

Communication Systems Available for Calibration

Schmid & Partner Engineering AG

July 7, 2023

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|---|-----------|-------|--------|
| 0 | - | CW | CW | 0.00 | -99.00 |
| 10010 | CAB | SAR Validation (Square, 100ms, 10ms) | Test | 10.00 | 1.67 |
| 10011 | CAC | UMTS-FDD (WCDMA) | WCDMA | 2.91 | -27.23 |
| 10012 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | -5.90 |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | -3.16 |
| 10021 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | 3.63 |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | 3.80 |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.56 | 1.15 |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | 3.75 |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | 1.23 |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.80 | -0.67 |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | -2.05 |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | -0.52 |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 5.30 | 1.02 |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | -2.66 |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1.16 | -3.98 |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | 0.90 |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | Bluetooth | 4.53 | -2.69 |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | -3.99 |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | 0.89 |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | -2.68 |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | -3.99 |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | -19.77 |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | 0.86 |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | -99.00 |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | 7.03 |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | 4.66 |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | 3.10 |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6.52 | -1.82 |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | -5.17 |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | -3.37 |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | -2.02 |
| 10062 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | -5.82 |
| 10063 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | -5.14 |
| 10064 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | -4.67 |
| 10065 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | -4.00 |
| 10066 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | -3.55 |
| 10067 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | -3.20 |
| 10068 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | -3.16 |
| 10069 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | WLAN | 10.56 | -3.15 |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | -2.40 |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.62 | -1.88 |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | -1.22 |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | WLAN | 10.30 | -0.80 |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | -0.29 |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | 0.02 |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | WLAN | 11.00 | 0.12 |
| 10081 | CAB | CDMA2000 (1xRTT, RC3) | CDMA2000 | 3.97 | -19.71 |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | -2.91 |
| 10084 | DAC | FSE MRI sequence (pi Sinc, 1ms, 0.25 ms) | MRI | 9.48 | -99.00 |
| 10089 | CAC | MRI (Square, 1ms, 0.4ms) | MRI | 3.98 | -99.00 |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6.56 | 1.81 |
| 10091 | CAC | MTS (2pi Sinc, 1ms, 0.4ms) | MRI | 10.22 | -99.00 |
| 10093 | CAC | MRI (Square, 10ms, 0.4ms) | MRI | 13.98 | -99.00 |
| 10097 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | -20.75 |
| 10098 | CAC | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | -20.75 |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | 1.88 |
| 10100 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | -23.48 |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | -17.86 |
| 10102 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | -17.05 |
| 10103 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | -1.64 |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | -1.66 |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.01 | -1.67 |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | -21.57 |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | -16.87 |

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|--|---------|-------|--------|
| 10110 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-FDD | 5.75 | -23.39 |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.44 | -16.35 |
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.59 | -16.34 |
| 10113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | -15.98 |
| 10114 | CAE | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | -17.24 |
| 10115 | CAE | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | -17.11 |
| 10116 | CAE | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN | 8.15 | -17.09 |
| 10117 | CAE | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | -17.16 |
| 10118 | CAE | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | WLAN | 8.59 | -17.09 |
| 10119 | CAE | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | WLAN | 8.13 | -17.00 |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | -19.37 |
| 10141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | -19.44 |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | -22.36 |
| 10143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | -14.75 |
| 10144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | -15.02 |
| 10145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | -17.39 |
| 10146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | -13.60 |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | -13.90 |
| 10149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | -16.87 |
| 10150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | -16.33 |
| 10151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | -1.64 |
| 10152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | -1.66 |
| 10153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | -1.66 |
| 10154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | -23.42 |
| 10155 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | -16.36 |
| 10156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | -21.71 |
| 10157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | -15.78 |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | -15.99 |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | -14.49 |
| 10160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FDD | 5.82 | -17.95 |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | -17.54 |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.58 | -17.63 |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | -18.10 |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | -12.15 |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | -12.10 |
| 10169 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD | 5.73 | -15.63 |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 6.52 | -9.76 |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.49 | -9.93 |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-TDD | 9.21 | -1.62 |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | -1.44 |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | -1.54 |
| 10175 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | -15.63 |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | -9.76 |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | -15.63 |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | -9.76 |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | -9.93 |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-FDD | 6.50 | -9.93 |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.73 | -15.63 |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | -9.76 |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.50 | -9.93 |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | -15.62 |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 6.51 | -9.76 |
| 10186 | AAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | -9.93 |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | -15.62 |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | -9.76 |
| 10189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | -9.93 |
| 10190 | CAC | MRI (Square, 100ms, 5ms) | MRI | 13.01 | -99.00 |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | -15.80 |
| 10194 | CAE | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | -16.17 |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | -15.73 |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | -16.16 |
| 10197 | CAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | -16.43 |
| 10198 | CAE | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | -15.98 |
| 10199 | DAC | MRI (Square, 5ms, 2.5ms) | MRI | 3.01 | -99.00 |
| 10219 | CAE | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | -15.94 |
| 10220 | CAE | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | -16.33 |
| 10221 | CAE | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | -16.16 |
| 10222 | CAE | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | -17.00 |
| 10223 | CAE | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | -17.20 |
| 10224 | CAE | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | WLAN | 8.08 | -17.01 |
| 10225 | CAC | UMTS-FDD (HSPA+) | WCDMA | 5.97 | -20.39 |
| 10226 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | -1.44 |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | -1.54 |
| 10228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | -1.62 |
| 10229 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | -1.44 |
| 10230 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | -1.54 |
| 10231 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9.19 | -1.62 |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9.48 | -1.44 |
| 10233 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | -1.54 |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | -1.62 |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | -1.44 |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | -1.54 |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | -1.62 |

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|---|----------|-------|--------|
| 10238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | -1.44 |
| 10239 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | -1.54 |
| 10240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | -1.62 |
| 10241 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | -1.58 |
| 10242 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | -1.57 |
| 10243 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.46 | -1.65 |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | -1.65 |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | -1.68 |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | -1.65 |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | -1.67 |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | -1.66 |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TDD | 9.29 | -1.64 |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | -1.65 |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | -1.67 |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9.24 | -1.64 |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TDD | 9.90 | -1.67 |
| 10254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.14 | -1.67 |
| 10255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | -1.64 |
| 10256 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.96 | -1.65 |
| 10257 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | -1.64 |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.34 | -1.65 |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TDD | 9.98 | -1.65 |
| 10260 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9.97 | -1.65 |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | -1.64 |
| 10262 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.83 | -1.65 |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.16 | -1.67 |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | -1.65 |
| 10265 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | -1.66 |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.07 | -1.66 |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9.30 | -1.64 |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | -1.67 |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.13 | -1.69 |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9.58 | -1.65 |
| 10272 | CAC | MRI (Square, 20ms, 1.0ms) | MRI | 13.01 | -99.00 |
| 10274 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | -24.48 |
| 10275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 3.96 | -26.26 |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | 3.54 |
| 10278 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5) | PHS | 11.81 | 3.36 |
| 10279 | CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38) | PHS | 12.18 | 3.25 |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | -19.47 |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | -19.70 |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.39 | -19.75 |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | -19.43 |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | 3.26 |
| 10297 | AAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.81 | -21.56 |
| 10298 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FDD | 5.72 | -20.24 |
| 10299 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.39 | -14.38 |
| 10300 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | -13.14 |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | WiMAX | 12.03 | -1.38 |
| 10302 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | WiMAX | 12.57 | -0.84 |
| 10303 | AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 12.52 | -0.53 |
| 10304 | AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | WiMAX | 11.86 | -1.39 |
| 10305 | AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) | WiMAX | 15.24 | 1.74 |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols) | WiMAX | 14.67 | 0.91 |
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols) | WiMAX | 14.49 | 0.89 |
| 10308 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | WiMAX | 14.46 | 0.91 |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | WiMAX | 14.58 | 0.90 |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) | WiMAX | 14.57 | 0.89 |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | -20.11 |
| 10313 | AAA | iDEN 1:3 | iDEN | 10.51 | 1.15 |
| 10314 | AAA | iDEN 1:6 | iDEN | 13.48 | 4.03 |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | WLAN | 1.71 | -6.80 |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | -9.82 |
| 10317 | AAE | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | -9.82 |
| 10400 | AAF | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.37 | -17.01 |
| 10401 | AAF | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.60 | -15.53 |
| 10402 | AAF | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.53 | -28.95 |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | -17.67 |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | -18.50 |
| 10405 | AAC | MRI (Square, 1ms, 0.5ms) | MRI | 3.01 | -0.87 |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | -16.62 |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | LTE-TDD | 7.82 | -3.41 |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | WLAN | 1.54 | -17.55 |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | -18.74 |
| 10417 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | -18.74 |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble) | WLAN | 8.14 | -17.11 |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | WLAN | 8.19 | -18.31 |
| 10421 | AAC | FSE MRI sequence (pi Sinc, 10ms, 2.5 ms) | MRI | 9.48 | 1.87 |
| 10422 | AAD | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | -14.20 |
| 10423 | AAD | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | -13.60 |
| 10424 | AAD | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | -13.84 |
| 10425 | AAD | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | -13.52 |
| 10426 | AAD | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | WLAN | 8.45 | -13.71 |

| UID | Rev | Name | Group | PAR | MIF |
|--------|-----|--|----------|-------|--------|
| 10427 | AAD | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | -13.44 |
| 10430 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | -16.24 |
| 10431 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8.38 | -17.66 |
| 10432 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | LTE-FDD | 8.34 | -19.05 |
| 10433 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | LTE-FDD | 8.34 | -19.83 |
| 10434 | AAB | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | -16.44 |
| 10435 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | -13.47 |
| 10448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.53 | -14.92 |
| 10449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.51 | -16.22 |
| 10450 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | -17.72 |
| 10451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | -12.93 |
| 10452 | AAC | MRI (Square, 5ms, 1ms) | MRI | 6.99 | 1.54 |
| 10453 | AAE | Validation (Square, 10ms, 1ms) | Test | 10.00 | 3.94 |
| 10454 | AAC | MRI (Square, 10ms, 3ms) | MRI | 5.23 | -1.39 |
| 10455 | AAC | MRI (Square, 50ms, 10ms) | MRI | 6.99 | -1.16 |
| 10456* | AAD | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.63 | -14.83 |
| 10457 | AAB | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | -21.09 |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | -18.92 |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | -19.19 |
| 10460 | AAB | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | -25.43 |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.30 | -3.17 |
| 10463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.56 | -3.31 |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | -3.18 |
| 10466 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | -3.31 |
| 10467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10468 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | -3.18 |
| 10469 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.56 | -3.31 |
| 10470 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10471 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | -3.17 |
| 10472 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | -3.31 |
| 10473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | -3.41 |
| 10474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | -3.17 |
| 10475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | -3.31 |
| 10476 | AAC | MRI (Custom, 600us, 2.7ms) | MRI | 12.10 | -6.13 |
| 10477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | -3.17 |
| 10478 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | -3.31 |
| 10479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | -3.41 |
| 10480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.18 | -3.37 |
| 10481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45 | -3.31 |
| 10482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.71 | -3.40 |
| 10483 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.39 | -3.46 |
| 10484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.47 | -3.43 |
| 10485 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.59 | -3.40 |
| 10486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.38 | -3.46 |
| 10487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.60 | -3.33 |
| 10488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.70 | -3.40 |
| 10489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | -3.43 |
| 10490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | -3.41 |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | -3.42 |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.41 | -3.43 |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | -3.43 |
| 10494 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | -3.39 |
| 10495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.37 | -3.41 |
| 10496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | -3.43 |
| 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.67 | -3.43 |
| 10498 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.40 | -3.46 |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.68 | -3.43 |
| 10500 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.67 | -3.40 |
| 10501 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.44 | -3.43 |
| 10502 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.52 | -3.42 |
| 10503 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.72 | -3.40 |
| 10504 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | -3.43 |
| 10505 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | -3.41 |
| 10506 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | -3.40 |
| 10507 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.36 | -3.41 |
| 10508 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | -3.43 |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.99 | -3.42 |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.49 | -3.43 |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.51 | -3.45 |
| 10512 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | -3.40 |
| 10513 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.42 | -3.42 |
| 10514 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45 | -3.42 |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | WLAN | 1.58 | -12.56 |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | WLAN | 1.57 | -12.52 |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | WLAN | 1.58 | -13.24 |
| 10518 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.23 | -15.39 |
| 10519 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.39 | -16.70 |
| 10520 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.12 | -18.76 |
| 10521 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 7.97 | -23.13 |
| 10522 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.45 | -22.02 |

| UID | Rev | Name | Group | PAR | MIF |
|--------|-----|---|-------|------|--------|
| 10523 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.08 | -24.22 |
| 10524 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.27 | -29.35 |
| 10525 | AAD | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) | WLAN | 8.36 | -12.23 |
| 10526 | AAD | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) | WLAN | 8.42 | -13.77 |
| 10527 | AAD | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) | WLAN | 8.21 | -14.89 |
| 10528 | AAD | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) | WLAN | 8.36 | -15.25 |
| 10529 | AAD | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) | WLAN | 8.36 | -15.25 |
| 10531 | AAD | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) | WLAN | 8.43 | -18.44 |
| 10532 | AAD | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | -18.59 |
| 10533 | AAD | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) | WLAN | 8.38 | -20.10 |
| 10534 | AAD | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle) | WLAN | 8.45 | -11.92 |
| 10535 | AAD | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle) | WLAN | 8.45 | -13.12 |
| 10536 | AAD | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) | WLAN | 8.32 | -13.53 |
| 10537 | AAD | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | -13.52 |
| 10538 | AAD | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle) | WLAN | 8.54 | -14.39 |
| 10540 | AAD | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle) | WLAN | 8.39 | -15.33 |
| 10541 | AAD | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle) | WLAN | 8.46 | -14.92 |
| 10542 | AAD | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | -14.56 |
| 10543 | AAD | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle) | WLAN | 8.65 | -15.76 |
| 10544 | AAD | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle) | WLAN | 8.47 | -13.78 |
| 10545 | AAD | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | -14.73 |
| 10546 | AAD | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle) | WLAN | 8.35 | -15.59 |
| 10547 | AAD | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle) | WLAN | 8.49 | -16.92 |
| 10548 | AAD | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle) | WLAN | 8.37 | -18.67 |
| 10550 | AAD | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle) | WLAN | 8.39 | -19.70 |
| 10551 | AAD | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle) | WLAN | 8.50 | -19.55 |
| 10552 | AAD | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle) | WLAN | 8.42 | -21.54 |
| 10553 | AAD | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle) | WLAN | 8.45 | -23.01 |
| 10554* | AAD | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | WLAN | 8.48 | -12.12 |
| 10555* | AAD | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | -13.15 |
| 10556* | AAD | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | WLAN | 8.50 | -13.55 |
| 10557* | AAD | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | WLAN | 8.52 | -13.89 |
| 10558* | AAD | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle) | WLAN | 8.61 | -14.15 |
| 10560* | AAD | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle) | WLAN | 8.73 | -14.69 |
| 10561* | AAD | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) | WLAN | 8.56 | -15.13 |
| 10562* | AAD | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | WLAN | 8.69 | -15.04 |
| 10563* | AAD | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle) | WLAN | 8.77 | -15.40 |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.25 | -15.41 |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.45 | -16.70 |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.13 | -18.78 |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | -23.09 |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.37 | -22.04 |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.10 | -24.25 |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.30 | -29.31 |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | -5.62 |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | -5.53 |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | WLAN | 1.98 | -5.73 |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | WLAN | 1.98 | -6.42 |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | -6.10 |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | -6.64 |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | -7.19 |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | -8.19 |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | -9.30 |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | -11.10 |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | -12.77 |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | -13.22 |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | -6.10 |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | -6.64 |
| 10585 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | -7.19 |
| 10586 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | -8.19 |
| 10587 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | -9.30 |
| 10588 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | -11.10 |
| 10589 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | -12.77 |
| 10590 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | -13.22 |
| 10591 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | WLAN | 8.63 | -5.59 |
| 10592 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | -5.61 |
| 10593 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | -5.84 |
| 10594 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | -6.17 |
| 10595 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | WLAN | 8.74 | -6.72 |
| 10596 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | WLAN | 8.71 | -7.25 |
| 10597 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | WLAN | 8.72 | -7.54 |
| 10598 | AAD | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | WLAN | 8.50 | -7.86 |
| 10599 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | WLAN | 8.79 | -5.59 |
| 10600 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | -6.06 |
| 10601 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | -6.59 |
| 10602 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | -7.17 |
| 10603 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | WLAN | 9.03 | -8.03 |
| 10604 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | WLAN | 8.76 | -8.65 |
| 10605 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | -9.23 |
| 10606 | AAD | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | -9.43 |
| 10607 | AAD | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | WLAN | 8.64 | -5.60 |
| 10608 | AAD | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | WLAN | 8.77 | -5.62 |
| 10609 | AAD | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | -5.85 |

| UID | Rev | Name | Group | PAR | MIF |
|--------|-----|--|-----------|-------|--------|
| 10610 | AAD | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | -6.15 |
| 10611 | AAD | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | -6.70 |
| 10612 | AAD | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | -7.25 |
| 10613 | AAD | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | WLAN | 8.94 | -7.58 |
| 10614 | AAD | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | WLAN | 8.59 | -7.91 |
| 10615 | AAD | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | -8.41 |
| 10616 | AAD | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | -5.57 |
| 10617 | AAD | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | -5.59 |
| 10618 | AAD | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | -5.78 |
| 10619 | AAD | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | -6.02 |
| 10620 | AAD | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | WLAN | 8.87 | -6.57 |
| 10621 | AAD | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | -6.92 |
| 10622 | AAD | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | -7.33 |
| 10623 | AAD | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | -7.44 |
| 10624 | AAD | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | -7.73 |
| 10625 | AAD | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle) | WLAN | 8.96 | -8.15 |
| 10626 | AAD | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | -5.64 |
| 10627 | AAD | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | -6.22 |
| 10628 | AAD | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | -6.84 |
| 10629 | AAD | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | -7.44 |
| 10630 | AAD | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle) | WLAN | 8.72 | -8.48 |
| 10631 | AAD | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | -9.17 |
| 10632 | AAD | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | -9.64 |
| 10633 | AAD | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle) | WLAN | 8.83 | -9.97 |
| 10634 | AAD | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) | WLAN | 8.80 | -10.92 |
| 10635 | AAD | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | -11.43 |
| 10636* | AAE | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | -5.56 |
| 10637* | AAE | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | -5.61 |
| 10638* | AAE | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | -5.84 |
| 10639* | AAE | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | -6.13 |
| 10640* | AAE | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle) | WLAN | 8.98 | -6.67 |
| 10641* | AAE | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | WLAN | 9.06 | -7.18 |
| 10642* | AAE | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle) | WLAN | 9.06 | -7.38 |
| 10643* | AAE | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | -7.65 |
| 10644* | AAE | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | -7.99 |
| 10645* | AAE | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | WLAN | 9.11 | -8.26 |
| 10646 | AAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | 1.50 |
| 10647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | 1.50 |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | -19.86 |
| 10652 | AAF | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | -5.16 |
| 10653 | AAF | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | -5.10 |
| 10654 | AAE | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | -5.07 |
| 10655 | AAF | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | -5.05 |
| 10656 | AAB | 27.12MHz Sinewave, 4.2% Duty Cycle | MRI | 16.77 | 2.54 |
| 10657 | AAA | Pulse, 42us on, 1ms period | MRI | 13.77 | 3.05 |
| 10658 | AAB | Pulse Waveform (200Hz, 10%) | Test | 10.00 | 4.05 |
| 10659 | AAB | Pulse Waveform (200Hz, 20%) | Test | 6.99 | 1.53 |
| 10660 | AAB | Pulse Waveform (200Hz, 40%) | Test | 3.98 | -1.62 |
| 10661 | AAB | Pulse Waveform (200Hz, 60%) | Test | 2.22 | -3.39 |
| 10662 | AAB | Pulse Waveform (200Hz, 80%) | Test | 0.97 | -4.50 |
| 10663 | AAA | MITS (2pi Sinc, 2ms, 2ms) | MRI | 6.24 | 0.62 |
| 10664 | AAA | MITS (2pi Sinc, 2.4ms, 2.4ms) | MRI | 6.24 | 0.46 |
| 10665 | AAA | MITS (2pi Sinc, 2.6ms, 2.6ms) | MRI | 6.24 | 0.37 |
| 10666 | AAA | MITS (2pi Sinc, 2ms, 4370ms) | MRI | 26.02 | 11.61 |
| 10667 | AAA | MITS (2pi Sinc, 2ms, 600ms) | MRI | 24.11 | 20.22 |
| 10668 | AAA | MITS (2pi Sinc, 2ms, 150ms) | MRI | 24.67 | 16.70 |
| 10669 | AAA | MITS (8pi Sinc, 0.512ms, 4.2ms) | MRI | 21.11 | 6.78 |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | -1.94 |
| 10671 | AAC | IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle) | WLAN | 9.09 | -5.58 |
| 10672 | AAC | IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle) | WLAN | 8.57 | -5.66 |
| 10673 | AAC | IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle) | WLAN | 8.78 | -5.81 |
| 10674 | AAC | IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | -5.96 |
| 10675 | AAC | IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle) | WLAN | 8.90 | -5.78 |
| 10676 | AAC | IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | -5.82 |
| 10677 | AAC | IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle) | WLAN | 8.73 | -5.69 |
| 10678 | AAC | IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle) | WLAN | 8.78 | -5.65 |
| 10679 | AAC | IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle) | WLAN | 8.89 | -5.71 |
| 10680 | AAC | IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle) | WLAN | 8.80 | -5.73 |
| 10681 | AAC | IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle) | WLAN | 8.62 | -5.69 |
| 10682 | AAC | IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle) | WLAN | 8.83 | -5.72 |
| 10683 | AAC | IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | -20.98 |
| 10684 | AAC | IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle) | WLAN | 8.26 | -20.26 |
| 10685 | AAC | IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | -20.96 |
| 10686 | AAC | IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle) | WLAN | 8.28 | -18.54 |
| 10687 | AAC | IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle) | WLAN | 8.45 | -20.41 |
| 10688 | AAC | IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle) | WLAN | 8.29 | -19.53 |
| 10689 | AAC | IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle) | WLAN | 8.55 | -18.10 |
| 10690 | AAC | IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | -18.81 |
| 10691 | AAC | IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle) | WLAN | 8.25 | -17.97 |
| 10692 | AAC | IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | -19.92 |
| 10693 | AAC | IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle) | WLAN | 8.25 | -20.11 |
| 10694 | AAC | IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle) | WLAN | 8.57 | -18.23 |
| 10695 | AAC | IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle) | WLAN | 8.78 | -6.01 |

| UID | Rev | Name | Group | PAR | MIF |
|--------|-----|--|---------------|------|--------|
| 10696 | AAC | IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle) | WLAN | 8.91 | -6.77 |
| 10697 | AAC | IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle) | WLAN | 8.61 | -7.05 |
| 10698 | AAC | IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle) | WLAN | 8.89 | -7.10 |
| 10699 | AAC | IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle) | WLAN | 8.82 | -6.03 |
| 10700 | AAC | IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle) | WLAN | 8.73 | -6.46 |
| 10701 | AAC | IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle) | WLAN | 8.86 | -6.51 |
| 10702 | AAC | IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle) | WLAN | 8.70 | -6.29 |
| 10703 | AAC | IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | -6.15 |
| 10704 | AAC | IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle) | WLAN | 8.56 | -6.15 |
| 10705 | AAC | IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle) | WLAN | 8.69 | -6.16 |
| 10706 | AAC | IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle) | WLAN | 8.66 | -6.18 |
| 10707 | AAC | IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle) | WLAN | 8.32 | -20.01 |
| 10708 | AAC | IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | -18.61 |
| 10709 | AAC | IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | -18.46 |
| 10710 | AAC | IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle) | WLAN | 8.29 | -18.54 |
| 10711 | AAC | IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle) | WLAN | 8.39 | -19.40 |
| 10712 | AAC | IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle) | WLAN | 8.67 | -17.58 |
| 10713 | AAC | IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle) | WLAN | 8.33 | -19.24 |
| 10714 | AAC | IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle) | WLAN | 8.26 | -19.01 |
| 10715 | AAC | IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle) | WLAN | 8.45 | -19.04 |
| 10716 | AAC | IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle) | WLAN | 8.30 | -17.95 |
| 10717 | AAC | IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle) | WLAN | 8.48 | -18.12 |
| 10718 | AAC | IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle) | WLAN | 8.24 | -17.88 |
| 10719 | AAC | IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle) | WLAN | 8.81 | -6.04 |
| 10720 | AAC | IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle) | WLAN | 8.87 | -6.84 |
| 10721 | AAC | IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle) | WLAN | 8.76 | -7.16 |
| 10722 | AAC | IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle) | WLAN | 8.55 | -7.57 |
| 10723 | AAC | IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | -7.09 |
| 10724 | AAC | IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle) | WLAN | 8.90 | -7.57 |
| 10725 | AAC | IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | -7.16 |
| 10726 | AAC | IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle) | WLAN | 8.72 | -7.10 |
| 10727 | AAC | IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle) | WLAN | 8.66 | -7.09 |
| 10728 | AAC | IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle) | WLAN | 8.65 | -7.19 |
| 10729 | AAC | IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle) | WLAN | 8.64 | -7.17 |
| 10730 | AAC | IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle) | WLAN | 8.67 | -7.12 |
| 10731 | AAC | IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | -23.60 |
| 10732 | AAC | IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle) | WLAN | 8.46 | -23.45 |
| 10733 | AAC | IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle) | WLAN | 8.40 | -25.61 |
| 10734 | AAC | IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle) | WLAN | 8.25 | -26.92 |
| 10735 | AAC | IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle) | WLAN | 8.33 | -24.09 |
| 10736 | AAC | IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle) | WLAN | 8.27 | -20.98 |
| 10737 | AAC | IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle) | WLAN | 8.36 | -24.90 |
| 10738 | AAC | IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle) | WLAN | 8.42 | -23.02 |
| 10739 | AAC | IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle) | WLAN | 8.29 | -23.68 |
| 10740 | AAC | IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle) | WLAN | 8.48 | -22.10 |
| 10741 | AAC | IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle) | WLAN | 8.40 | -22.36 |
| 10742 | AAC | IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle) | WLAN | 8.43 | -25.24 |
| 10743* | AAC | IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle) | WLAN | 8.94 | -6.60 |
| 10744* | AAC | IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) | WLAN | 9.16 | -7.44 |
| 10745* | AAC | IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle) | WLAN | 8.93 | -7.22 |
| 10746* | AAC | IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle) | WLAN | 9.11 | -7.46 |
| 10747* | AAC | IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle) | WLAN | 9.04 | -7.22 |
| 10748* | AAC | IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle) | WLAN | 8.93 | -7.60 |
| 10749* | AAC | IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle) | WLAN | 8.90 | -7.70 |
| 10750* | AAC | IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle) | WLAN | 8.79 | -7.75 |
| 10751* | AAC | IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | -7.93 |
| 10752* | AAC | IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | -7.94 |
| 10753* | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle) | WLAN | 9.00 | -7.71 |
| 10754* | AAC | IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) | WLAN | 8.94 | -7.80 |
| 10755* | AAC | IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle) | WLAN | 8.64 | -17.91 |
| 10756* | AAC | IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle) | WLAN | 8.77 | -17.43 |
| 10757* | AAC | IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle) | WLAN | 8.77 | -17.92 |
| 10758* | AAC | IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle) | WLAN | 8.69 | -17.45 |
| 10759* | AAC | IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle) | WLAN | 8.58 | -18.04 |
| 10760* | AAC | IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle) | WLAN | 8.49 | -17.18 |
| 10761* | AAC | IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle) | WLAN | 8.58 | -17.80 |
| 10762* | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle) | WLAN | 8.49 | -17.72 |
| 10763* | AAC | IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle) | WLAN | 8.53 | -17.00 |
| 10764* | AAC | IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle) | WLAN | 8.54 | -17.43 |
| 10765* | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle) | WLAN | 8.54 | -17.11 |
| 10766* | AAC | IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle) | WLAN | 8.51 | -16.98 |
| 10767 | AAG | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | -12.18 |
| 10768 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | -12.26 |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | -12.08 |
| 10770 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | -12.20 |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | -12.22 |
| 10772 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | -12.20 |
| 10773 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | -12.13 |
| 10774 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | -12.25 |
| 10775 | AAF | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | -18.51 |
| 10776 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | -19.01 |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | -19.80 |
| 10778 | AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | -20.71 |

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|--|---------------|------|--------|
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | -20.99 |
| 10780 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | -21.75 |
| 10781 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | -22.40 |
| 10782 | AAE | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.43 | -23.16 |
| 10783 | AAG | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | -18.84 |
| 10784 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | -20.70 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | -21.52 |
| 10786 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | -22.47 |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | -22.72 |
| 10788 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | -22.83 |
| 10789 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | -23.29 |
| 10790 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | -23.84 |
| 10791 | AAG | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | -14.39 |
| 10792 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | -14.47 |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.95 | -14.33 |
| 10794 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | -14.46 |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | -14.35 |
| 10796 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | -14.32 |
| 10797 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | -14.32 |
| 10798 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | -14.55 |
| 10799 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | -14.45 |
| 10801 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | -14.47 |
| 10802 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.87 | -14.43 |
| 10803 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | -14.38 |
| 10805 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | -19.83 |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.37 | -20.22 |
| 10809 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | -21.62 |
| 10810 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | -22.06 |
| 10812 | AAF | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | -24.16 |
| 10817 | AAG | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | -19.61 |
| 10818 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | -21.28 |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | -22.12 |
| 10820 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | -22.76 |
| 10821 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | -22.93 |
| 10822 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | -23.54 |
| 10823 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.36 | -24.51 |
| 10824 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.39 | -24.80 |
| 10825 | AAF | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | -25.06 |
| 10827 | AAF | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | -25.87 |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.43 | -26.53 |
| 10829 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | -26.60 |
| 10830 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | -16.74 |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.73 | -16.83 |
| 10832 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | -16.58 |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | -16.65 |
| 10834 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.75 | -16.48 |
| 10835 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | -16.85 |
| 10836 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | -16.56 |
| 10837 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | -16.85 |
| 10839 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | -16.71 |
| 10840 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.67 | -16.57 |
| 10841 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 | -16.46 |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.49 | -20.86 |
| 10844 | AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | -21.97 |
| 10846 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | -22.29 |
| 10854 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | -21.22 |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | -22.79 |
| 10856 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | -23.39 |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | -23.88 |
| 10858 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | -24.52 |
| 10859 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | -24.92 |
| 10860 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | -25.11 |
| 10861 | AAF | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.40 | -25.74 |
| 10863 | AAF | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | -26.63 |
| 10864 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | -27.49 |
| 10865 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | -26.96 |
| 10866 | AAF | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.69 |
| 10868 | AAF | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | -20.47 |
| 10869 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | -19.60 |
| 10870 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.86 | -28.74 |
| 10871 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 5.75 | -19.60 |
| 10872 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | -25.81 |
| 10873 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | -17.01 |
| 10874 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | -26.14 |
| 10875 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | -18.27 |
| 10876 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | -27.31 |
| 10877 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | -16.50 |
| 10878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | -26.23 |
| 10879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.12 | -17.11 |
| 10880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | -25.83 |
| 10881 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | -19.60 |
| 10882 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | -27.79 |
| 10883 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | -17.02 |

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|---|---------------|-------|--------|
| 10884 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | -24.59 |
| 10885 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | -17.01 |
| 10886 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | -24.53 |
| 10887 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | -18.54 |
| 10888 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | -25.78 |
| 10889 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | -16.37 |
| 10890 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | -23.93 |
| 10891 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.13 | -17.02 |
| 10892 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | -23.75 |
| 10893 | AAB | MIT5 (3pi Sinc, 400ms, 3ms) | MRI | 26.73 | 19.99 |
| 10894 | AAA | MIT5 (6pi Sinc, 3.69ms, 0.8ms) | MRI | 17.50 | 6.16 |
| 10895 | AAA | MIT5 (3pi Sinc, 100ms, 2ms) | MRI | 24.58 | 16.38 |
| 10896 | AAA | MRI (Square, 2ms, 0.8ms) | MRI | 3.98 | -0.27 |
| 10897 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | -16.67 |
| 10898 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | -16.68 |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | -16.68 |
| 10900 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10902 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10904 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.68 |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | -16.69 |
| 10907 | AAE | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.78 | -19.09 |
| 10908 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | -19.67 |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | -20.01 |
| 10910 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | -20.30 |
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | -20.40 |
| 10912 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.39 |
| 10913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.15 |
| 10914 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | -20.27 |
| 10915 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | -20.44 |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | -20.49 |
| 10917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | -20.29 |
| 10918 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | -20.12 |
| 10919 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | -20.43 |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | -20.38 |
| 10921 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.14 |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.82 | -20.26 |
| 10923 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.39 |
| 10924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.45 |
| 10925 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.95 | -20.23 |
| 10926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | -20.48 |
| 10927 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | -20.32 |
| 10928 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | -15.06 |
| 10929 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | -15.06 |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.52 | -15.06 |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | -15.06 |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | -15.06 |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | -15.06 |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | -15.07 |
| 10935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | -15.07 |
| 10936 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | -17.91 |
| 10937 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | -18.38 |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | -18.58 |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | -18.65 |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | -18.65 |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | -18.66 |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | -18.71 |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | -18.52 |
| 10944 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | -18.38 |
| 10945 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | -18.65 |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | -18.70 |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | -18.60 |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | -18.50 |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | -18.85 |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | -18.50 |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | -18.56 |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.25 | -16.10 |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.15 | -18.27 |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.23 | -20.40 |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.42 | -22.55 |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.14 | -16.37 |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.31 | -18.08 |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.61 | -20.42 |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.33 | -22.82 |
| 10960 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.32 | -4.24 |
| 10961 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.36 | -4.22 |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.40 | -4.22 |
| 10963 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.55 | -4.23 |
| 10964 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | -4.24 |
| 10965 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.37 | -4.23 |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.55 | -4.22 |

| UID | Rev | Name | Group | PAR | MIF |
|-------|-----|---|---------------|-------|--------|
| 10967 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.42 | -4.23 |
| 10968 | AAD | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | -4.23 |
| 10972 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 11.59 | -1.65 |
| 10973 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 9.06 | -1.64 |
| 10974 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) | 5G NR FR1 TDD | 10.28 | -3.48 |
| 10975 | AAA | MRI (RT Prot sat) | MRI | 14.37 | 6.97 |
| 10976 | AAA | MRI (RT Prot no sat) | MRI | 14.05 | 6.74 |
| 10977 | AAA | MRI (pi Sinc, 20ms, 2ms) | MRI | 16.24 | 8.47 |
| 10978 | AAA | ULLA BDR | ULLA | 1.16 | -3.98 |
| 10979 | AAA | ULLA HDR4 | ULLA | 8.58 | 0.89 |
| 10980 | AAA | ULLA HDR8 | ULLA | 10.32 | 2.43 |
| 10981 | AAA | ULLA HDRp4 | ULLA | 3.19 | -5.68 |
| 10982 | AAA | ULLA HDRp8 | ULLA | 3.43 | -5.57 |
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31 | -4.23 |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42 | -4.23 |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | -4.23 |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50 | -4.23 |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | -4.23 |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38 | -4.23 |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | -4.23 |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52 | -4.23 |
| 10991 | AAA | MRI (2pi Sinc, 5.1ms, 1.5232ms) | MRI | 11.49 | 4.25 |
| 10992 | AAA | MRI (2pi Sinc, 9.1ms, 3ms) | MRI | 12.77 | 5.27 |
| 10993 | AAA | MRI (pi Sinc, 6ms, 1.5232ms) | MRI | 9.41 | 2.51 |
| 10994 | AAA | Pulse Waveform (Square, 111.11ms, 10ms) | Test | 10.46 | 2.11 |
| 10995 | AAA | Pulse Waveform (Square, 125ms, 10ms) | Test | 10.97 | 2.57 |
| 10996 | AAA | Pulse Waveform (Square, 142.86ms, 10ms) | Test | 11.55 | 3.09 |
| 10997 | AAA | Pulse Waveform (Square, 166.67ms, 10ms) | Test | 12.22 | 3.67 |
| 10998 | AAA | Pulse Waveform (Square, 200ms, 10ms) | Test | 13.01 | 4.34 |
| 10999 | AAA | Pulse Waveform (Square, 250ms, 10ms) | Test | 13.98 | 5.13 |
| 11000 | AAA | Pulse Waveform (Square, 333.33ms, 10ms) | Test | 15.23 | 6.08 |
| 11001 | AAA | Pulse Waveform (Square, 500ms, 10ms) | Test | 16.99 | 7.27 |
| 11002 | AAA | Pulse Waveform (Square, 1000ms, 10ms) | Test | 20.00 | 8.74 |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24 | -3.11 |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73 | -3.53 |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.70 | -16.95 |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55 | -17.62 |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46 | -16.03 |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51 | -18.79 |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76 | -17.87 |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95 | -17.20 |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96 | -17.81 |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68 | -18.51 |
| 11013 | AAB | IEEE 802.11be (320MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | -31.11 |
| 11014 | AAB | IEEE 802.11be (320MHz, MCS2, 99pc duty cycle) | WLAN | 8.45 | -33.11 |
| 11015 | AAB | IEEE 802.11be (320MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | -30.71 |
| 11016 | AAB | IEEE 802.11be (320MHz, MCS4, 99pc duty cycle) | WLAN | 8.44 | -35.06 |
| 11017 | AAB | IEEE 802.11be (320MHz, MCS5, 99pc duty cycle) | WLAN | 8.41 | -34.74 |
| 11018 | AAB | IEEE 802.11be (320MHz, MCS6, 99pc duty cycle) | WLAN | 8.40 | -32.59 |
| 11019 | AAB | IEEE 802.11be (320MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | -32.74 |
| 11020 | AAB | IEEE 802.11be (320MHz, MCS8, 99pc duty cycle) | WLAN | 8.27 | -34.15 |
| 11021 | AAB | IEEE 802.11be (320MHz, MCS9, 99pc duty cycle) | WLAN | 8.46 | -34.43 |
| 11022 | AAB | IEEE 802.11be (320MHz, MCS10, 99pc duty cycle) | WLAN | 8.36 | -35.51 |
| 11023 | AAB | IEEE 802.11be (320MHz, MCS11, 99pc duty cycle) | WLAN | 8.09 | -43.91 |
| 11024 | AAB | IEEE 802.11be (320MHz, MCS12, 99pc duty cycle) | WLAN | 8.42 | -44.27 |
| 11025 | AAB | IEEE 802.11be (320MHz, MCS13, 99pc duty cycle) | WLAN | 8.37 | -38.58 |
| 11026 | AAB | IEEE 802.11be (320MHz, MCS0, 99pc duty cycle) | WLAN | 8.39 | -28.73 |
| 11027 | AAA | Pulse Waveform (Square, 20ms, 10ms) | MRI | 3.01 | -4.97 |
| 11028 | AAA | Pulse Waveform (Square, 50ms, 40ms) | MRI | 0.97 | -7.17 |

* Available only as part of SMC (Sensor Model Calibration) package

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| | |
|-------------------------|--|
| Name: | CW |
| Group: | CW |
| UID: | 0- |
| PAR: ¹ | 0.00 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | Generic Sample (CW) |
| Category: | Continous Waveform |
| Modulation: | Not applicable |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Continuous Waveform |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).

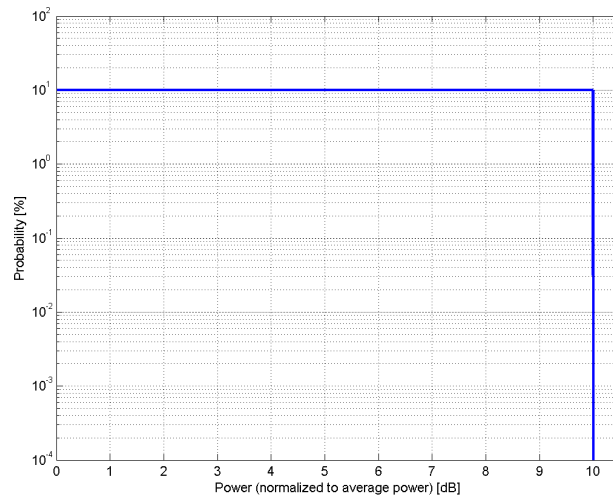
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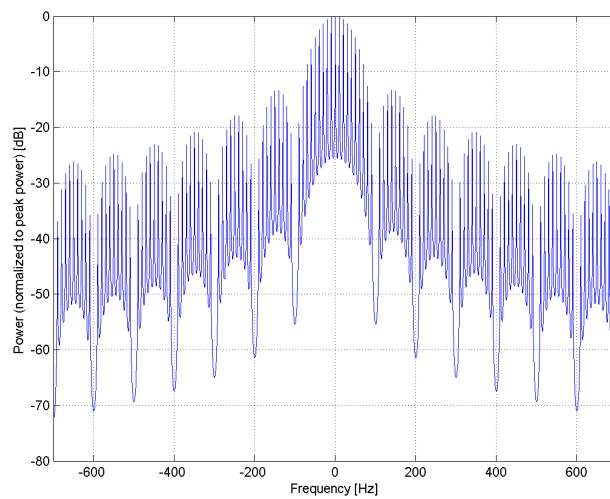
| | |
|-------------------------|--|
| Name: | SAR Validation (Square, 100ms, 10ms) |
| Group: | Test |
| UID: | 10010-CAB |
| PAR: ¹ | 10.00 dB |
| MIF: ² | 1.67 dB |
| Standard Reference: | IEEE 1528-2003, Chapter 8.3.6.d), IEC 62209-2, Chapter B.3.5.d |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | pulse-modulated signal duty factor 0.1 pulse repetition 10 Hz |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

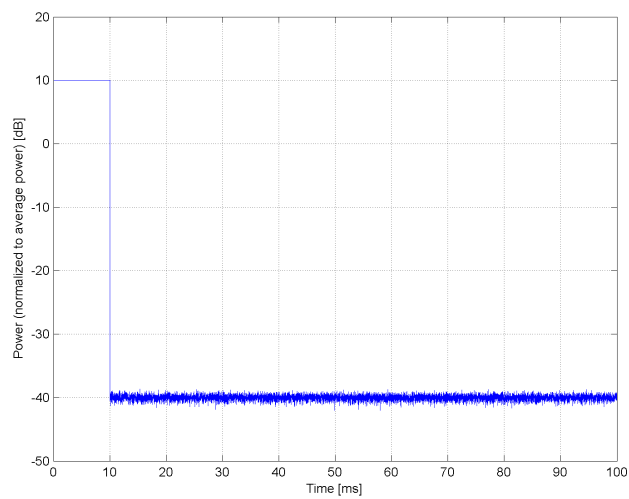
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



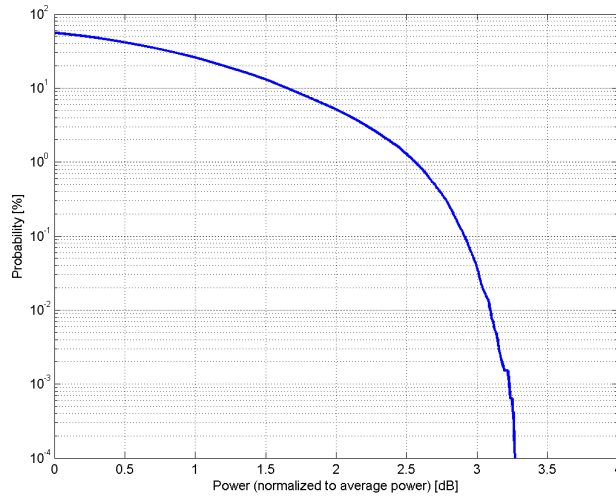
Time Domain

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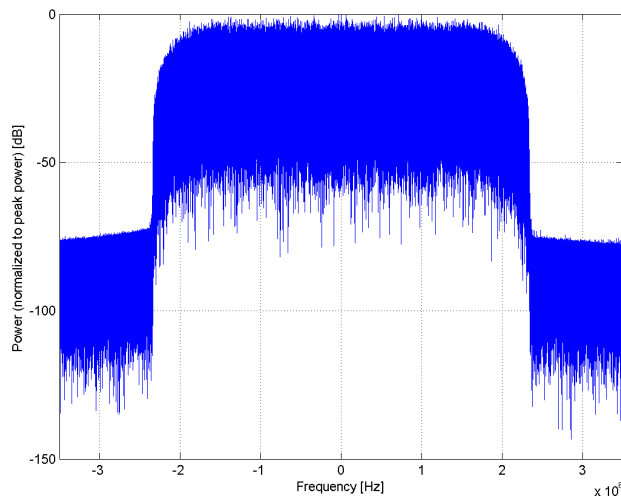
| | |
|-------------------------|---|
| Name: | UMTS-FDD (WCDMA) |
| Group: | WCDMA |
| UID: | 10011-CAC |
| PAR: ¹ | 2.91 dB |
| MIF: ² | -27.23 dB |
| Standard Reference: | 3GPP TS 25.141 Annex A FCC OET KDB 941225 D01 SAR test for 3G devices v02 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1452.9 MHz) Band 12 (698.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Dedicated Channel Type: RMC Bitrate: 12.2 kbps DPDCH: 60 kbps DPCCH: 15 kbps DPCCH/DPDCH power ratio: -5.46 dB |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

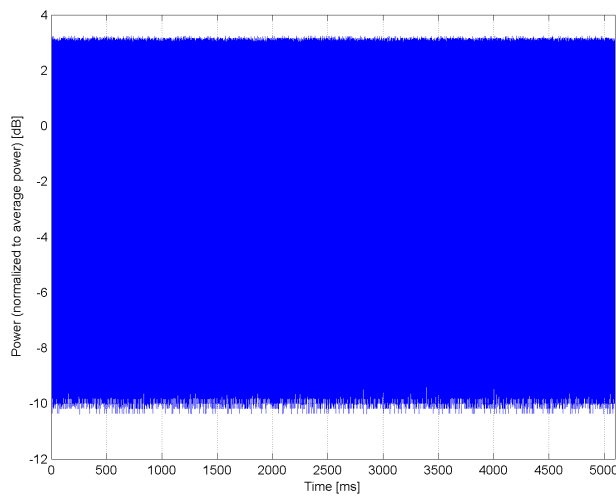
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



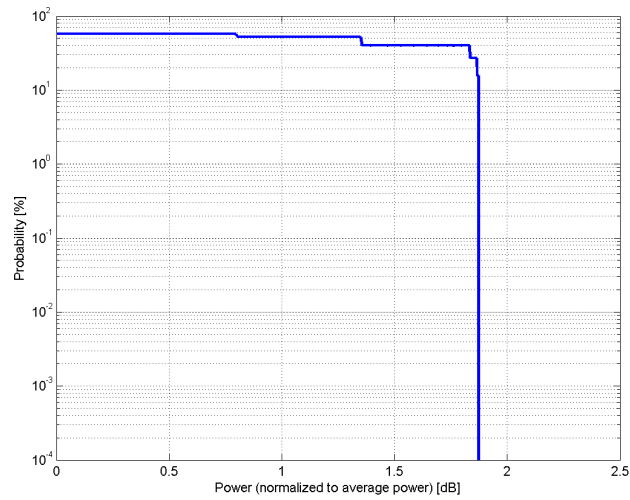
Time Domain

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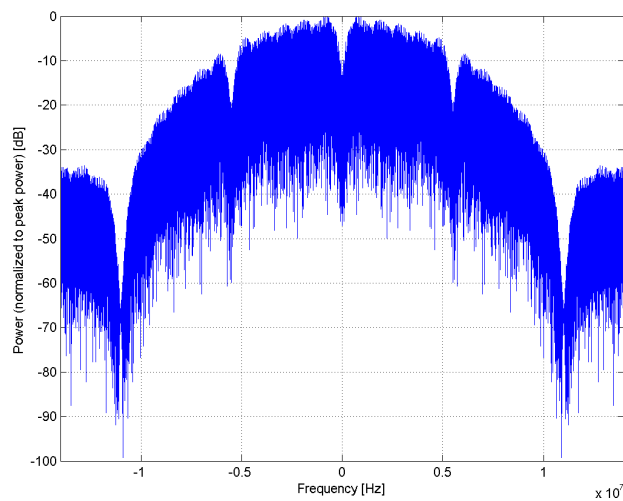
| | |
|-------------------------|---|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) |
| Group: | WLAN |
| UID: | 10012-CAB |
| PAR: ¹ | 1.87 dB |
| MIF: ² | -5.90 dB |
| Standard Reference: | IEEE 802.11b-1999 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | DBPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 1 Mbps Spreading, Coding: DSSS, 11 Chip Barker PPDU format: Long Preamble & Heading PSDU Length: 1024 PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 9.1 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

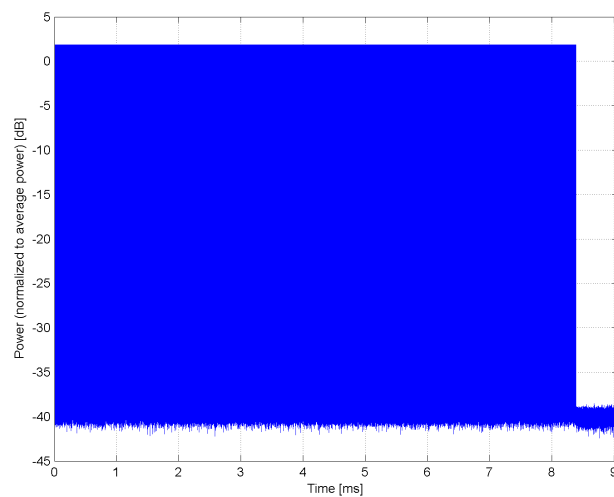
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



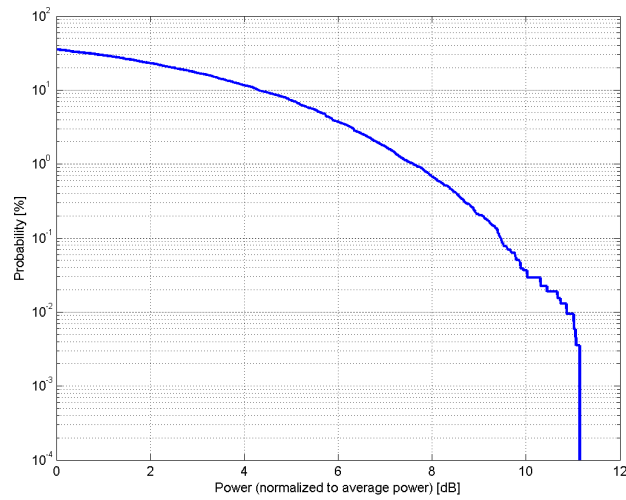
Time Domain

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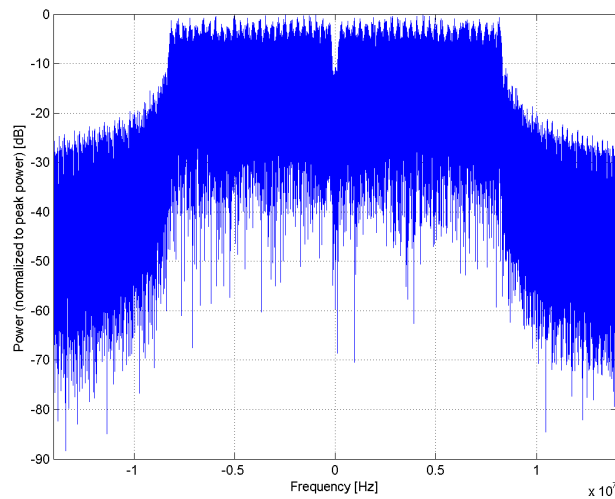
| | |
|-------------------------|---|
| Name: | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) |
| Group: | WLAN |
| UID: | 10013-CAB |
| PAR: ¹ | 9.46 dB |
| MIF: ² | -3.16 dB |
| Standard Reference: | IEEE 802.11g-2003 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 6 Mbps Coding Rate: 1/2 Coded bits per subcarrier: 1 Coded bits per OFDM symbol: 48 Data bits per OFDM symbol: 24 PSDU Length: 1000 Bytes PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 2.1 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

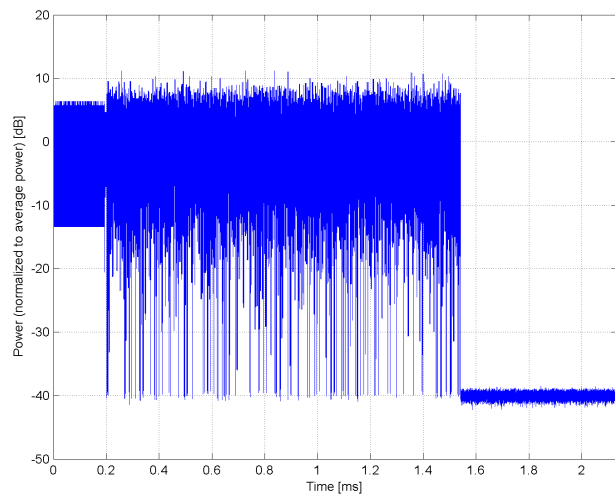
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



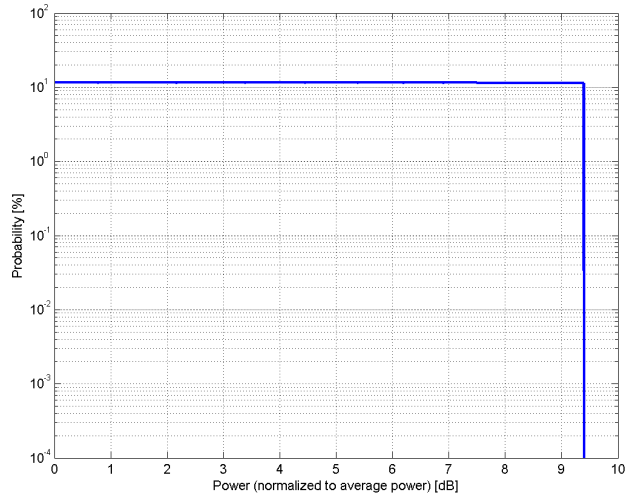
Time Domain

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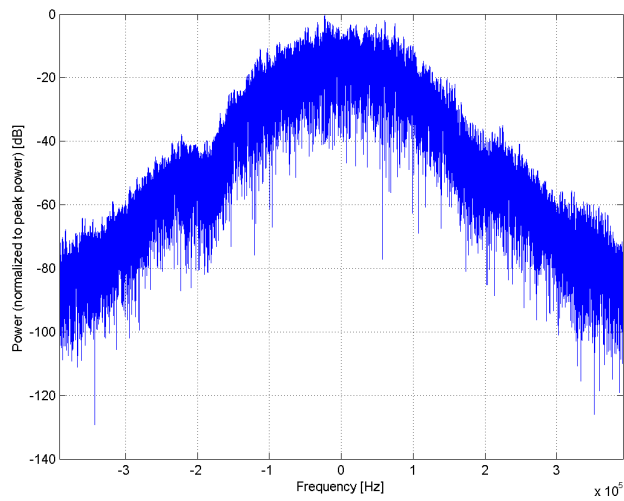
| | |
|-------------------------|--|
| Name: | GSM-FDD (TDMA, GMSK) |
| Group: | GSM |
| UID: | 10021-DAC |
| PAR: ¹ | 9.39 dB |
| MIF: ² | 3.63 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slot: TN0 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 120.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

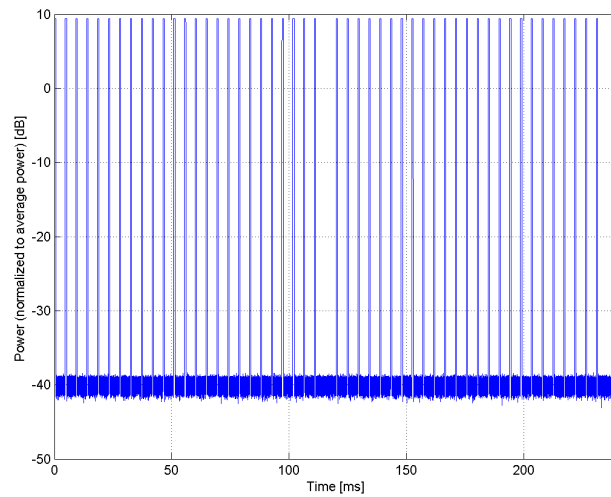
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



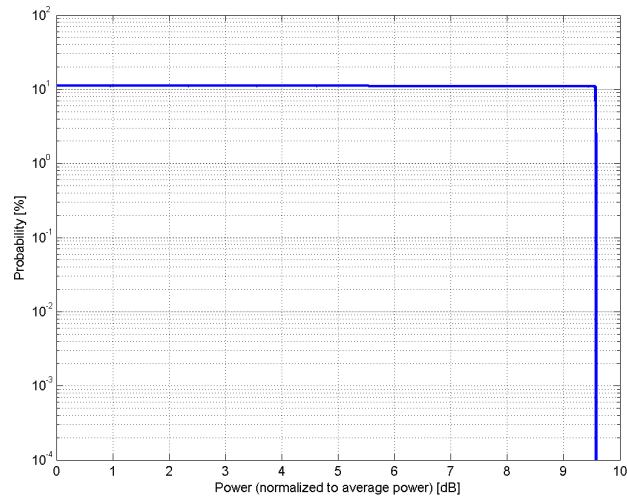
Time Domain

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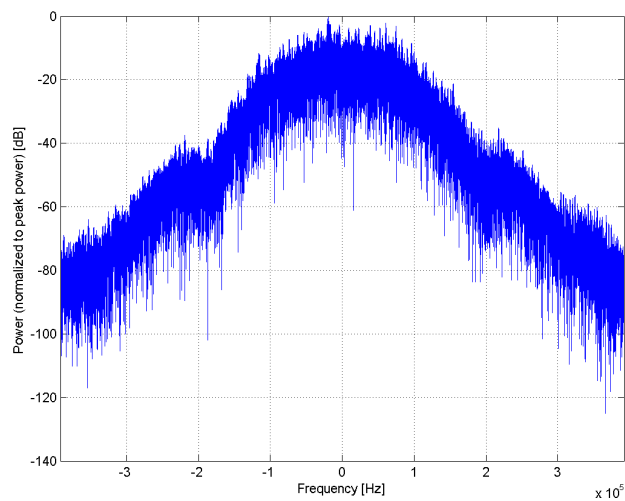
| | |
|-------------------------|--|
| Name: | GPRS-FDD (TDMA, GMSK, TN 0) |
| Group: | GSM |
| UID: | 10023-DAC |
| PAR: ¹ | 9.57 dB |
| MIF: ² | 3.80 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slot: TN0 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

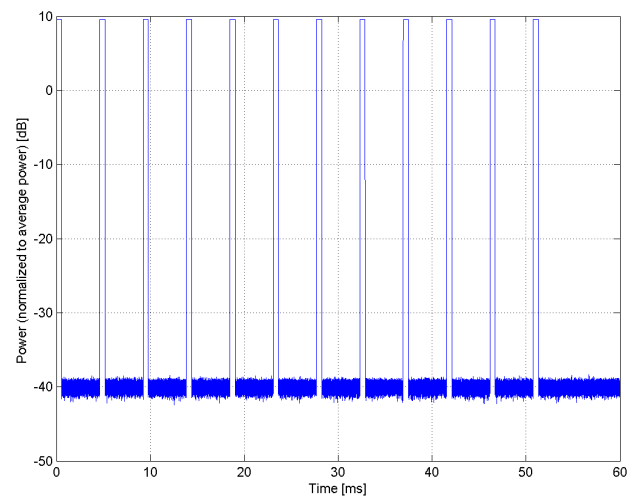
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



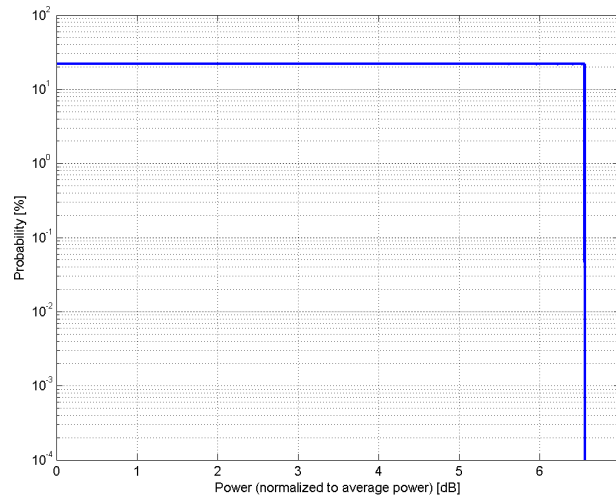
Time Domain

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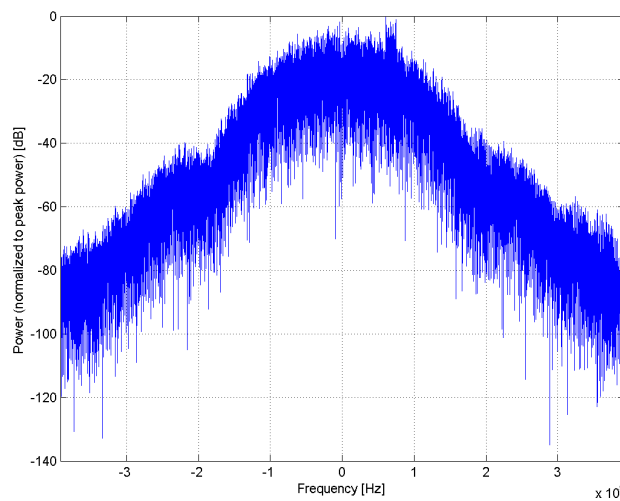
| | |
|-------------------------|--|
| Name: | GPRS-FDD (TDMA, GMSK, TN 0-1) |
| Group: | GSM |
| UID: | 10024-DAC |
| PAR: ¹ | 6.56 dB |
| MIF: ² | 1.15 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN1 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

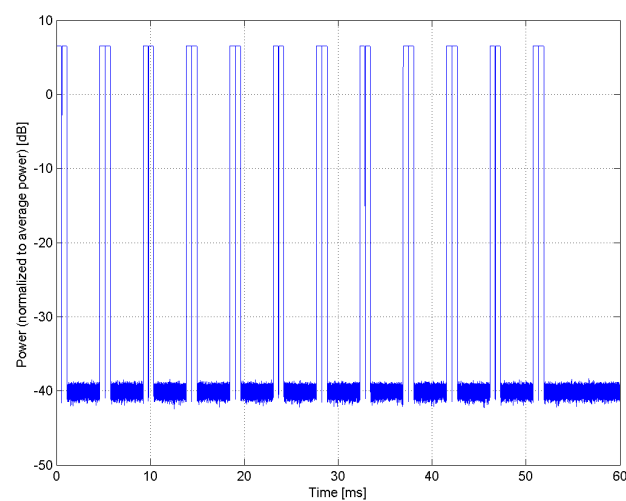
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



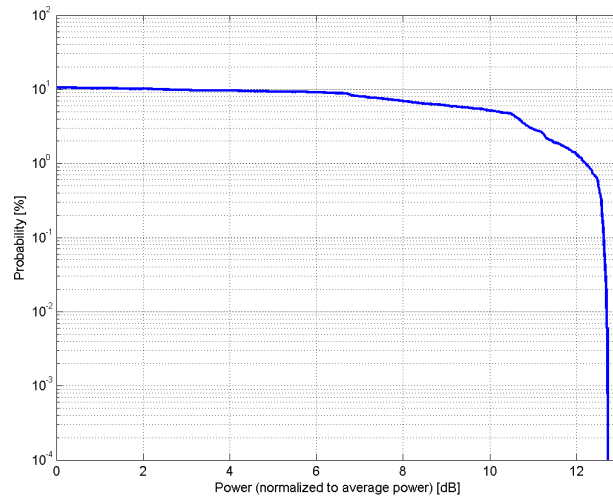
Time Domain

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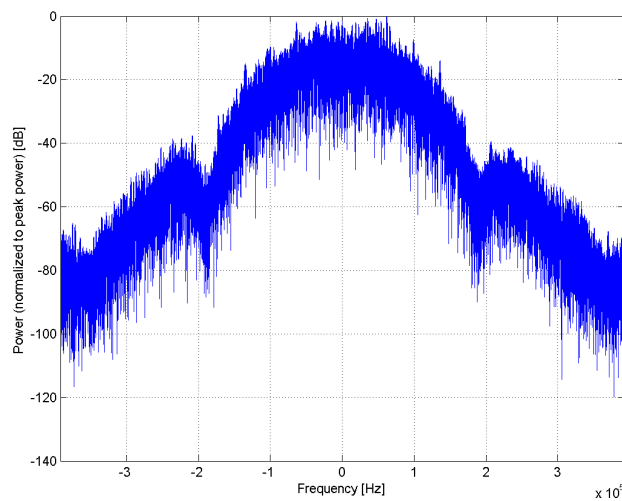
| | |
|-------------------------|--|
| Name: | EDGE-FDD (TDMA, 8PSK, TN 0) |
| Group: | GSM |
| UID: | 10025-DAC |
| PAR: ¹ | 12.62 dB |
| MIF: ² | 3.75 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | 8PSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slot: TN0 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for 8PSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

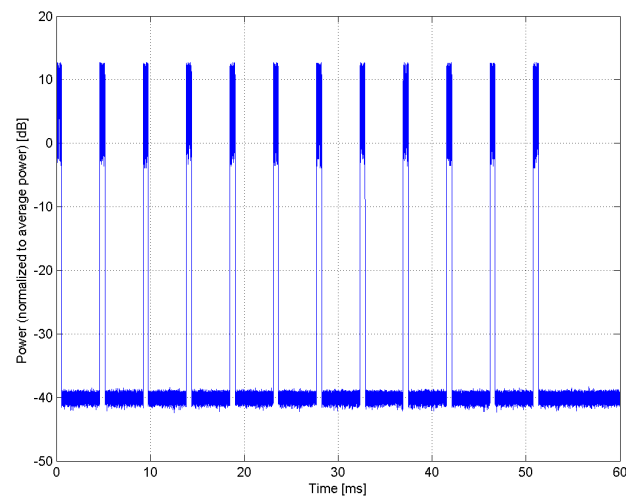
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



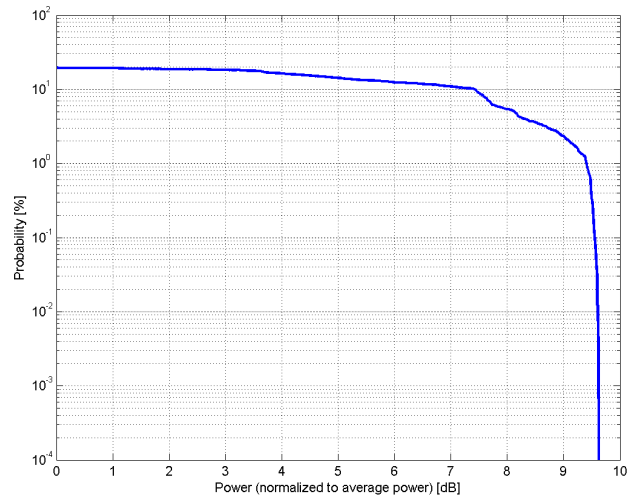
Time Domain

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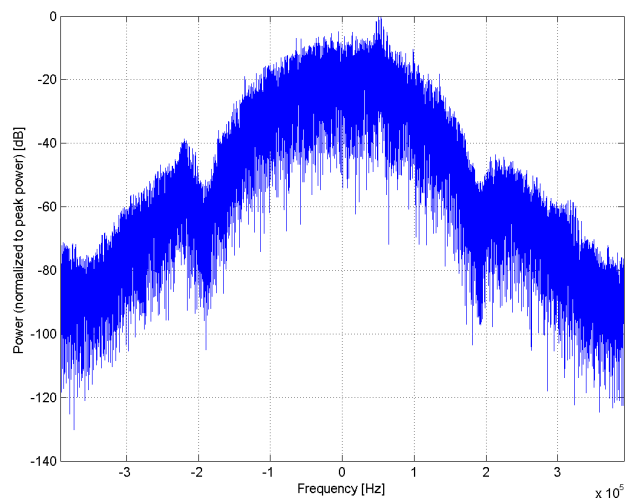
| | |
|-------------------------|--|
| Name: | EDGE-FDD (TDMA, 8PSK, TN 0-1) |
| Group: | GSM |
| UID: | 10026-DAC |
| PAR: ¹ | 9.55 dB |
| MIF: ² | 1.23 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | 8PSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slot:s TN0, TN1 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for 8PSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

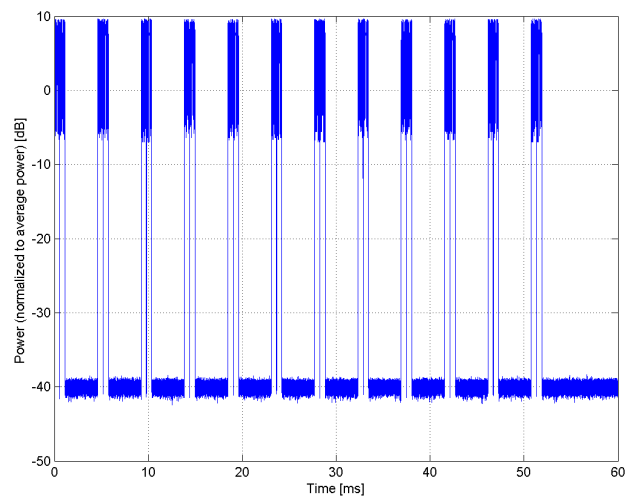
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



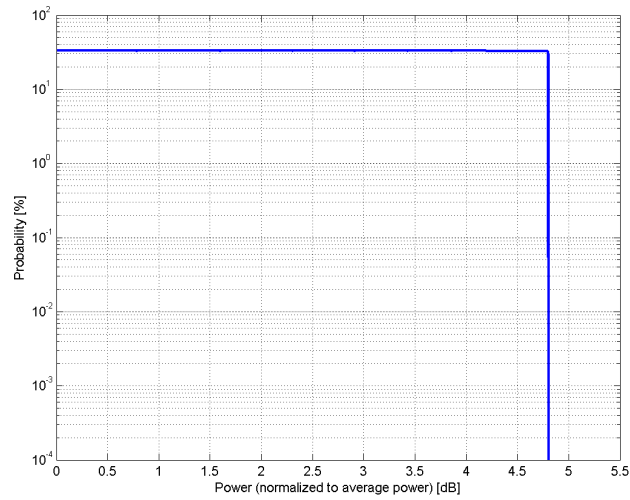
Time Domain

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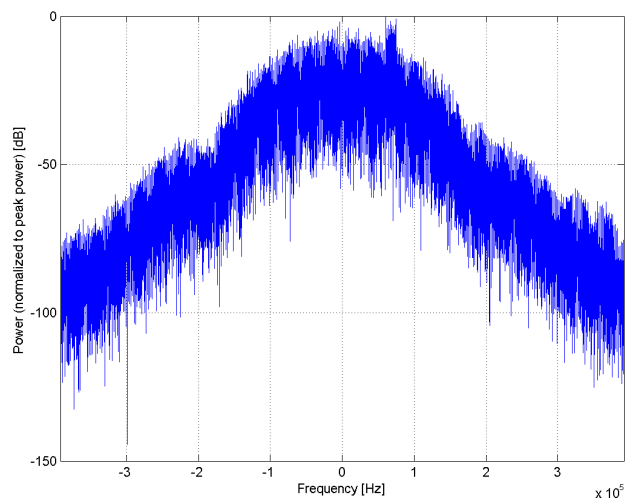
| | |
|-------------------------|--|
| Name: | GPRS-FDD (TDMA, GMSK, TN 0-1-2) |
| Group: | GSM |
| UID: | 10027-DAC |
| PAR: ¹ | 4.80 dB |
| MIF: ² | -0.67 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN1, TN2 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

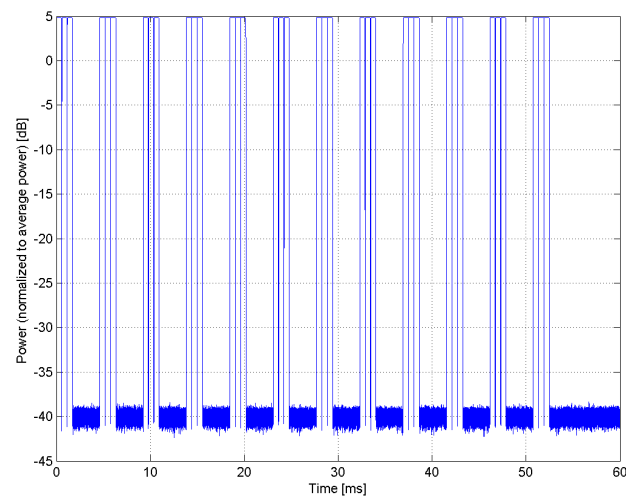
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



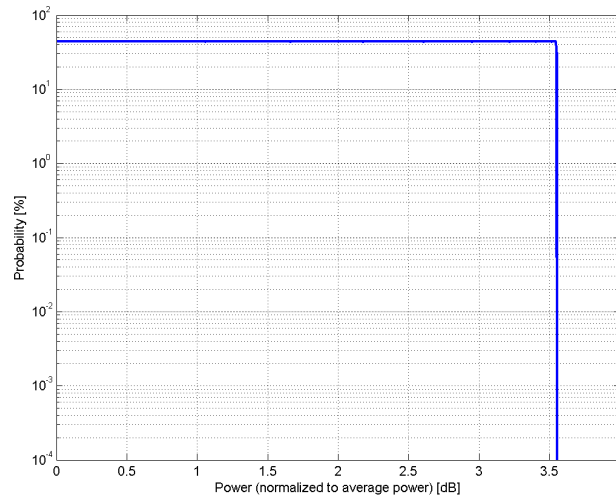
Time Domain

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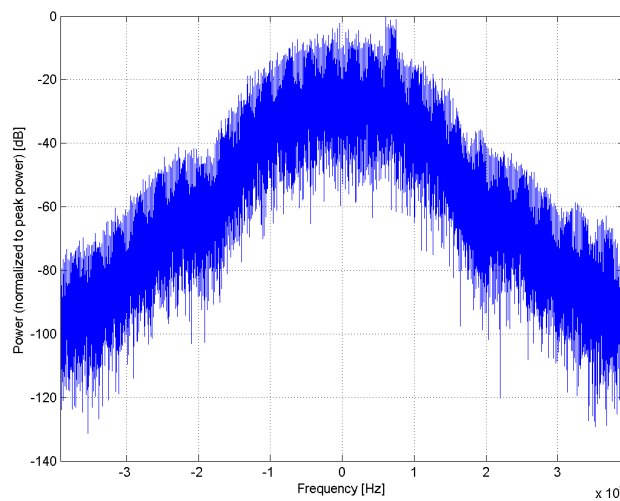
| | |
|-------------------------|--|
| Name: | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) |
| Group: | GSM |
| UID: | 10028-DAC |
| PAR: ¹ | 3.55 dB |
| MIF: ² | -2.05 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN1, TN2, TN3 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

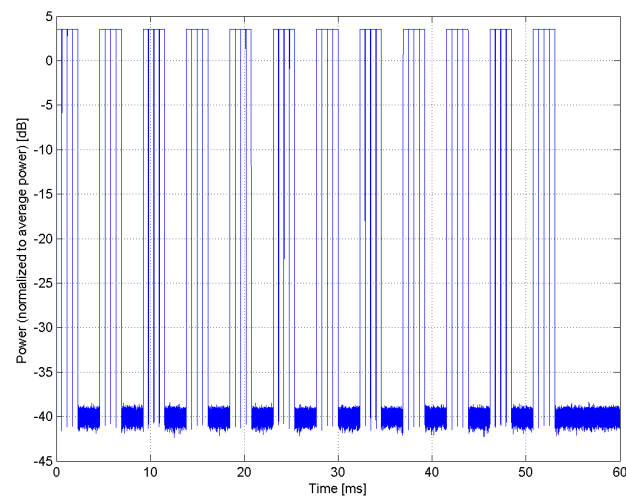
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



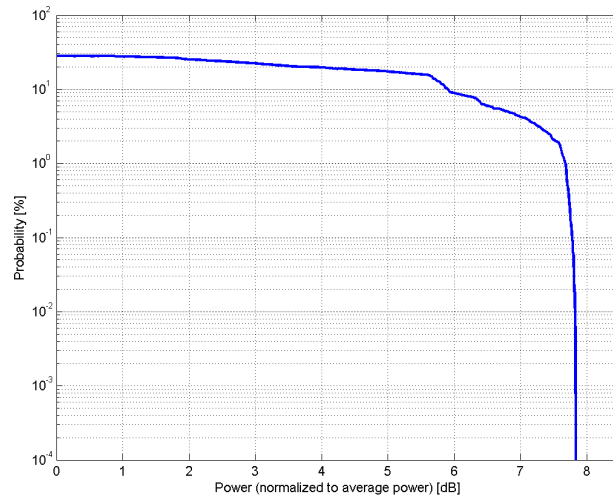
Time Domain

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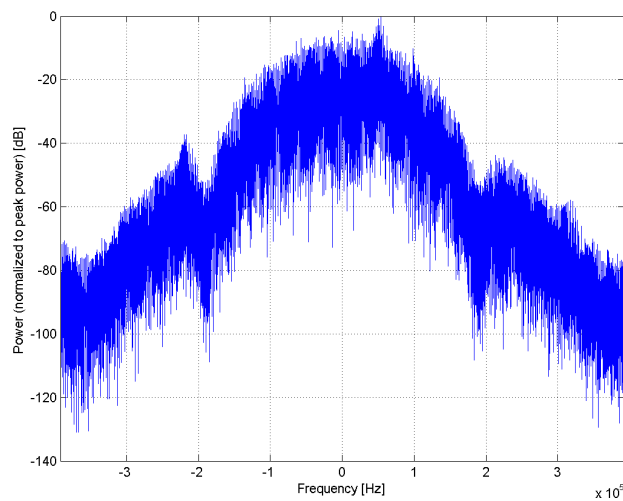
| | |
|-------------------------|--|
| Name: | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) |
| Group: | GSM |
| UID: | 10029-DAC |
| PAR: ¹ | 7.78 dB |
| MIF: ² | -0.52 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | 8PSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN1, TN2 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for 8PSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

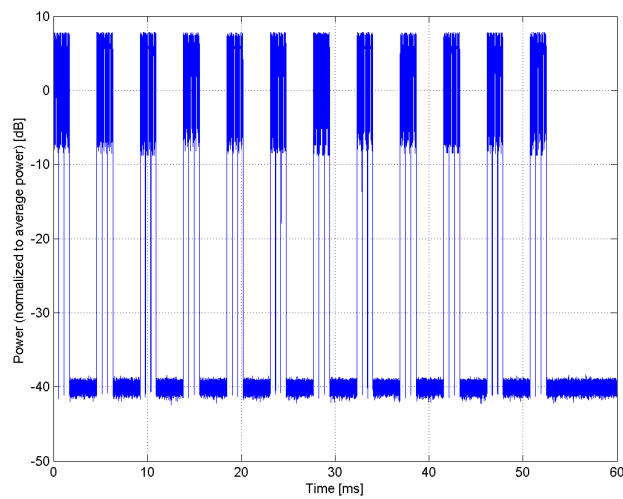
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



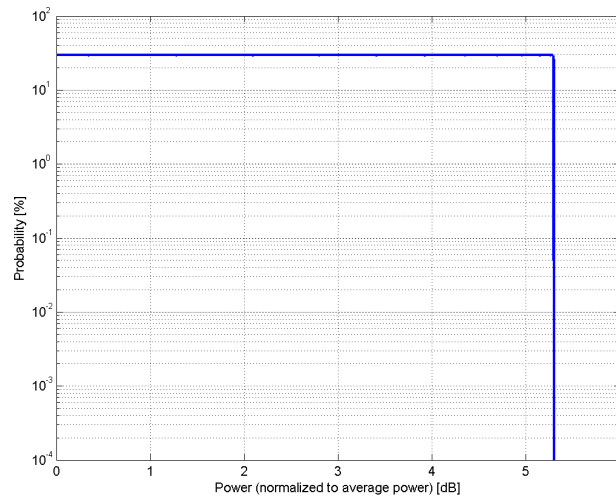
Time Domain

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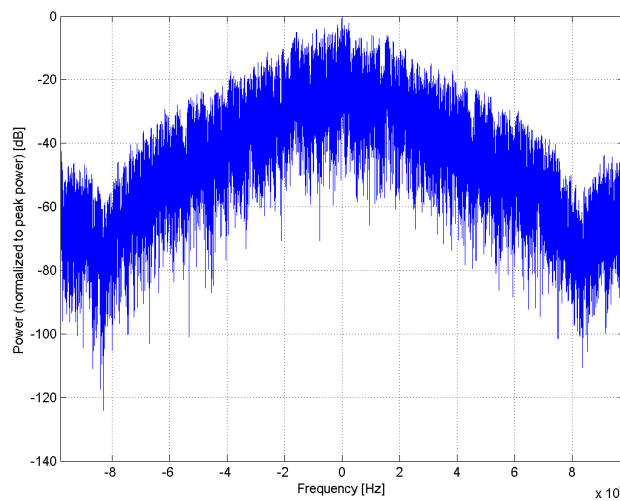
| | |
|-------------------------|--|
| Name: | IEEE 802.15.1 Bluetooth (GFSK, DH1) |
| Group: | Bluetooth |
| UID: | 10030-CAA |
| PAR: ¹ | 5.30 dB |
| MIF: ² | 1.02 dB |
| Standard Reference: | Bluetooth 1.2 (IEEE Standard 802.15.1-2005) |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Basic Rate, 1 Slot active Data Rate: 1 Mbps Packet Type: DH1 Payload Body: 27 Bytes PN9 data is inserted into the payload body Modulation for Payload: GFSK Modulation Index: 0.32 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 2.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

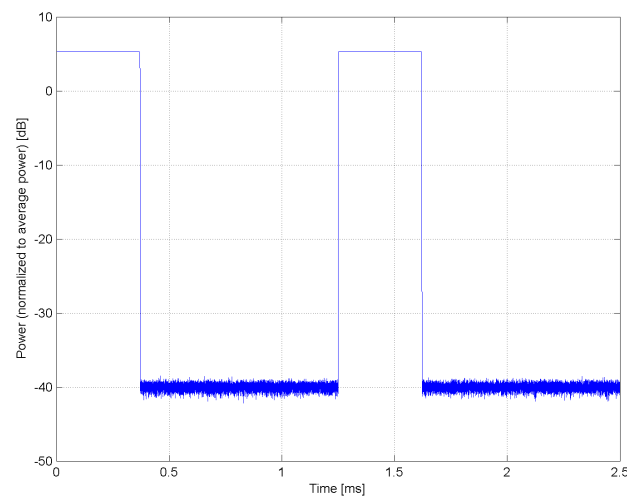
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



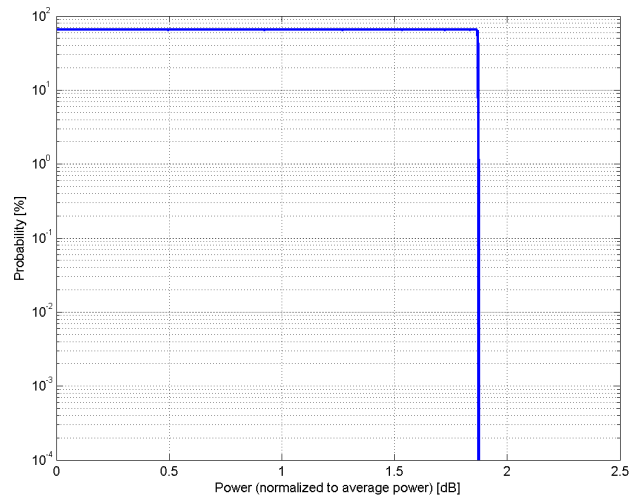
Time Domain

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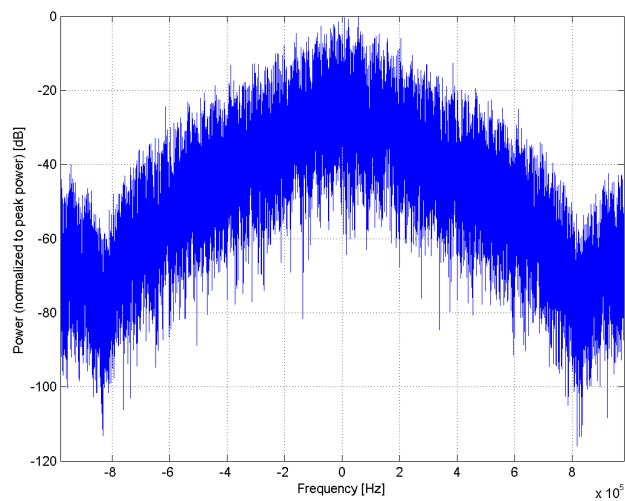
| | |
|-------------------------|---|
| Name: | IEEE 802.15.1 Bluetooth (GFSK, DH3) |
| Group: | Bluetooth |
| UID: | 10031-CAA |
| PAR: ¹ | 1.87 dB |
| MIF: ² | -2.66 dB |
| Standard Reference: | Bluetooth 1.2 (IEEE Standard 802.15.1-2005) |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Basic Rate, 3 Slot active Data Rate: 1 Mbps Packet Type: DH3 Payload Body: 183 Bytes PN9 data is inserted into the payload body Modulation for Payload: GFSK Modulation Index: 0.32 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

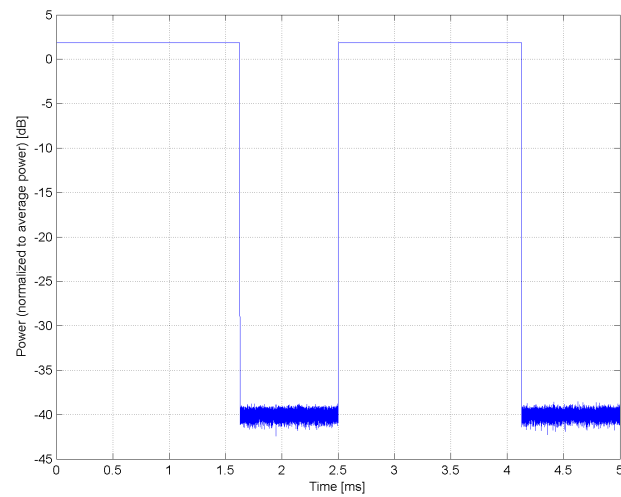
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



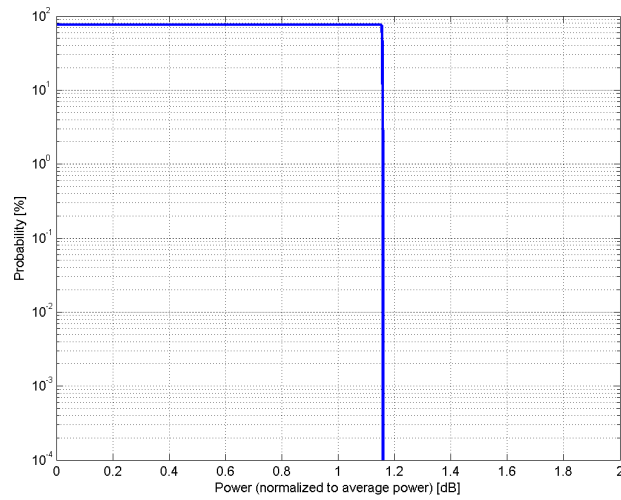
Time Domain

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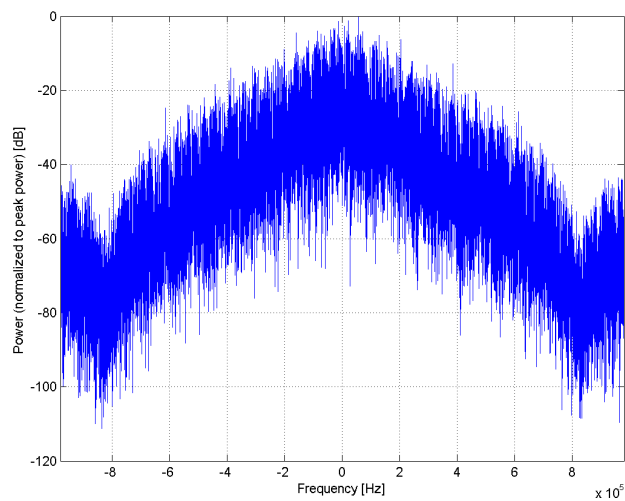
| | |
|-------------------------|---|
| Name: | IEEE 802.15.1 Bluetooth (GFSK, DH5) |
| Group: | Bluetooth |
| UID: | 10032-CAA |
| PAR: ¹ | 1.16 dB |
| MIF: ² | -3.98 dB |
| Standard Reference: | Bluetooth 1.2 (IEEE Standard 802.15.1-2005) |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Basic Rate, 5 Slot active Data Rate: 1 Mbps Packet Type: DH5 Payload Body: 339 Bytes PN9 data is inserted into the payload body Modulation for Payload: GFSK Modulation Index: 0.32 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 7.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

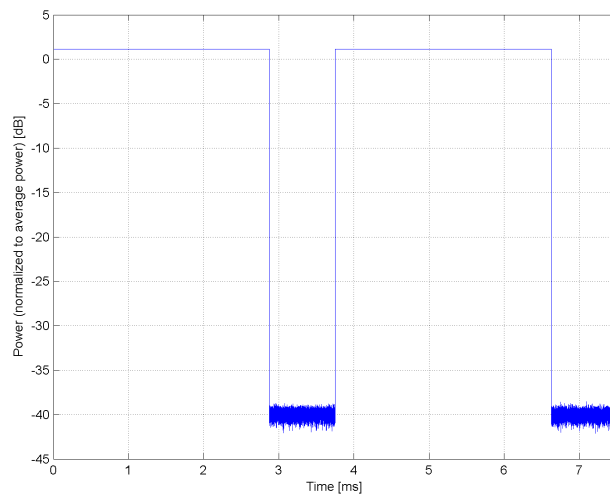
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

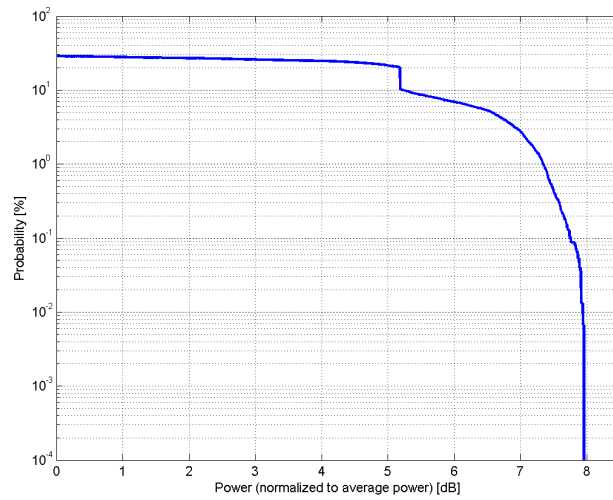


Time Domain

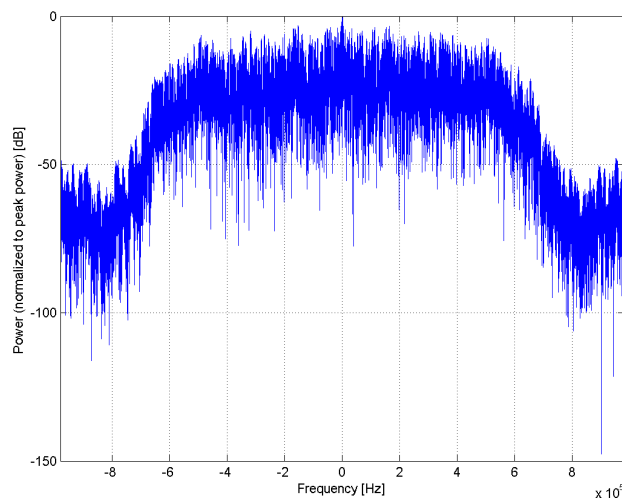
| | |
|-------------------------|--|
| Name: | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) |
| Group: | Bluetooth |
| UID: | 10033-CAA |
| PAR: ¹ | 7.74 dB |
| MIF: ² | 0.90 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | Pi/4-DQPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 1 Slot active Data Rate: 2 Mbps Packet Type: 2-DH1 Payload Body: 54 Bytes PN9 data is inserted into the payload body Modulation for Payload: Pi/4-DQPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 2.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

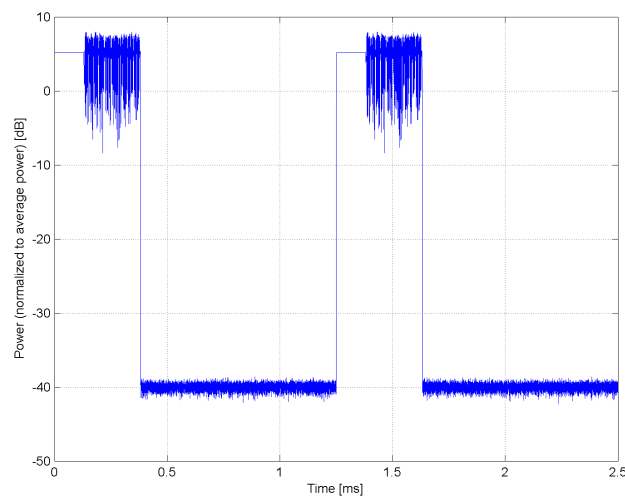
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

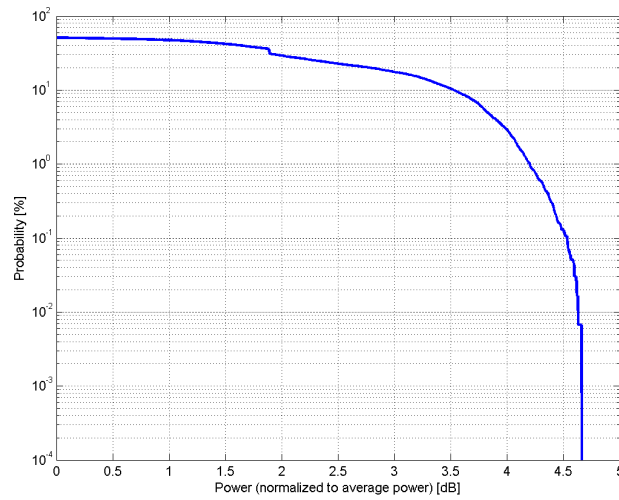


Time Domain

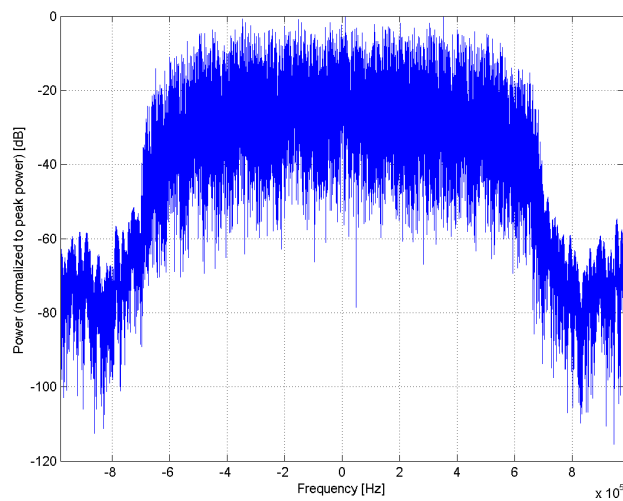
| | |
|-------------------------|---|
| Name: | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) |
| Group: | Bluetooth |
| UID: | 10034-CAA |
| PAR: ¹ | 4.53 dB |
| MIF: ² | -2.69 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | Pi/4-DQPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 3 Slot active Data Rate: 2 Mbps Packet Type: 2-DH3 Payload Body: 367 Bytes PN9 data is inserted into the payload body Modulation for Payload: Pi/4-DQPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

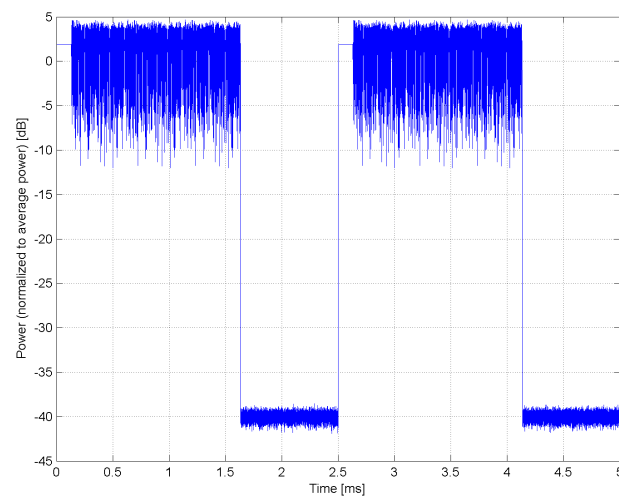
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

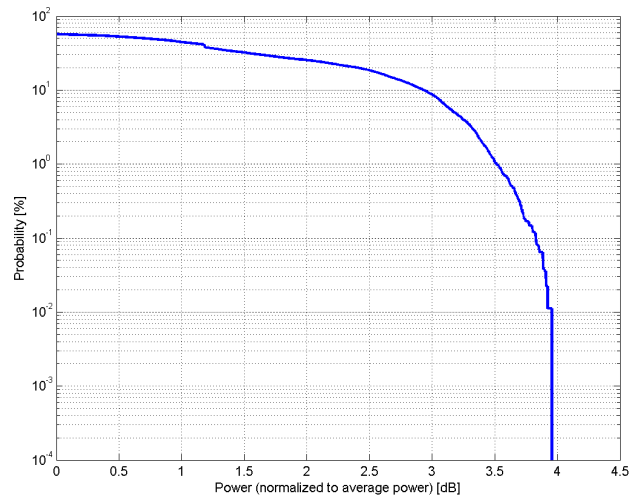


Time Domain

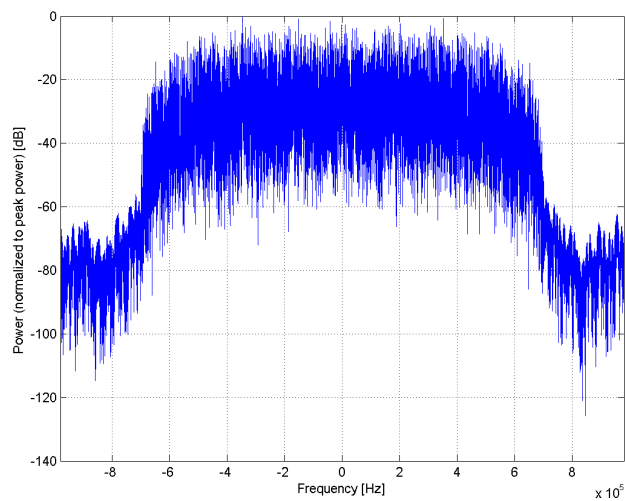
| | |
|-------------------------|---|
| Name: | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) |
| Group: | Bluetooth |
| UID: | 10035-CAA |
| PAR: ¹ | 3.83 dB |
| MIF: ² | -3.99 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | Pi/4-DQPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 5 Slot active Data Rate: 2 Mbps Packet Type: 2-DH5 Payload Body: 679 Bytes PN9 data is inserted into the payload body Modulation for Payload: Pi/4-DQPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 7.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

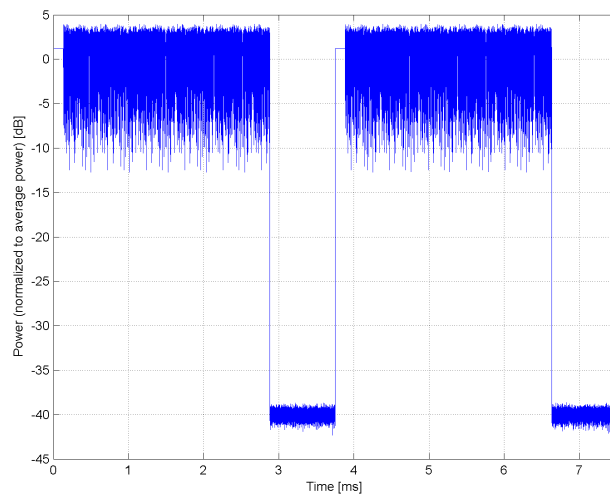
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



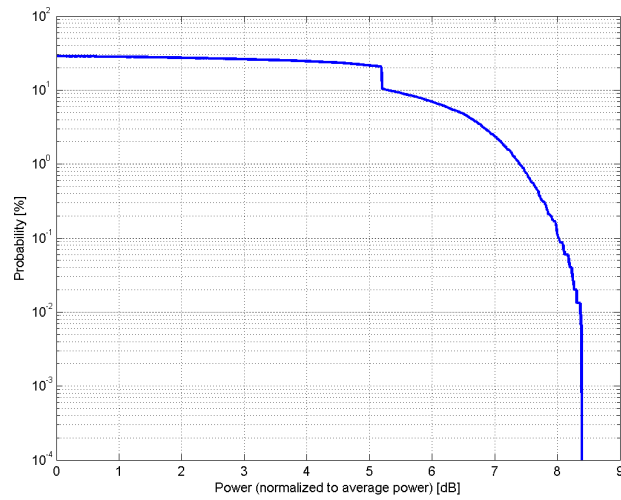
Time Domain

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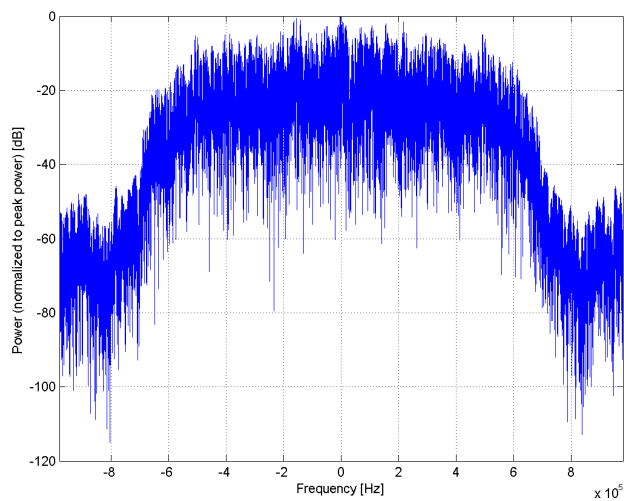
| | |
|-------------------------|--|
| Name: | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) |
| Group: | Bluetooth |
| UID: | 10036-CAA |
| PAR: ¹ | 8.01 dB |
| MIF: ² | 0.89 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | 8-DPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 1 Slot active Data Rate: 3 Mbps Packet Type: 3-DH1 Payload Body: 83 Bytes PN9 data is inserted into the payload body Modulation for Payload: 8-DPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 2.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

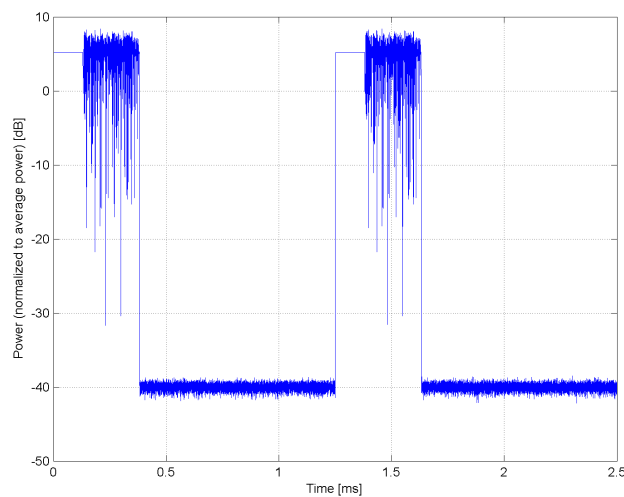
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



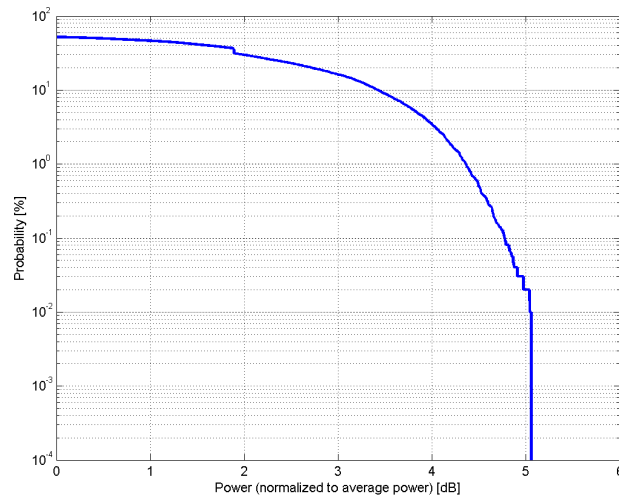
Time Domain

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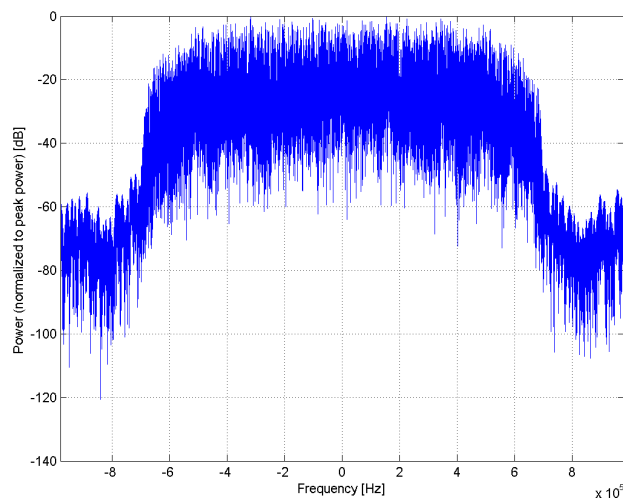
| | |
|-------------------------|---|
| Name: | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) |
| Group: | Bluetooth |
| UID: | 10037-CAA |
| PAR: ¹ | 4.77 dB |
| MIF: ² | -2.68 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | 8-DPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 3 Slot active Data Rate: 3 Mbps Packet Type: 3-DH3 Payload Body: 552 Bytes PN9 data is inserted into the payload body Modulation for Payload: 8-DPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

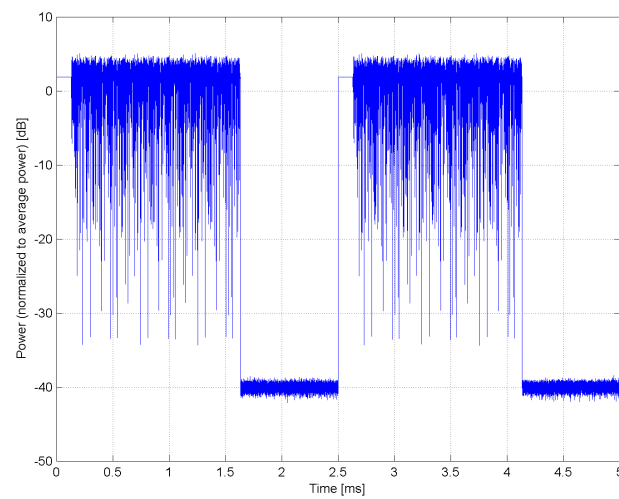
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



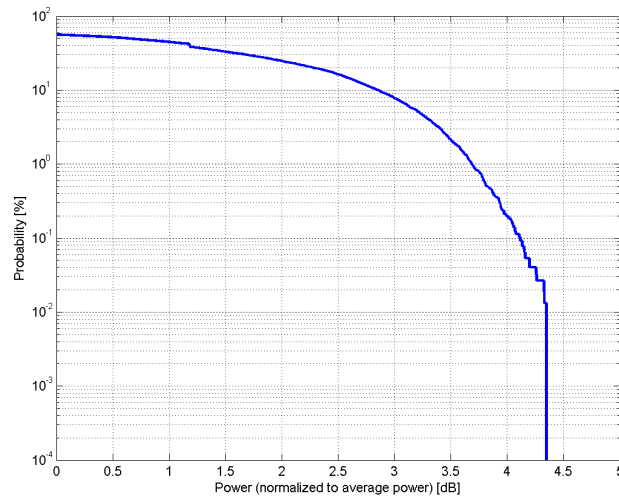
Time Domain

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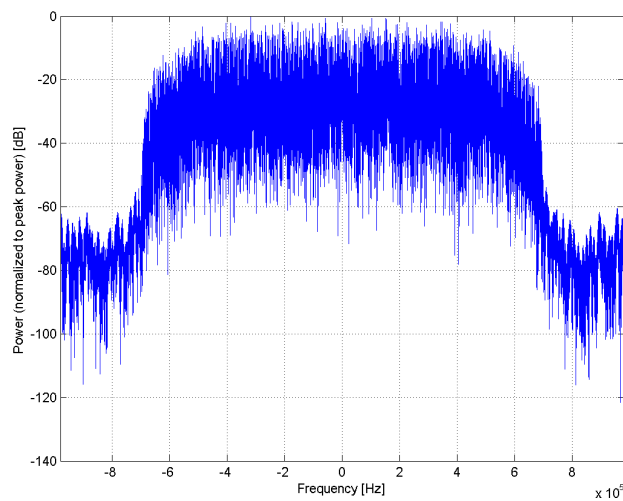
| | |
|-------------------------|--|
| Name: | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) |
| Group: | Bluetooth |
| UID: | 10038-CAA |
| PAR: ¹ | 4.10 dB |
| MIF: ² | -3.99 dB |
| Standard Reference: | Bluetooth 2.0 + EDR (Bluetooth SIG) |
| Category: | Periodic pulsed modulation |
| Modulation: | 8-DPSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0-2483.5 MHz, 20052) |
| Detailed Specification: | Enhanced Data Rate, 5 Slot active Data Rate: 3 Mbps Packet Type: 3-DH5 Payload Body: 1021 Bytes PN9 data is inserted into the payload body Modulation for Payload: 8-DPSK Filter: Root Nyquist (Roll-off Rate = 0.4) |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 7.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

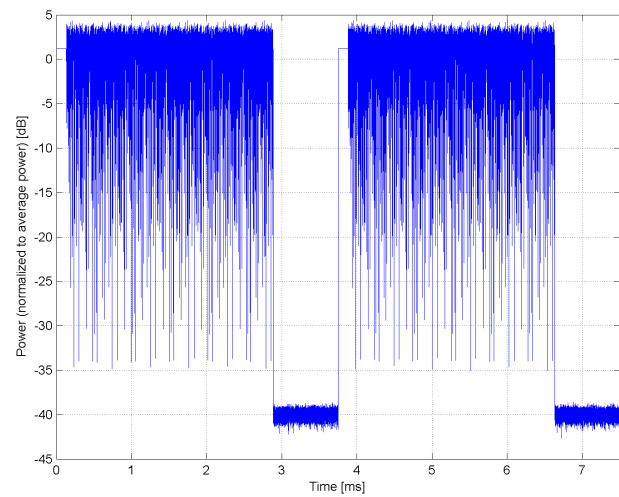
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



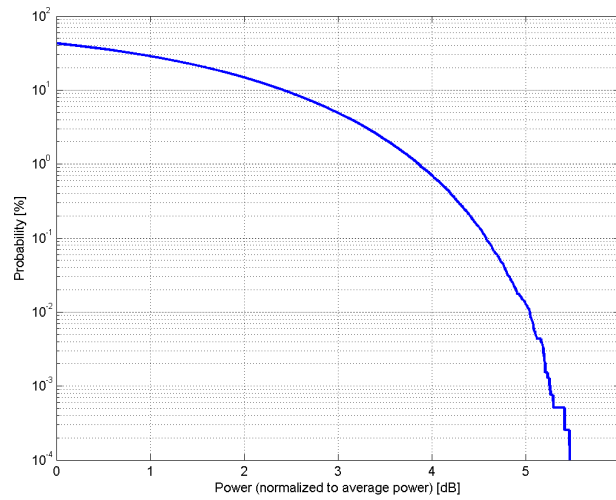
Time Domain

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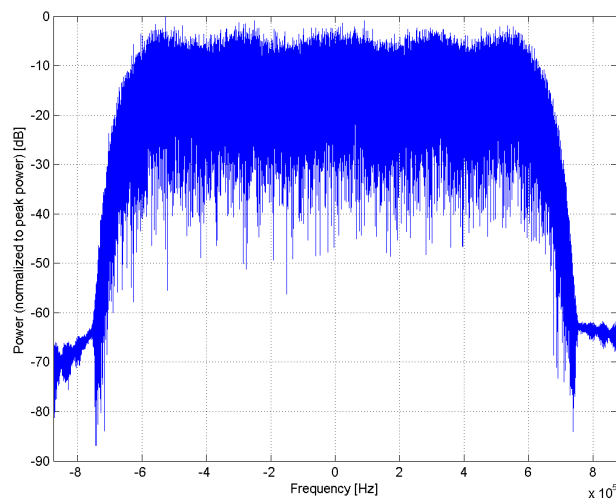
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xRTT, RC1) |
| Group: | CDMA2000 |
| UID: | 10039-CAB |
| PAR: ¹ | 4.57 dB |
| MIF: ² | -19.77 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | 64-ary orthogonal |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configurations 1 (RC1) Output Slot: FCH 9.6 kpbs (PN9fix) |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 80.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

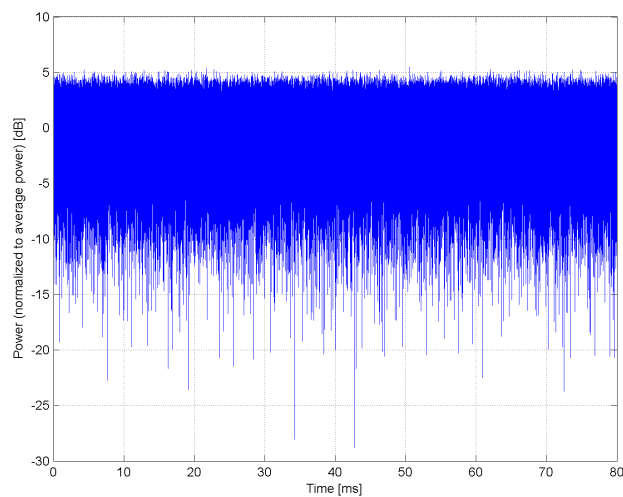
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



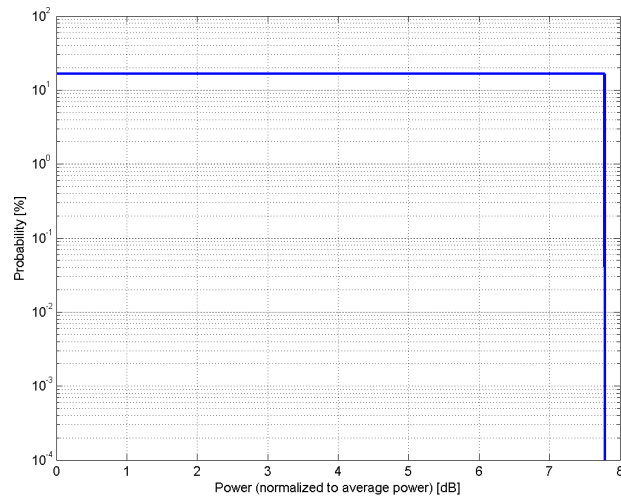
Time Domain

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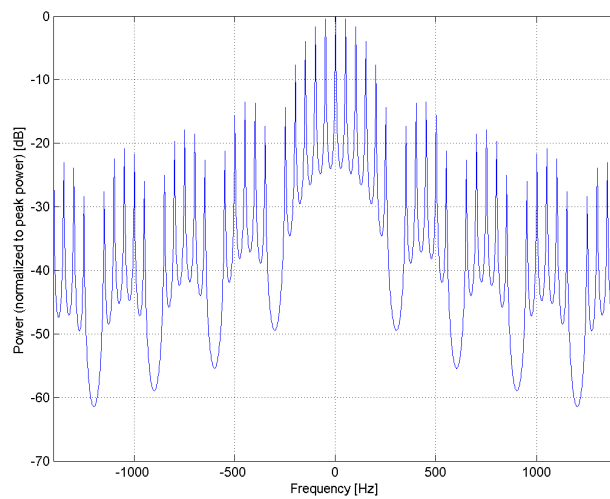
| | |
|-------------------------|--|
| Name: | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) |
| Group: | AMPS |
| UID: | 10042-CAB |
| PAR: ¹ | 7.78 dB |
| MIF: ² | 0.86 dB |
| Standard Reference: | TIA/EIA-136-110-B |
| Category: | Periodic pulsed modulation |
| Modulation: | Pi/4-DQPSK |
| Frequency Band: | IS-136, 800MHz, 30kHz (824.0-849.0 MHz, 20222) IS-136, 800MHz, 200kHz (824.0-849.0 MHz, 20223) IS-136, 1900MHz, 30kHz (1850.0-1910.0 MHz, 20224) IS-136, 1900MHz, 200kHz (1850.0-1910.0 MHz, 20225) IS-136, 1900MHz, 30kHz (1920.0-1980.0 MHz, 20226) IS-136, 1900MHz, 200kHz (1920.0-1980.0 MHz, 20227) IS-136, 700MHz, 30kHz (747.0-762.0 MHz, 20228) IS-136, 700MHz, 200kHz (747.0-762.0 MHz, 20229) |
| Detailed Specification: | D-AMPS Multiple Access Method: TDMA/FDM Channel Spacing/Bandwidth: 30 kHz / 200 kHz Channel Bit Rate: 48.6 kbit/s Spectrum Efficiency: 1.62 bit/s/Hz Active Channels: 1 of 6 (Halfrate Channels) |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 20.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

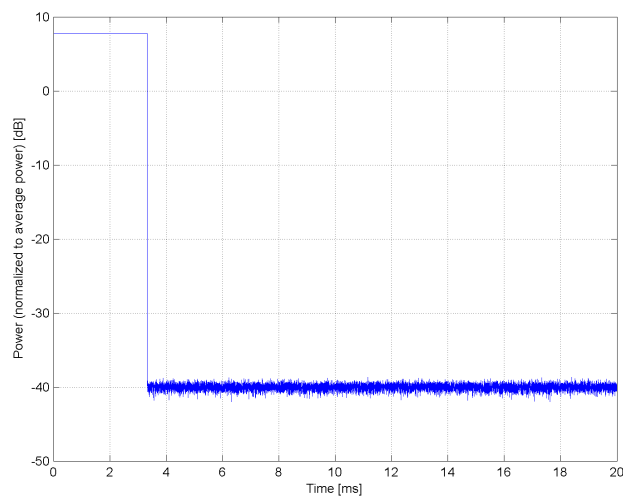
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IS-91/EIA/TIA-553 FDD (FDMA, FM)**

Group: AMPS
UID: 10044-CAA

PAR: ¹ **0.00 dB**
MIF: ² **-99.00 dB**

Standard Reference: TIA/EIA/IS-91
Category: Continuous Waveform
Modulation: FM
Frequency Band: Band Class 0 (824.0 - 849.0 MHz, 20039)
Detailed Specification: Continuous Waveform
Bandwidth: 0.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

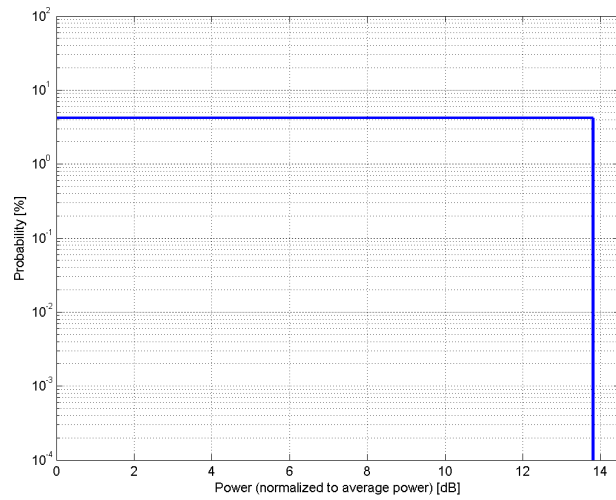
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).

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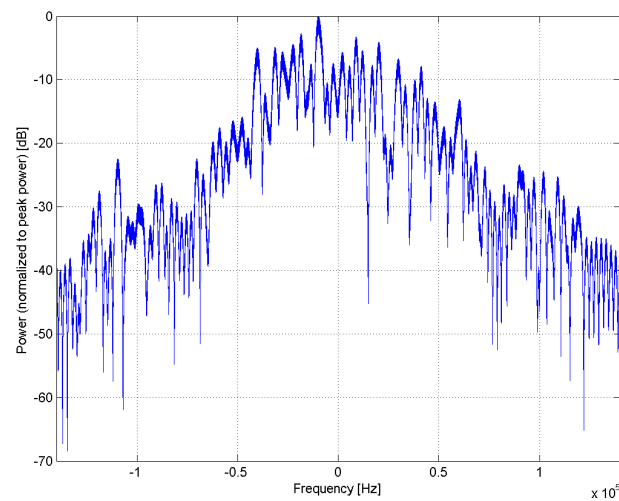
| | |
|-------------------------|--|
| Name: | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) |
| Group: | DECT |
| UID: | 10048-CAA |
| PAR: ¹ | 13.80 dB |
| MIF: ² | 7.03 dB |
| Standard Reference: | ETSI EN 300 175-3 |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | Band 00001 (1880.0-2025.0 MHz, 20170) Band 00010 (1899.1-2023.5 MHz, 20171) Band 00011 (1916.4-2023.5 MHz, 20172) Band 00100 (1937.1-2023.5 MHz, 20173) Band 00100 (1937.1-2023.5 MHz, 20173) Band 00101 (1957.8-1978.6 MHz, 20174) Band 01000 (902.0-928.0 MHz, 20175) Band 01001 (2400.0-2483.0 MHz, 20176) |
| Detailed Specification: | No. of active slot per frame: 1 GFSK Modulation Data Type: Bernoulli Random Sequence Bitduration Product BT=0.5 |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

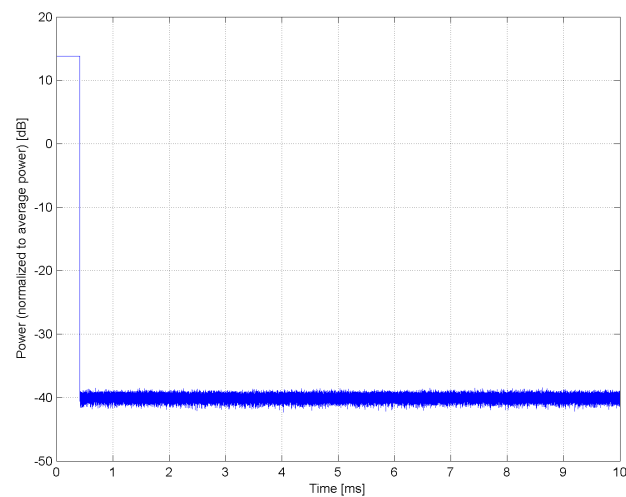
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



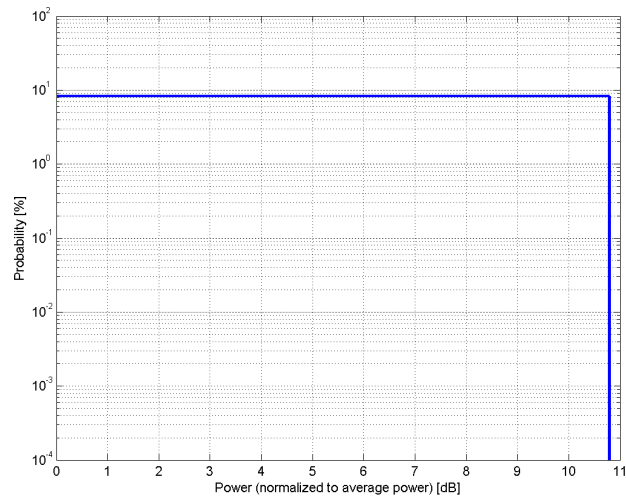
Time Domain

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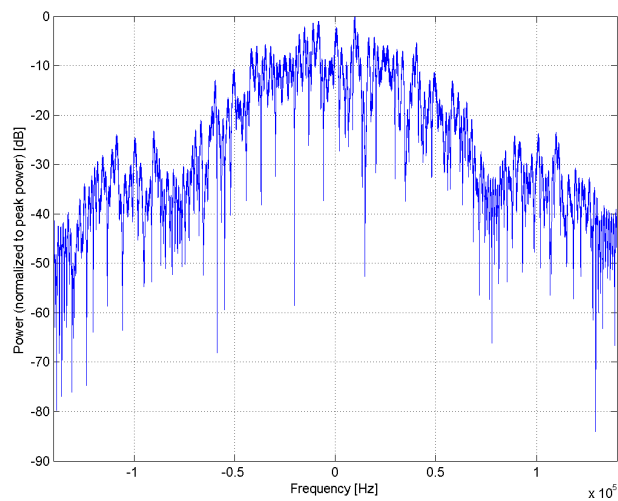
| | |
|-------------------------|--|
| Name: | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) |
| Group: | DECT |
| UID: | 10049-CAA |
| PAR: ¹ | 10.79 dB |
| MIF: ² | 4.66 dB |
| Standard Reference: | ETSI EN 300 175-3 |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | Band 00001 (1880.0-2025.0 MHz, 20170) Band 00010 (1899.1-2023.5 MHz, 20171) Band 00011 (1916.4-2023.5 MHz, 20172) Band 00100 (1937.1-2023.5 MHz, 20173) Band 00100 (1937.1-2023.5 MHz, 20173) Band 00101 (1957.8-1978.6 MHz, 20174) Band 01000 (902.0-928.0 MHz, 20175) Band 01001 (2400.0-2483.0 MHz, 20176) |
| Detailed Specification: | No. of active slot per frame: 2 GFSK Modulation Data Type: Bernoulli Random Sequence Bitduration Product BT=0.5 |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

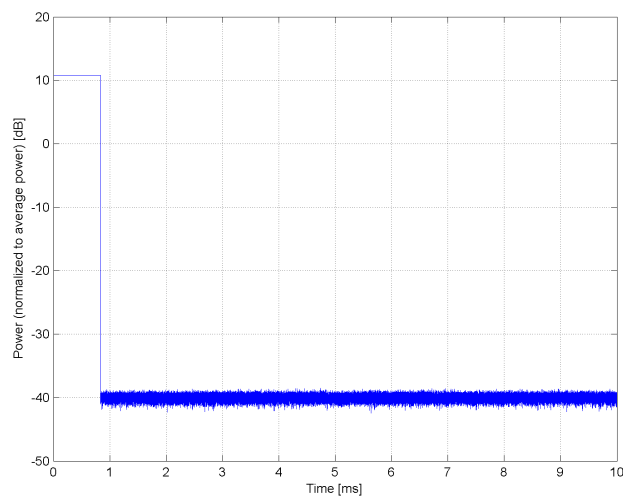
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

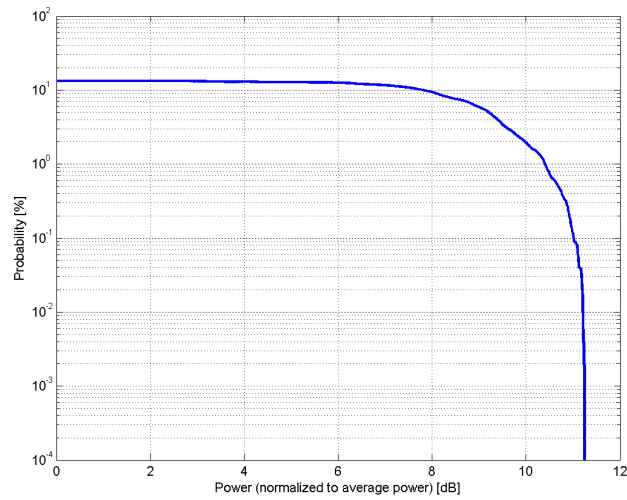


Time Domain

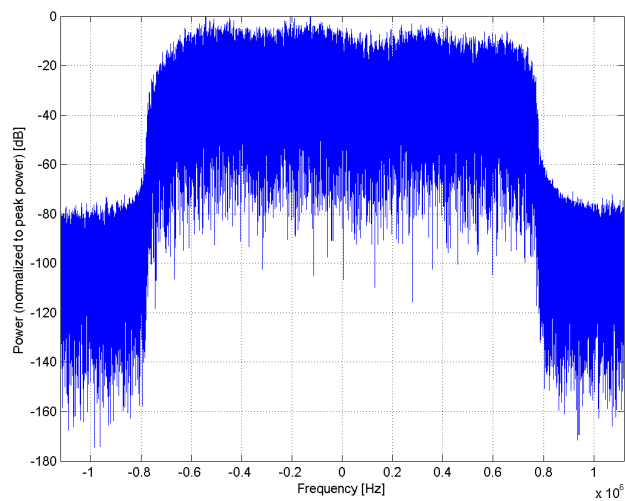
| | |
|-------------------------|--|
| Name: | UMTS-TDD (TD-SCDMA, 1.28 Mcps) |
| Group: | TD-SCDMA |
| UID: | 10056-CAA |
| PAR: ¹ | 11.01 dB |
| MIF: ² | 3.10 dB |
| Standard Reference: | 3GPP TS 25.102, Appendix A.2.1.2 |
| Category: | Periodic pulsed modulation |
| Modulation: | QPSK |
| Frequency Band: | Band a1, UTRA/TDD (1900.0-1920.0 MHz, 20055) Band a2, UTRA/TDD (2010.0-2025.0 MHz, 20056) Band b1, UTRA/TDD (1850.0-1910.0 MHz, 20057) Band b2, UTRA/TDD (1930.0-1990.0 MHz, 20058) Band c, UTRA/TDD (1910.0-1930.0 MHz, 20059) Band d, UTRA/TDD (2570.0-2620.0 MHz, 20060) Band e, UTRA/TDD (2300.0-2400.0 MHz, 20061) Band f, UTRA/TDD (1880.0-1920.0 MHz, 20062) |
| Detailed Specification: | Chiprate: 1.28 Mcps Information Data Rate: 12.2 kbps Spread Factor: 8 |
| Bandwidth: | 1.6 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

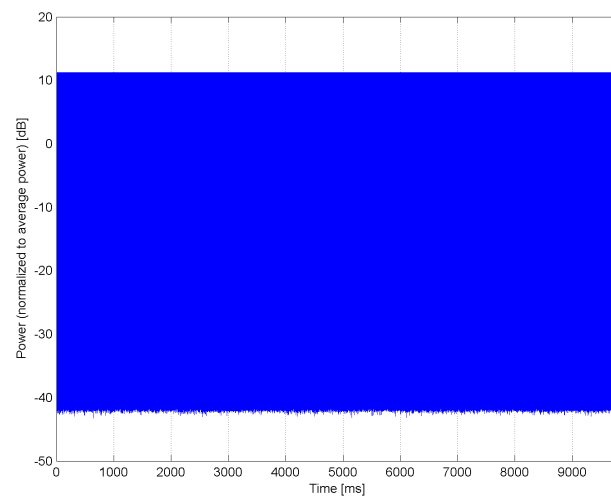
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



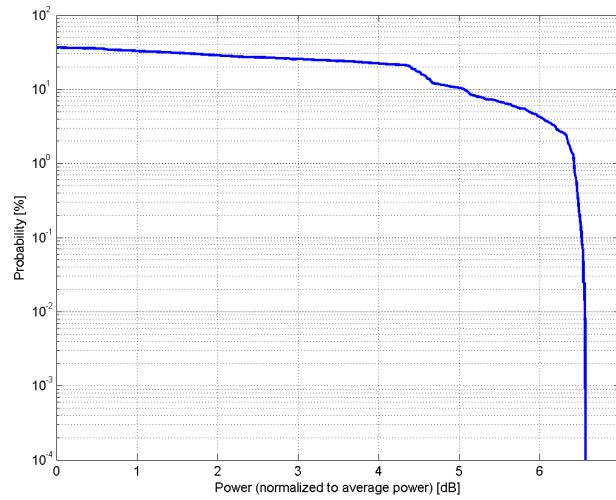
Time Domain

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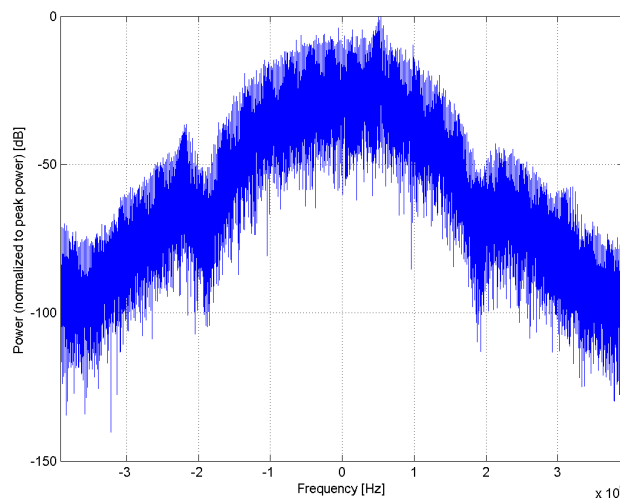
| | |
|-------------------------|--|
| Name: | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) |
| Group: | GSM |
| UID: | 10058-DAC |
| PAR: ¹ | 6.52 dB |
| MIF: ² | -1.82 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | 8PSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN1, TN2, TN3 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for 8PSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

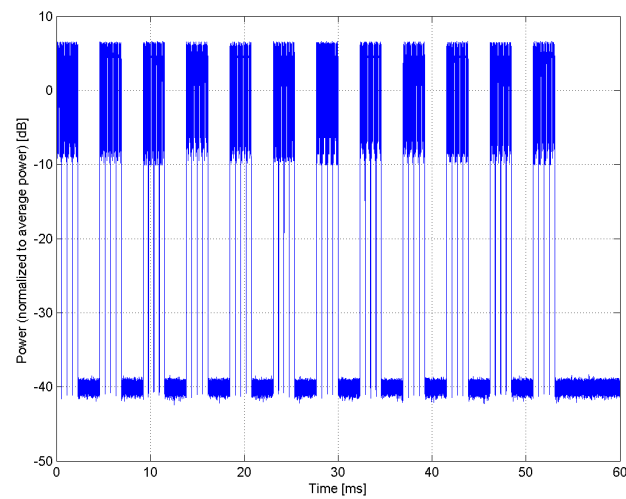
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



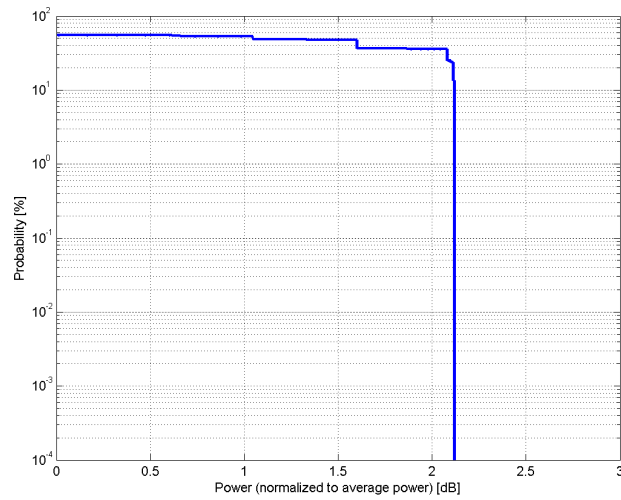
Time Domain

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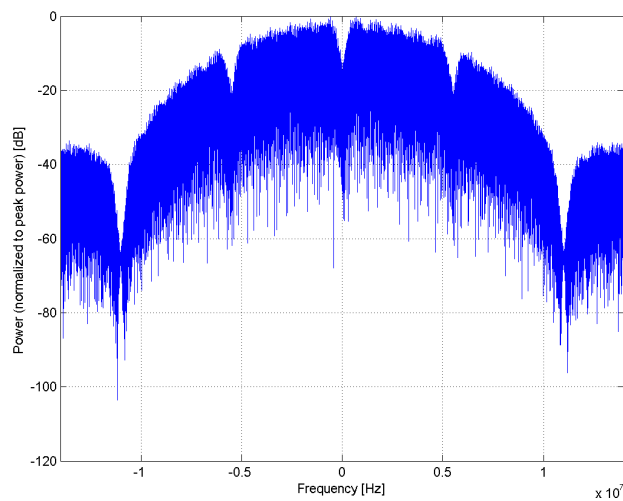
| | |
|-------------------------|---|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) |
| Group: | WLAN |
| UID: | 10059-CAB |
| PAR: ¹ | 2.12 dB |
| MIF: ² | -5.17 dB |
| Standard Reference: | IEEE 802.11b-1999 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 2 Mbps Spreading, Coding: DSSS, 11 Chip Barker PPDU format: Long Preamble & Heading PSDU Length: 1024 PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 4.9 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

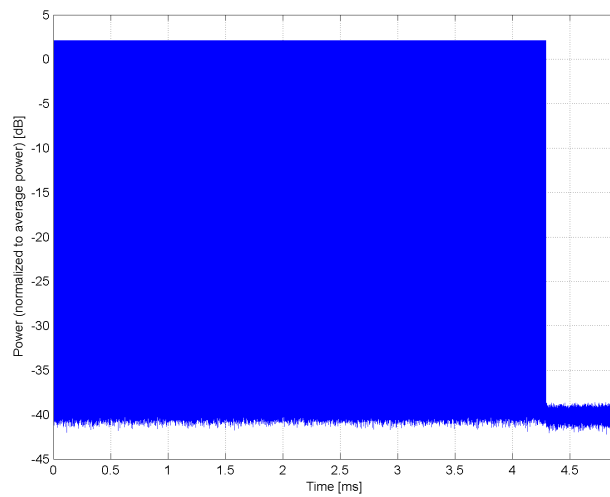
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



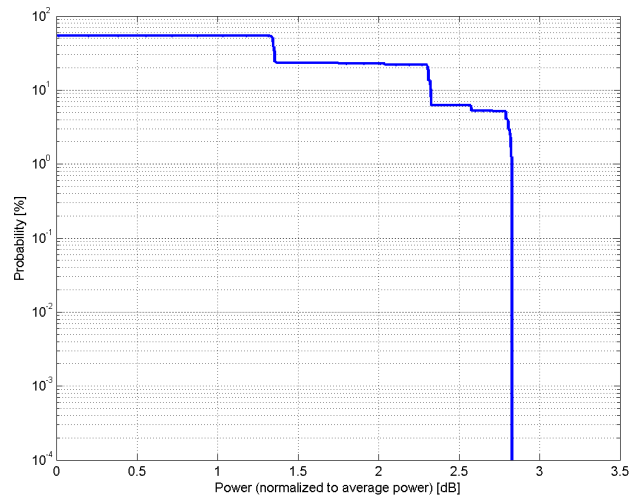
Time Domain

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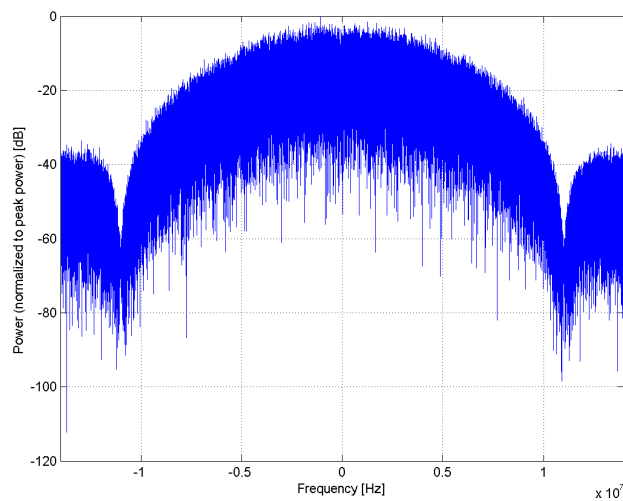
| | |
|-------------------------|--|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) |
| Group: | WLAN |
| UID: | 10060-CAB |
| PAR: ¹ | 2.83 dB |
| MIF: ² | -3.37 dB |
| Standard Reference: | IEEE 802.11b-1999 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 5.5 Mbps Spreading, Coding: CCK PPDU format: Long Preamble & Heading PSDU Length: 1024 PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 2.3 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

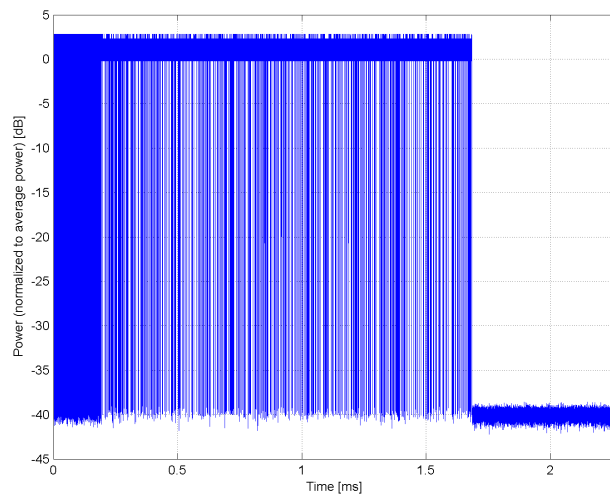
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



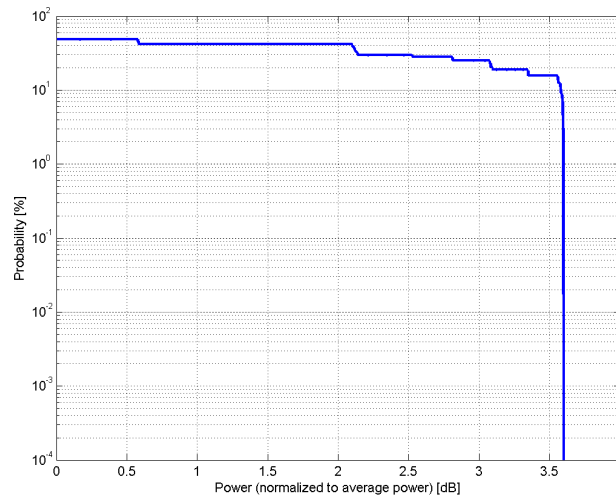
Time Domain

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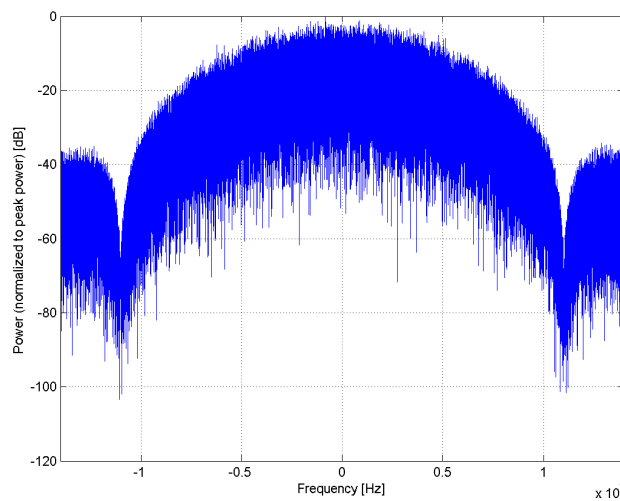
| | |
|-------------------------|---|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) |
| Group: | WLAN |
| UID: | 10061-CAB |
| PAR: ¹ | 3.60 dB |
| MIF: ² | -2.02 dB |
| Standard Reference: | IEEE 802.11b-1999 , Part 11, FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 11 Mbps Spreading, Coding: CCK PPDU format: Long Preamble & Heading PSDU Length: 1024 PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

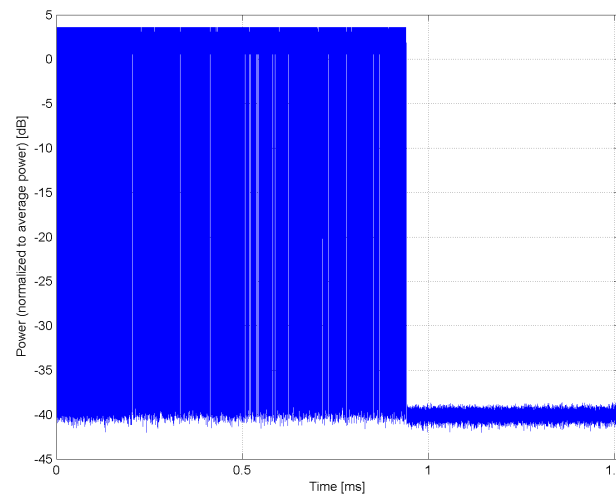
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)**

Group: WLAN
UID: 10062-CAE

PAR: ¹ **8.68 dB**
MIF: ² **-5.82 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

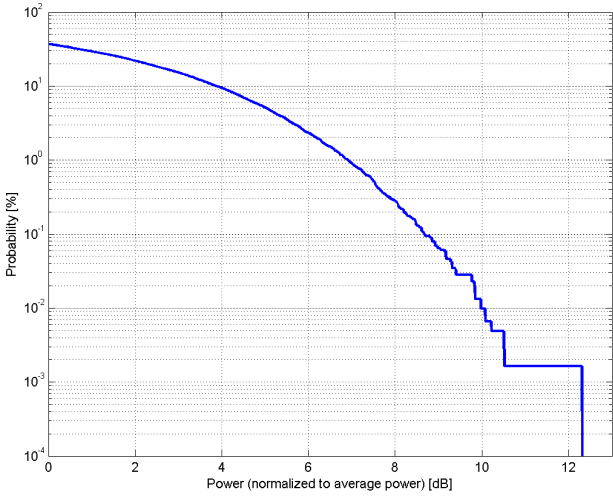
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 6 Mbps
Coding Rate: 1/2
Coded bits per subcarrier: 1
Coded bits per OFDM symbol: 48
Data bits per OFDM symbol: 24
PSDU Length: 1000 Bytes
PSDU Data: PN9

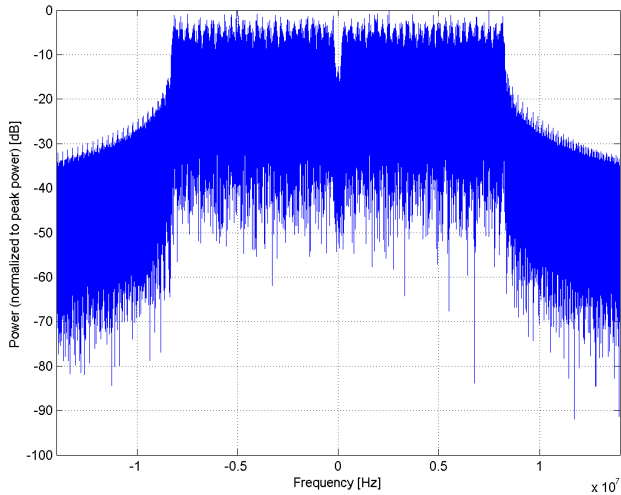
Bandwidth: 20.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

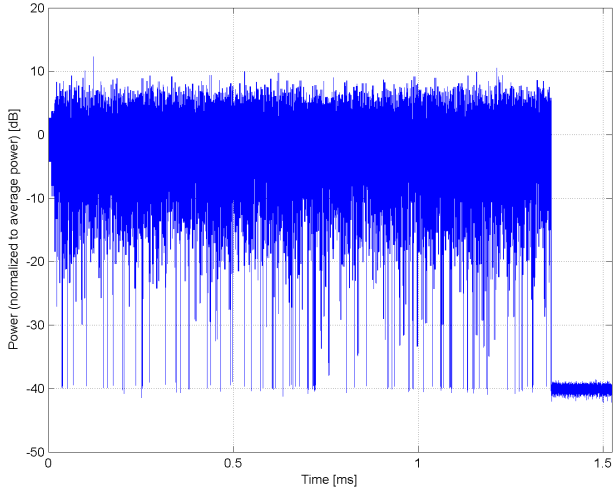
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)**

Group: WLAN
UID: 10063-CAE

PAR: ¹ **8.63 dB**
MIF: ² **-5.14 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

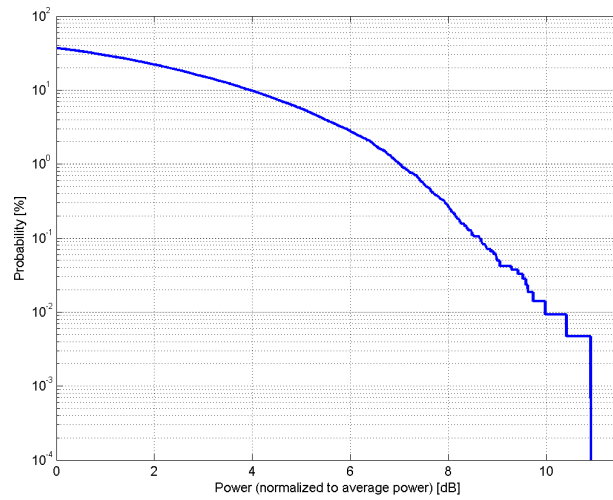
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 9 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 1
Coded bits per OFDM symbol: 48
Data bits per OFDM symbol: 36
PSDU Length: 1000 Bytes
PSDU Data: PN9

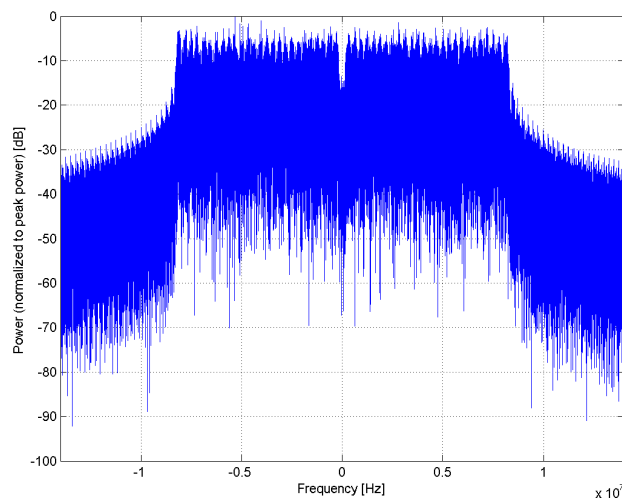
Bandwidth: 20.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

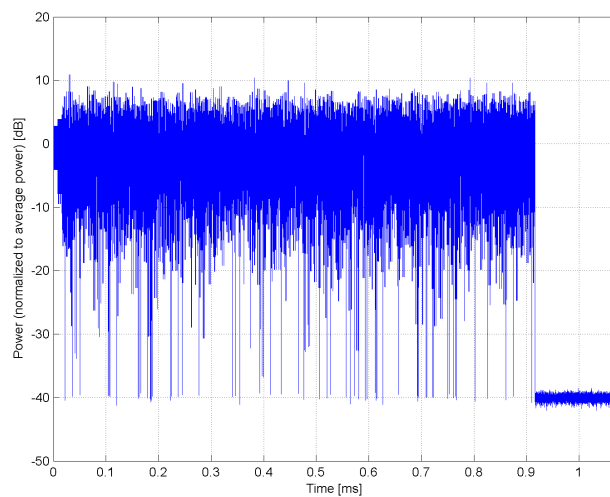
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)**

Group: WLAN
UID: 10064-CAE

PAR: ¹ **9.09 dB**
MIF: ² **-4.67 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

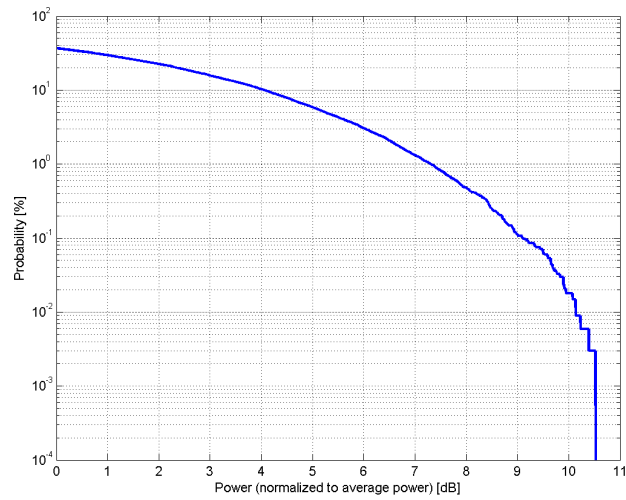
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 12 Mbps
Coding Rate: 1/2
Coded bits per subcarrier: 2
Coded bits per OFDM symbol: 96
Data bits per OFDM symbol: 48
PSDU Length: 1000 Bytes
PSDU Data: PN9

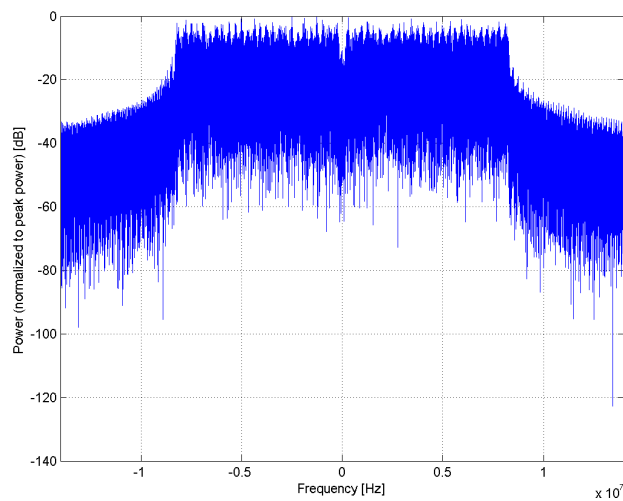
Bandwidth: 20.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

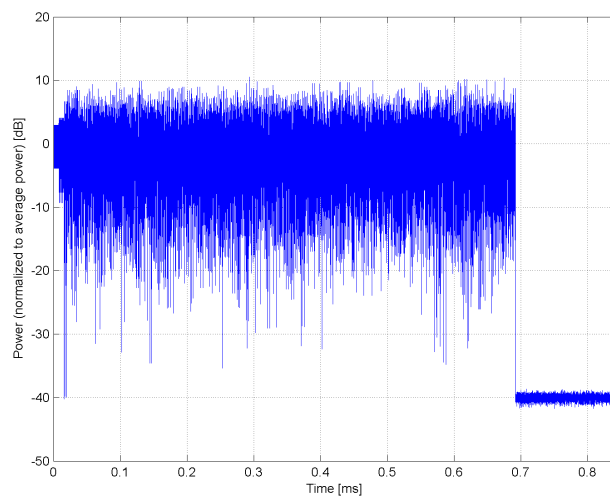
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)**

Group: WLAN
UID: 10065-CAE

PAR: ¹ **9.00 dB**
MIF: ² **-4.00 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

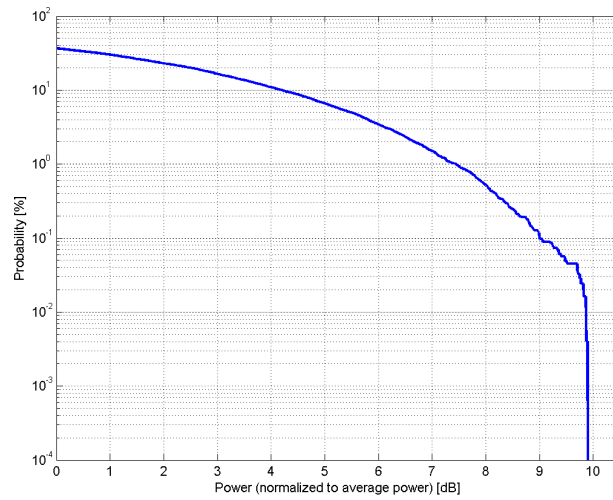
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 18 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 2
Coded bits per OFDM symbol: 96
Data bits per OFDM symbol: 72
PSDU Length: 1000 Bytes
PSDU Data: PN9

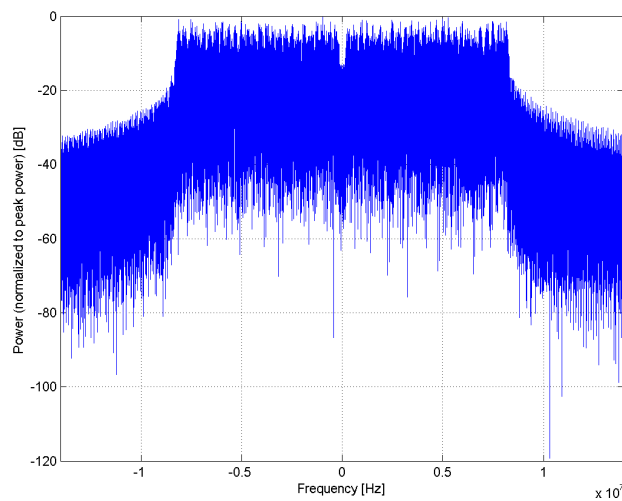
Bandwidth: 20.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

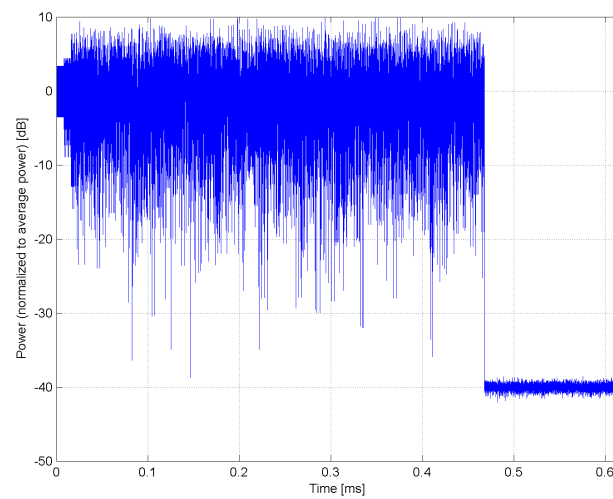
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



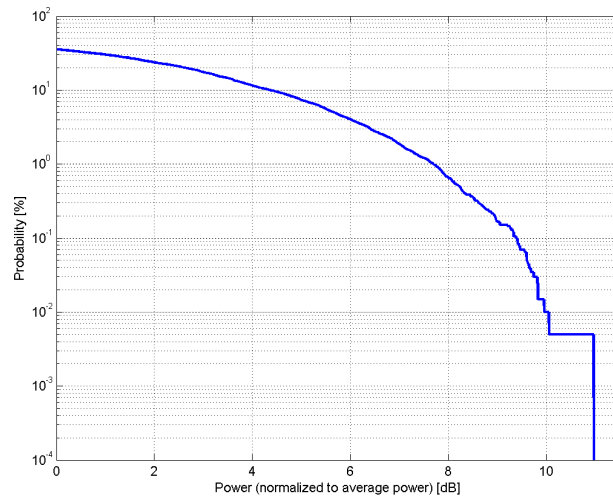
Time Domain

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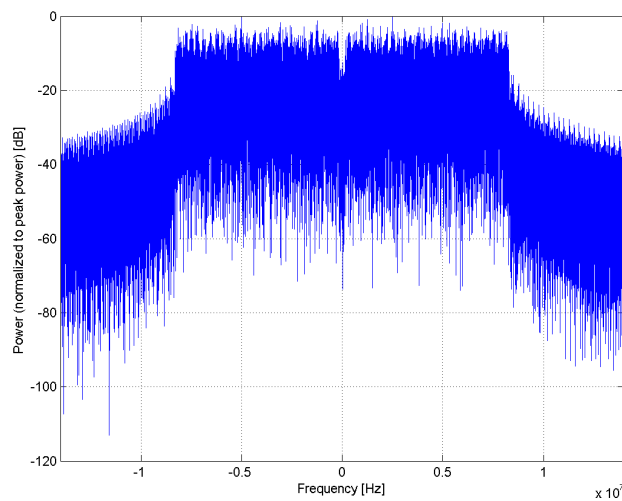
| | |
|-------------------------|---|
| Name: | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) |
| Group: | WLAN |
| UID: | 10066-CAE |
| PAR: ¹ | 9.38 dB |
| MIF: ² | -3.55 dB |
| Standard Reference: | IEEE 802.11a-1999 (R2003) , Part 11 IEEE 802.11h-2003 , Part 11 FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Data Rate: 24 Mbps Coding Rate: 1/2 Coded bits per subcarrier: 4 Coded bits per OFDM symbol: 192 Data bits per OFDM symbol: 96 PSDU Length: 1000 Bytes PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 0.5 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

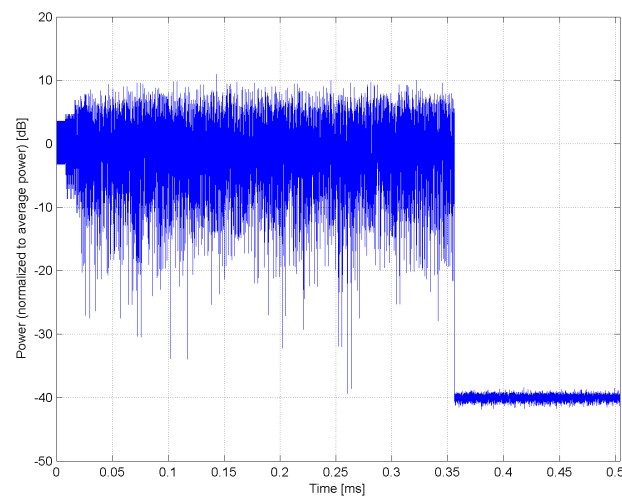
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)**

Group: WLAN
UID: 10067-CAE

PAR: ¹ **10.12 dB**
MIF: ² **-3.20 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

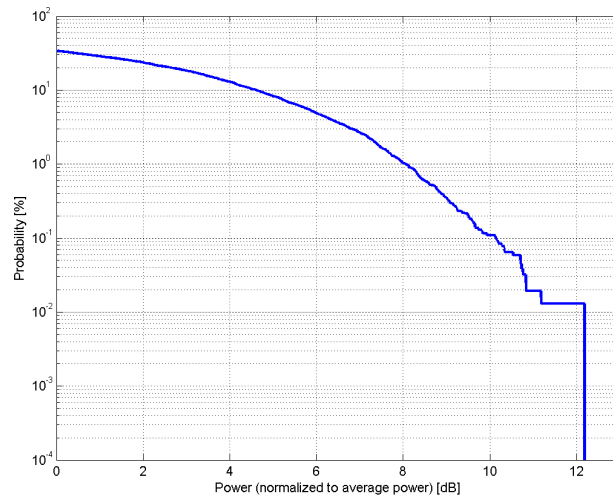
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 36 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 4
Coded bits per OFDM symbol: 192
Data bits per OFDM symbol: 144
PSDU Length: 1000 Bytes
PSDU Data: PN9

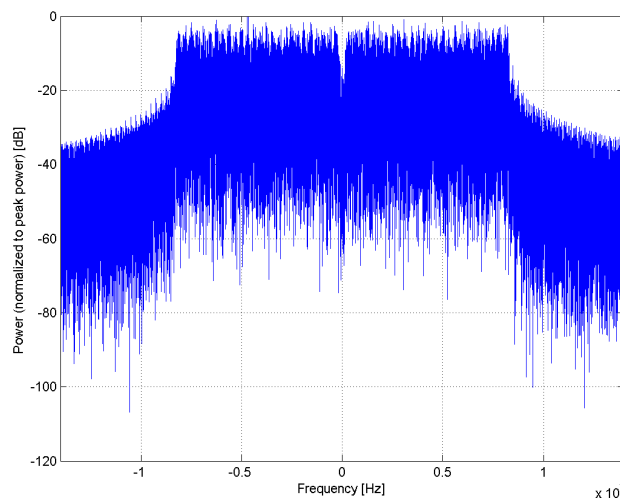
Bandwidth: 20.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

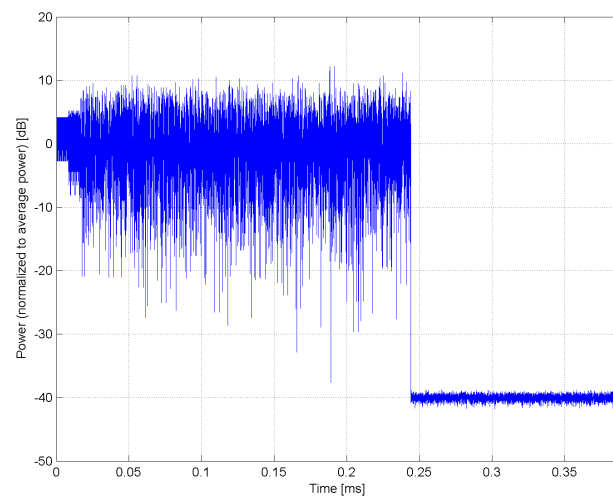
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)**

Group: WLAN
UID: 10068-CAE

PAR: ¹ **10.24 dB**
MIF: ² **-3.16 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

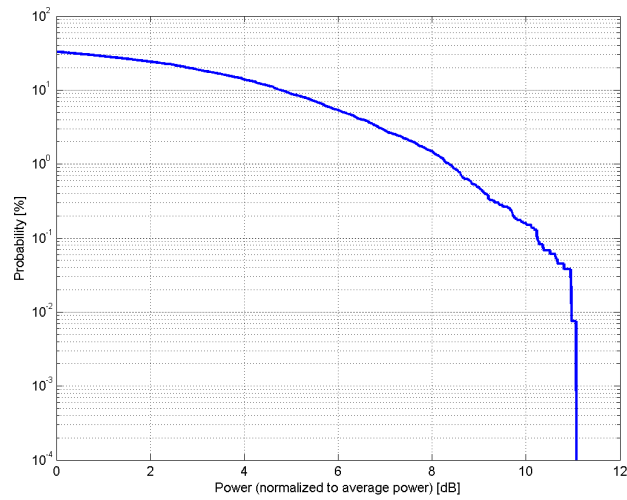
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 48 Mbps
Coding Rate: 2/3
Coded bits per subcarrier: 6
Coded bits per OFDM symbol: 288
Data bits per OFDM symbol: 192
PSDU Length: 1000 Bytes
PSDU Data: PN9

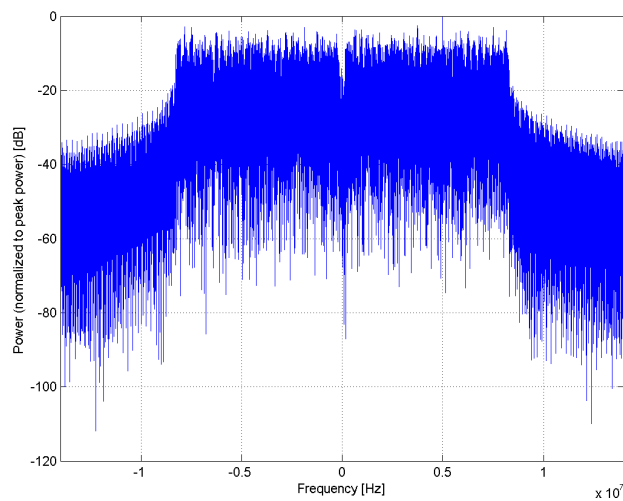
Bandwidth: 20.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

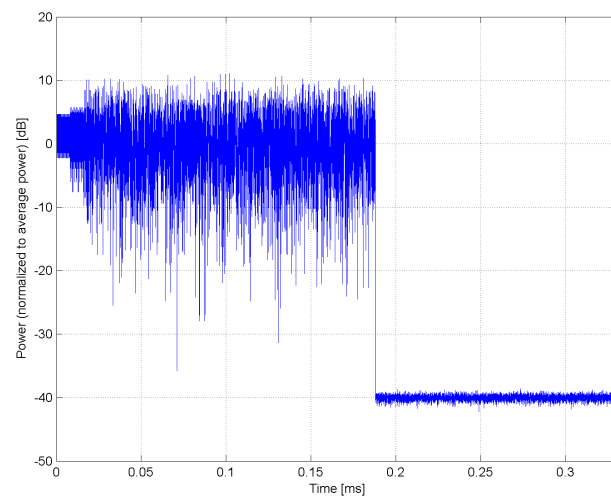
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)**

Group: WLAN
UID: 10069-CAE

PAR: ¹ **10.56 dB**
MIF: ² **-3.15 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
IEEE 802.11h-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

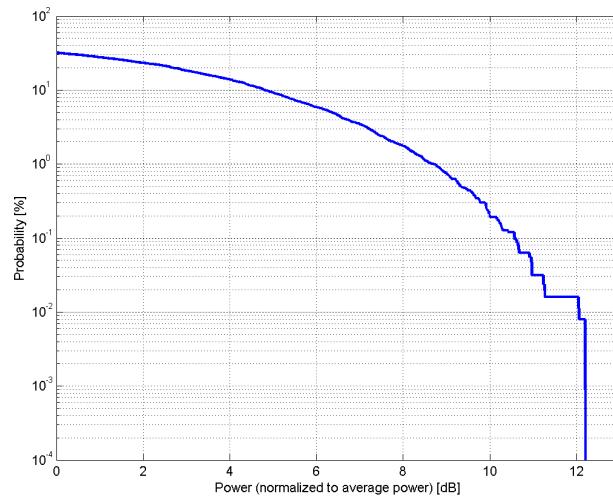
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Data Rate: 54 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 6
Coded bits per OFDM symbol: 288
Data bits per OFDM symbol: 216
PSDU Length: 1000 Bytes
PSDU Data: PN9

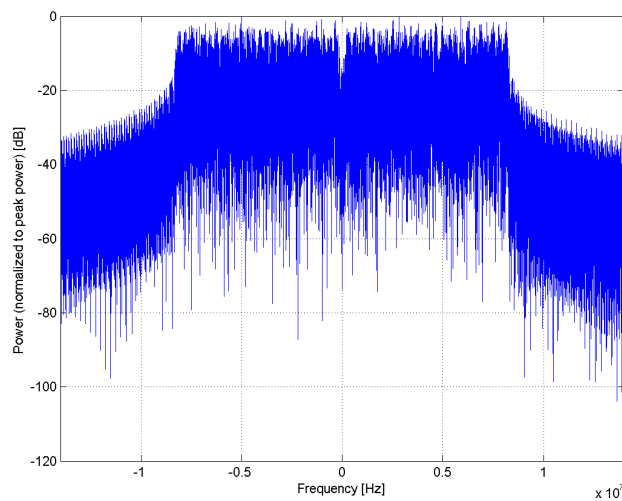
Bandwidth: 20.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

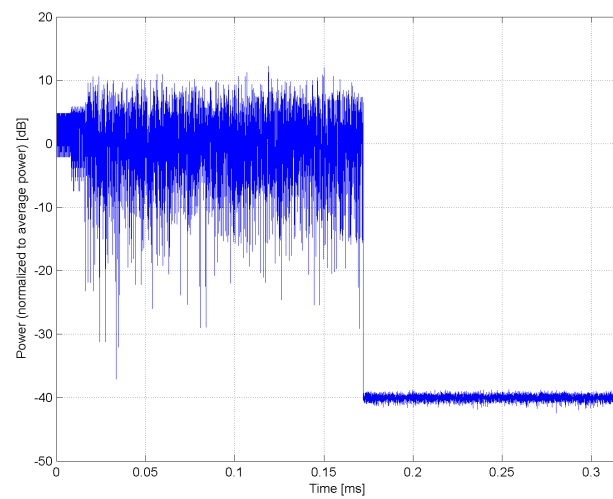
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



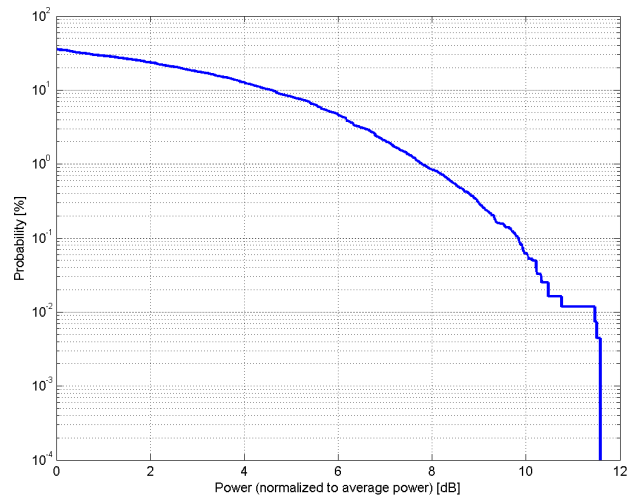
Time Domain

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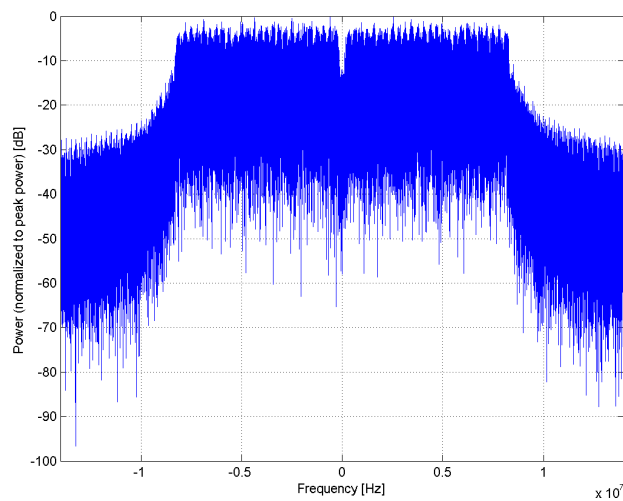
| | |
|-------------------------|---|
| Name: | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) |
| Group: | WLAN |
| UID: | 10071-CAB |
| PAR: ¹ | 9.83 dB |
| MIF: ² | -2.40 dB |
| Standard Reference: | IEEE 802.11g-2003 , Part 11 FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 9 Mbps Coding Rate: 3/4 Coded bits per subcarrier: 1 Coded bits per OFDM symbol: 48 Data bits per OFDM symbol: 36 PSDU Length: 1000 Bytes PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

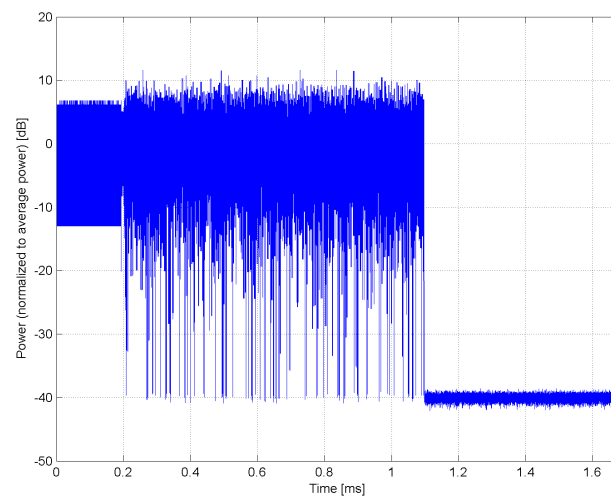
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)**

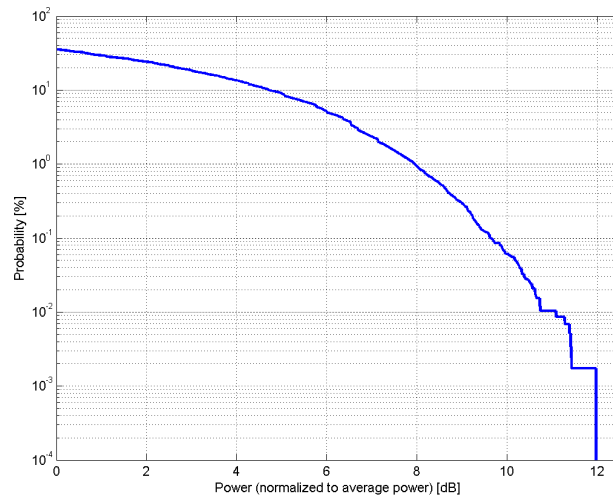
Group: WLAN
UID: 10072-CAB

PAR: ¹ **9.62 dB**
MIF: ² **-1.88 dB**

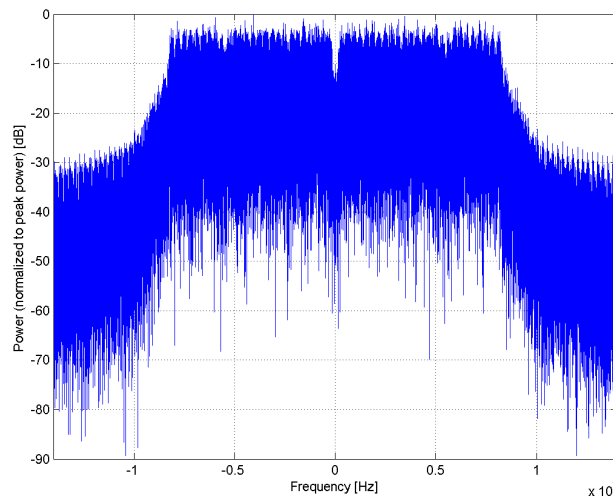
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Data Rate: 12 Mbps
Coding Rate: 1/2
Coded bits per subcarrier: 2
Coded bits per OFDM symbol: 96
Data bits per OFDM symbol: 48
PSDU Length: 1000 Bytes
PSDU Data: PN9
Bandwidth: 20.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

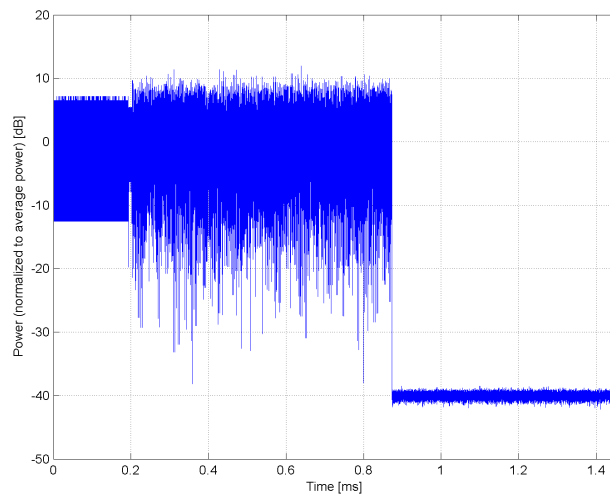
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



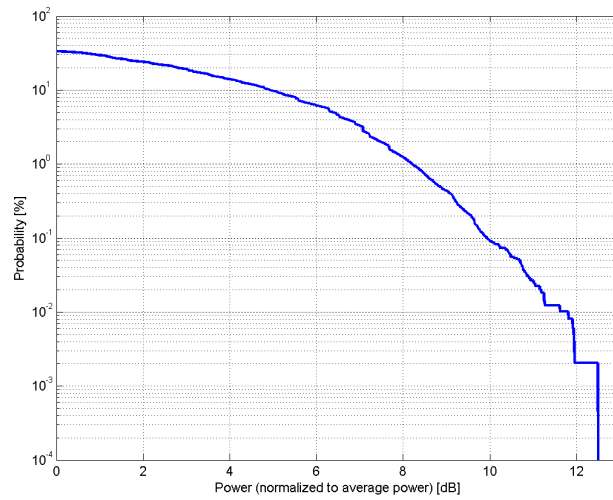
Time Domain

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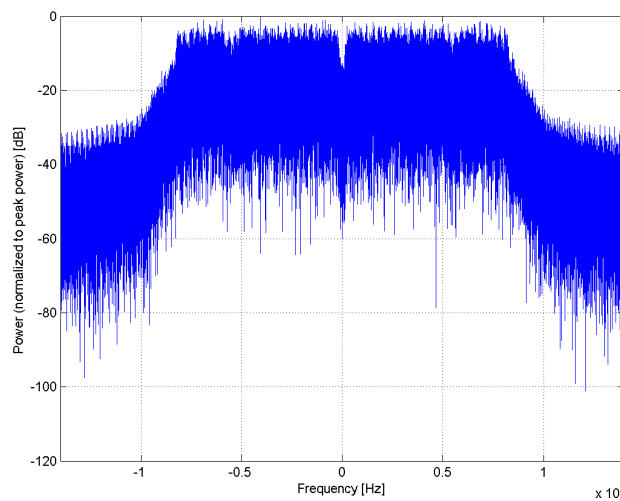
| | |
|-------------------------|--|
| Name: | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) |
| Group: | WLAN |
| UID: | 10073-CAB |
| PAR: ¹ | 9.94 dB |
| MIF: ² | -1.22 dB |
| Standard Reference: | IEEE 802.11g-2003 , Part 11 FCC SAR meas for 802 11 a b g v01r02 (248227 D01) |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Data Rate: 18 Mbps Coding Rate: 3/4 Coded bits per subcarrier: 2 Coded bits per OFDM symbol: 96 Data bits per OFDM symbol: 72 PSDU Length: 1000 Bytes PSDU Data: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.2 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

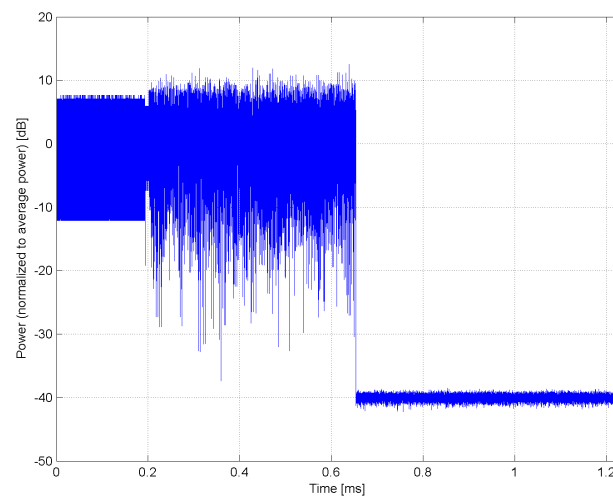
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)**

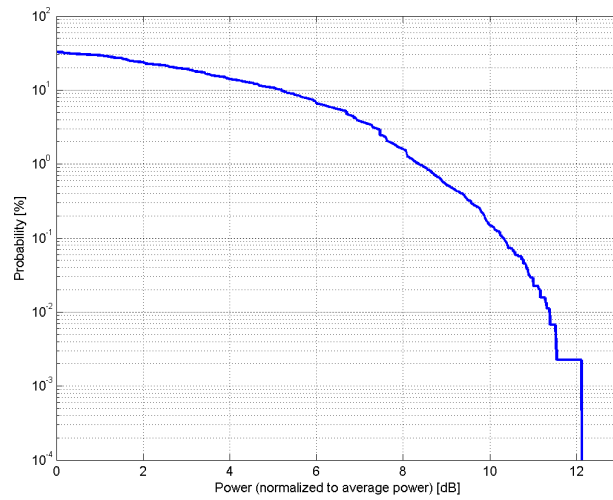
Group: WLAN
UID: 10074-CAB

PAR: ¹ **10.30 dB**
MIF: ² **-0.80 dB**

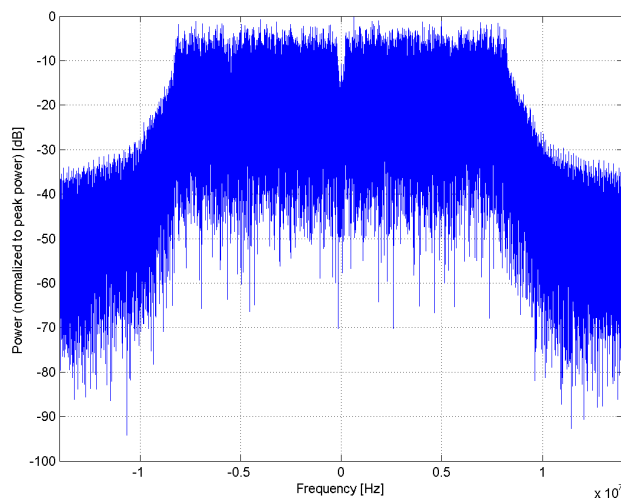
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Data Rate: 24 Mbps
Coding Rate: 1/2
Coded bits per subcarrier: 4
Coded bits per OFDM symbol: 192
Data bits per OFDM symbol: 96
PSDU Length: 1000 Bytes
PSDU Data: PN9
Bandwidth: 20.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

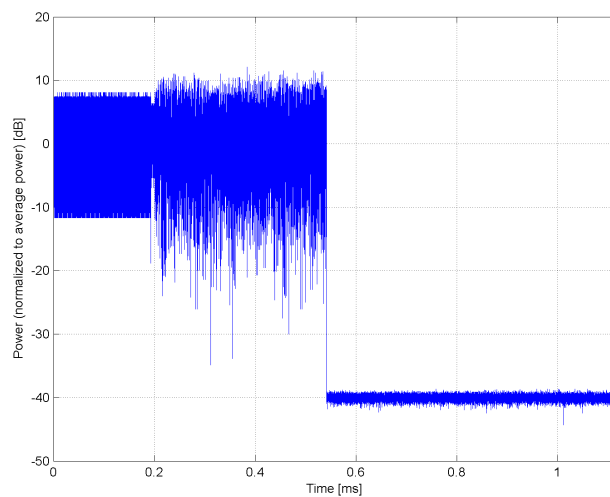
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)**

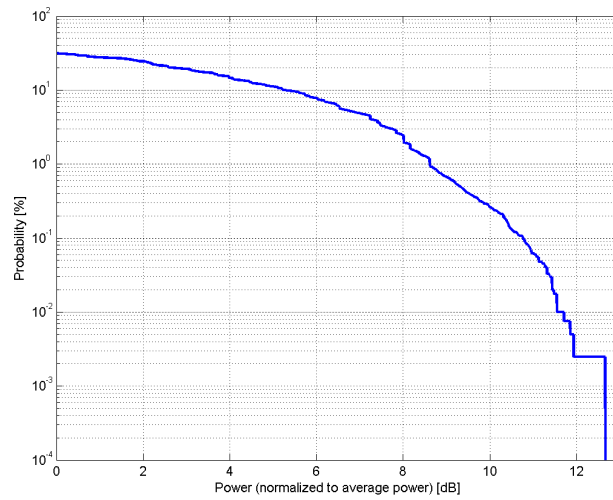
Group: WLAN
UID: 10075-CAB

PAR: ¹ **10.77 dB**
MIF: ² **-0.29 dB**

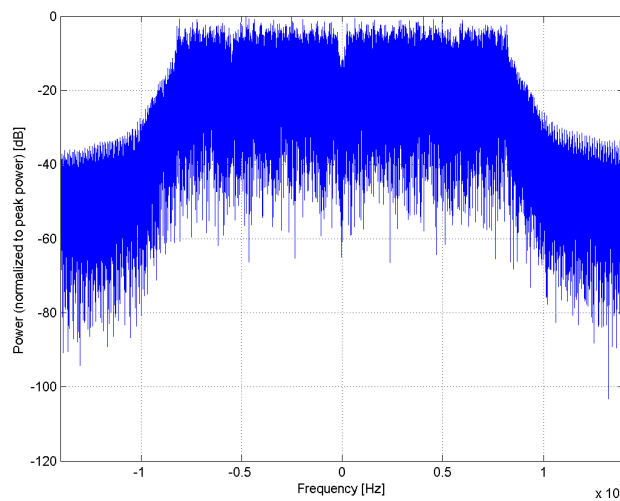
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Data Rate: 36 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 4
Coded bits per OFDM symbol: 192
Data bits per OFDM symbol: 144
PSDU Length: 1000 Bytes
PSDU Data: PN9
Bandwidth: 20.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

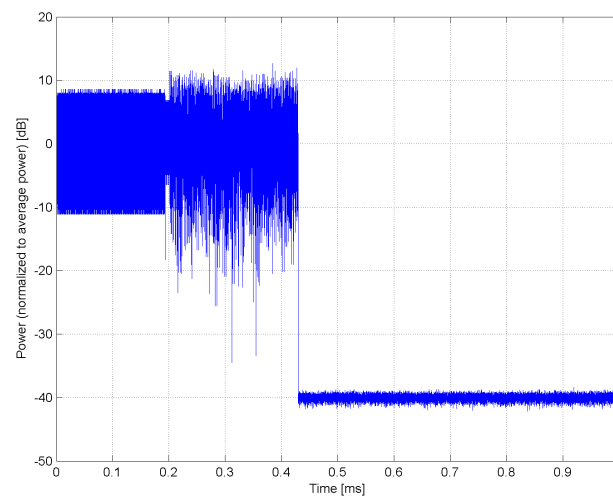
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)**

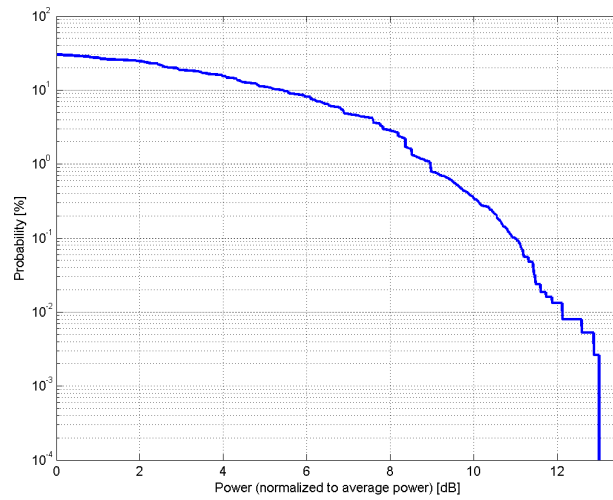
Group: WLAN
UID: 10076-CAB

PAR: ¹ **10.94 dB**
MIF: ² **0.02 dB**

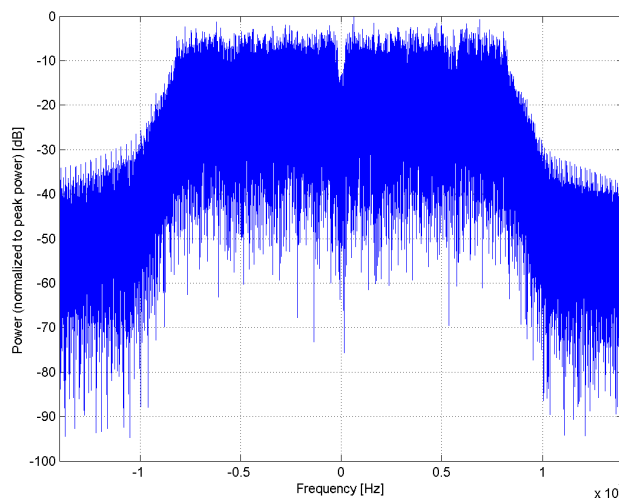
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Data Rate: 48 Mbps
Coding Rate: 2/3
Coded bits per subcarrier: 6
Coded bits per OFDM symbol: 288
Data bits per OFDM symbol: 192
PSDU Length: 1000 Bytes
PSDU Data: PN9
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

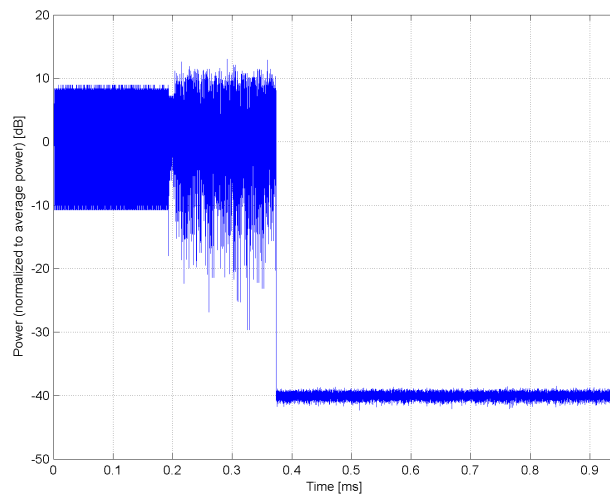
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)**

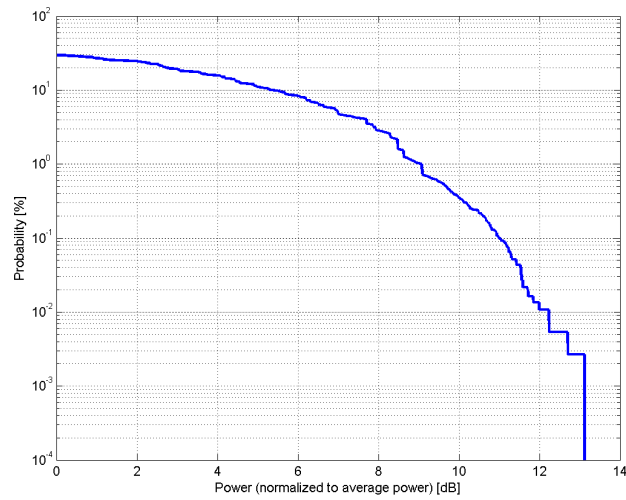
Group: WLAN
UID: 10077-CAB

PAR: ¹ **11.00 dB**
MIF: ² **0.12 dB**

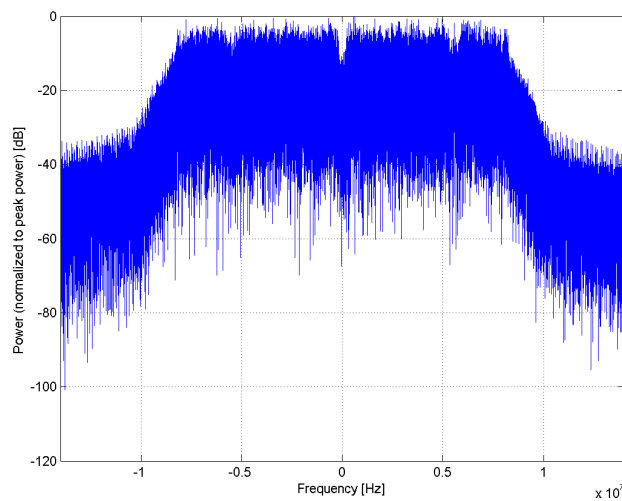
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Data Rate: 54 Mbps
Coding Rate: 3/4
Coded bits per subcarrier: 6
Coded bits per OFDM symbol: 288
Data bits per OFDM symbol: 216
PSDU Length: 1000 Bytes
PSDU Data: PN9
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

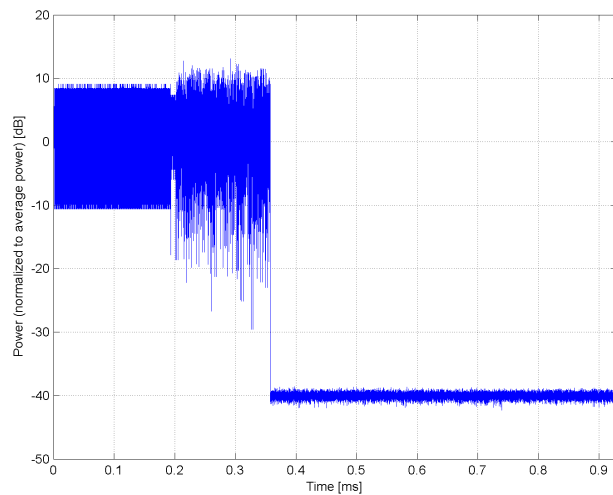
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



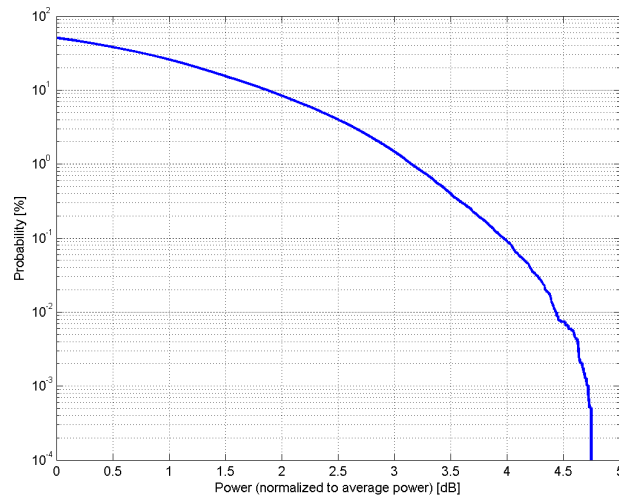
Time Domain

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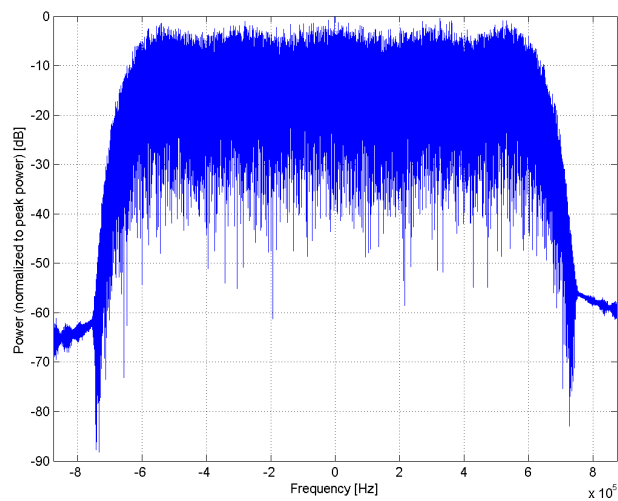
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xRTT, RC3) |
| Group: | CDMA2000 |
| UID: | 10081-CAB |
| PAR: ¹ | 3.97 dB |
| MIF: ² | -19.71 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configurations 3 (RC3) Output Slot: PICH, FCH 9.6 kpbs R-PITCH: Walsh Code 0, Code Power: -5.278 dB, Data Rate: N/A, Data: All "0" R-FCH: Walsh Code 4, Code Power -1.528 dB, Data Rate 9.6kbps, Data: PN9fix |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 80.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

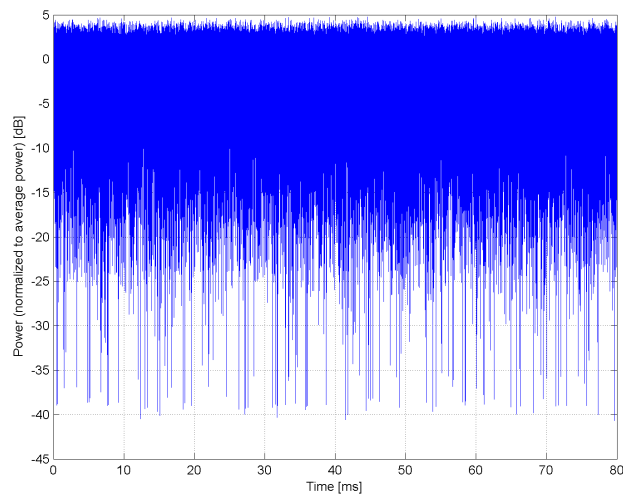
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



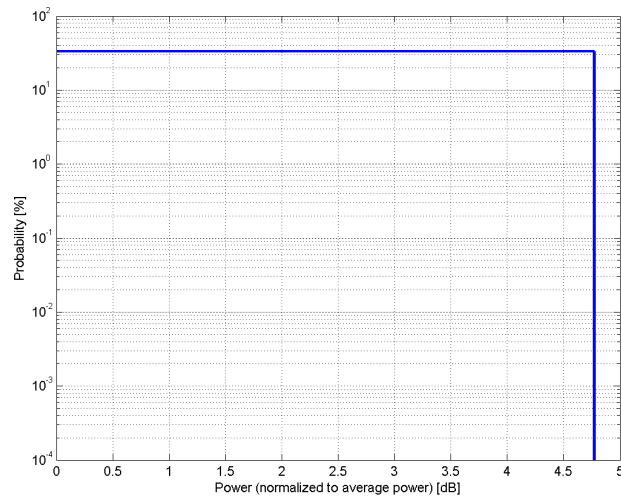
Time Domain

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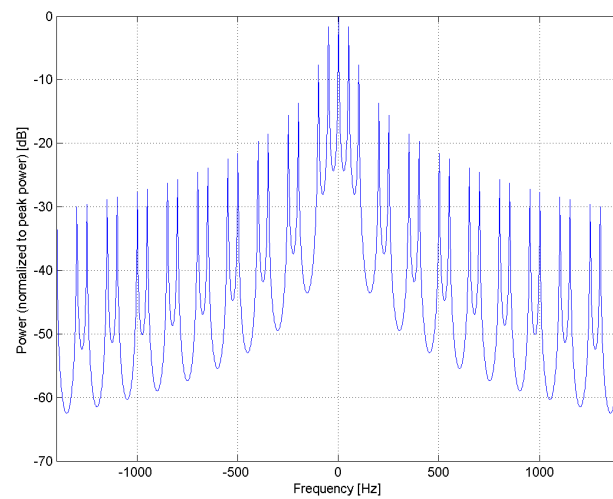
| | |
|-------------------------|--|
| Name: | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) |
| Group: | AMPS |
| UID: | 10082-CAB |
| PAR: ¹ | 4.77 dB |
| MIF: ² | -2.91 dB |
| Standard Reference: | TIA/EIA-136-110-B |
| Category: | |
| Modulation: | Pi/4-DQPSK |
| Frequency Band: | IS-136, 800MHz, 30kHz (824.0-849.0 MHz, 20222) IS-136, 800MHz, 200kHz (824.0-849.0 MHz, 20223) IS-136, 1900MHz, 30kHz (1850.0-1910.0 MHz, 20224) IS-136, 1900MHz, 200kHz (1850.0-1910.0 MHz, 20225) IS-136, 1900MHz, 30kHz (1920.0-1980.0 MHz, 20226) IS-136, 1900MHz, 200kHz (1920.0-1980.0 MHz, 20227) IS-136, 700MHz, 30kHz (747.0-762.0 MHz, 20228) IS-136, 700MHz, 200kHz (747.0-762.0 MHz, 20229) |
| Detailed Specification: | D-AMPS Multiple Access Method: TDMA/FDM Channel Spacing/Bandwidth: 30 kHz / 200 kHz Channel Bit Rate: 48.6 kbit/s Spectrum Efficiency: 1.62 bit/s/Hz Active Channels: 1 of 3 (Fullrate Channels) |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 20.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

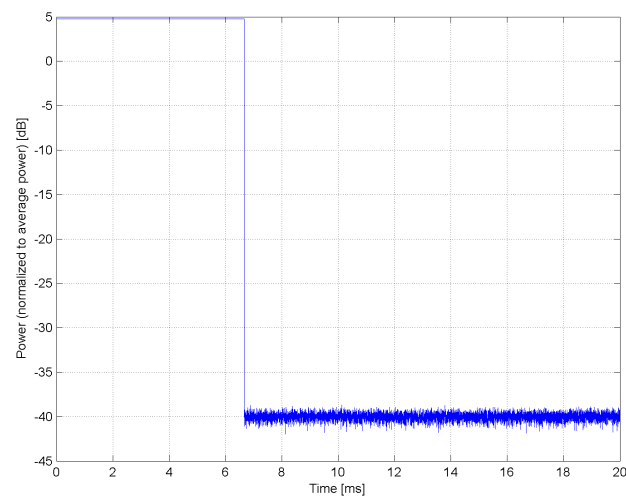
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



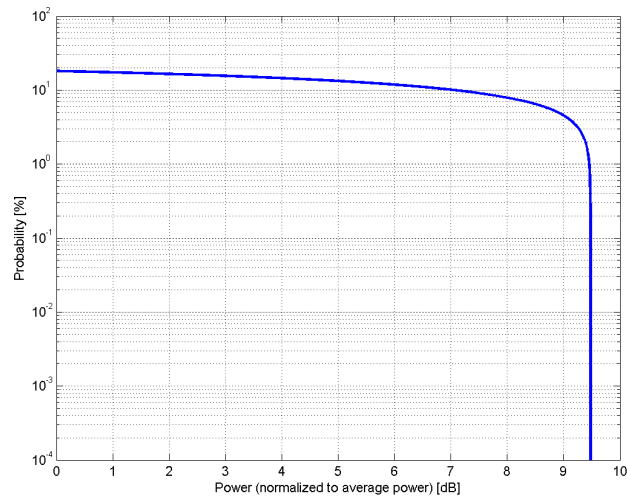
Time Domain

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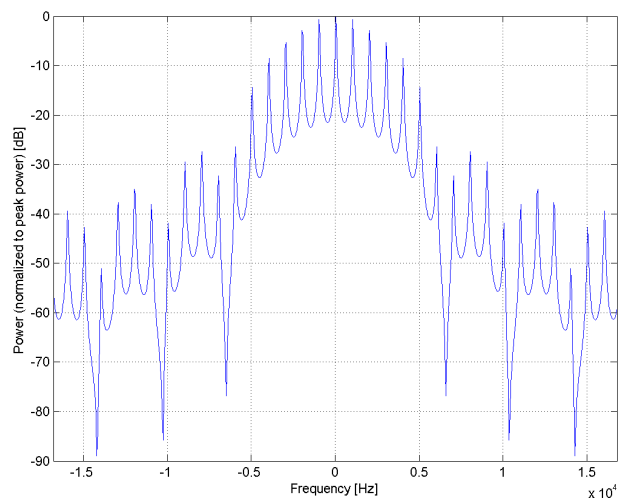
| | |
|-------------------------|--|
| Name: | FSE MRI sequence (pi Sinc, 1ms, 0.25 ms) |
| Group: | MRI |
| UID: | 10084-DAC |
| PAR: ¹ | 9.48 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Fast Spin Echo Pulse Shape: Sinc +/- Pi Repetition Rate: 1 kHz Duty Cycle: 25% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

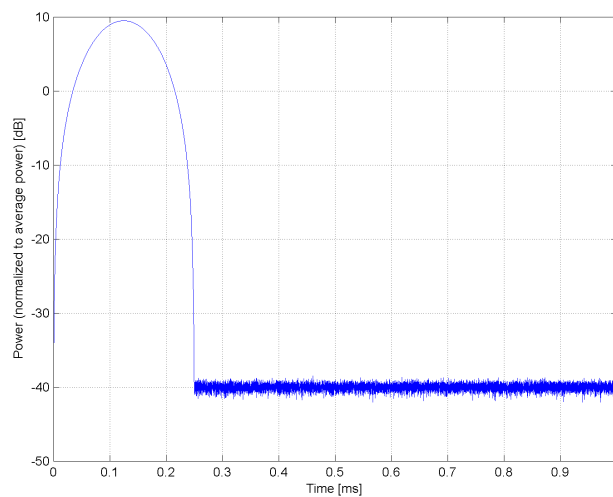
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



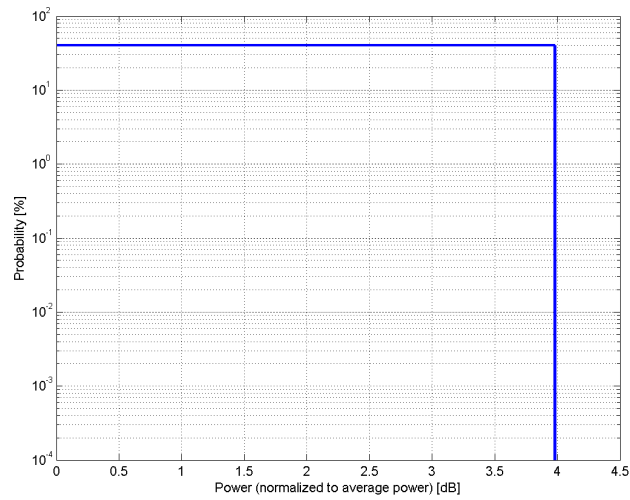
Time Domain

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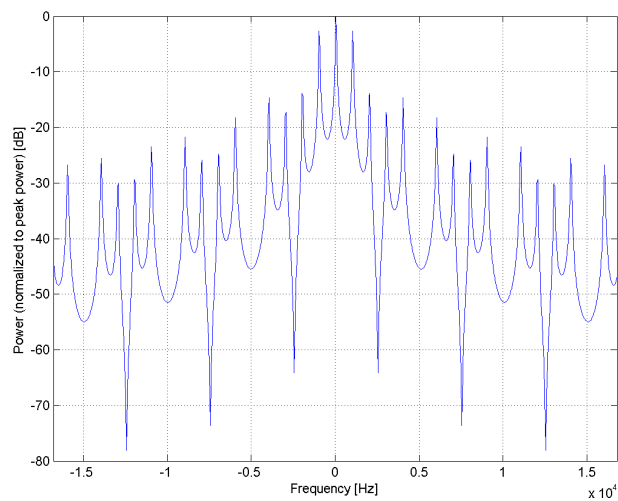
| | |
|-------------------------|--|
| Name: | MRI (Square, 1ms, 0.4ms) |
| Group: | MRI |
| UID: | 10089-CAC |
| PAR: ¹ | 3.98 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Custom Calibration Sequence Pulse Shape: rectangular Repetition Rate: 1 kHz Duty Cycle: 40% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

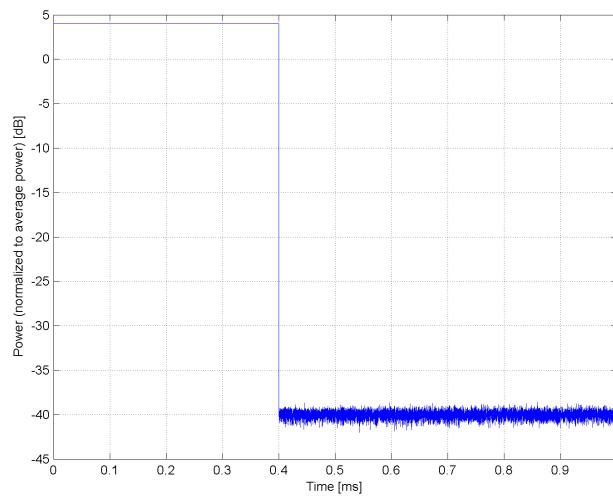
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



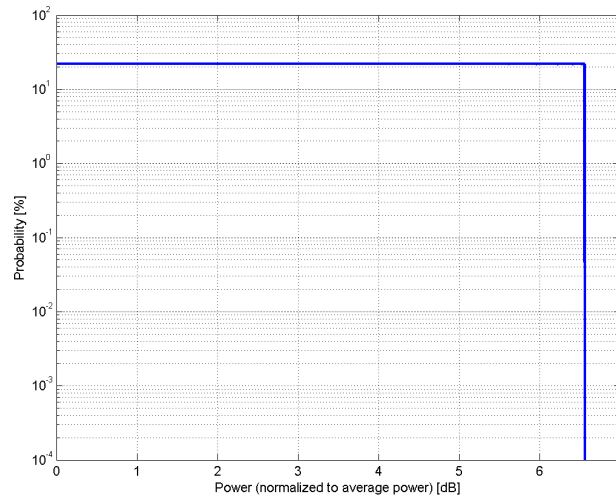
Time Domain

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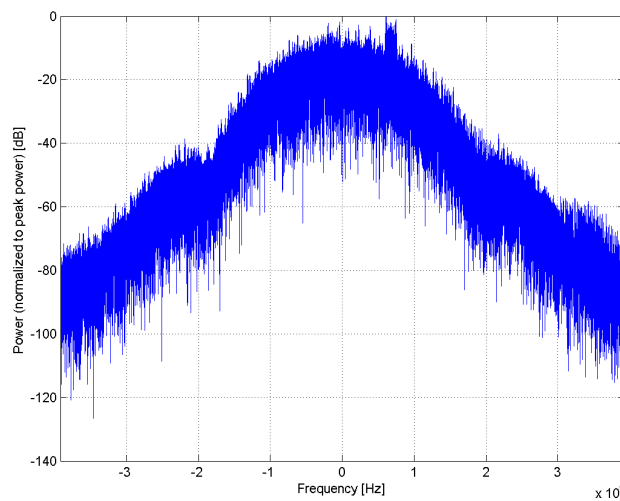
| | |
|-------------------------|--|
| Name: | GPRS-FDD (TDMA, GMSK, TN 0-4) |
| Group: | GSM |
| UID: | 10090-DAC |
| PAR: ¹ | 6.56 dB |
| MIF: ² | 1.81 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | GMSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN4 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for GMSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

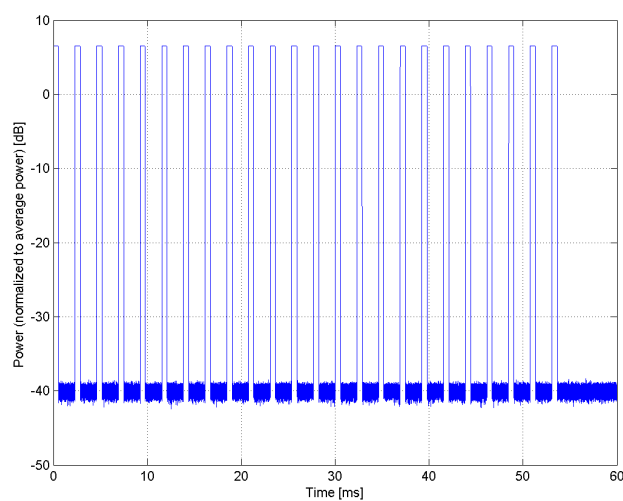
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



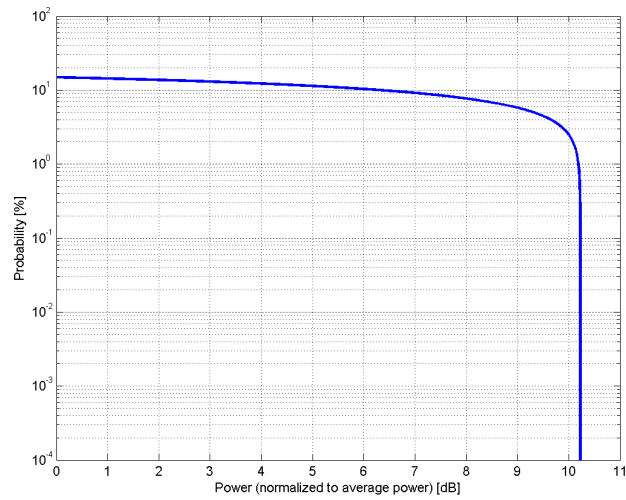
Time Domain

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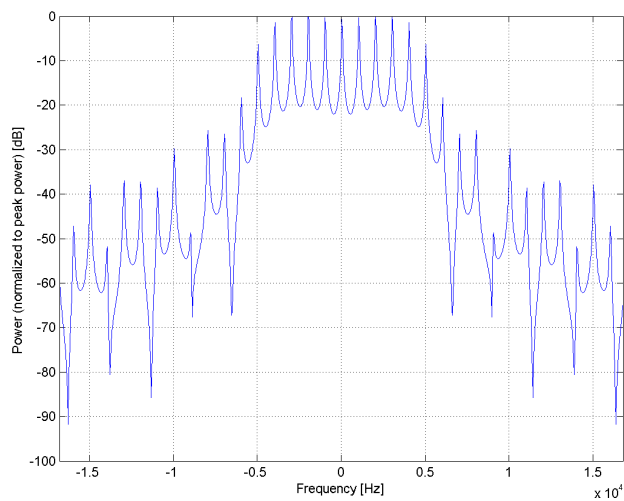
| | |
|-------------------------|--|
| Name: | MIT5 (2pi Sinc, 1ms, 0.4ms) |
| Group: | MRI |
| UID: | 10091-CAC |
| PAR: ¹ | 10.22 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 2 Pi Repetition Rate: 1 kHz Duty Cycle: 40% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

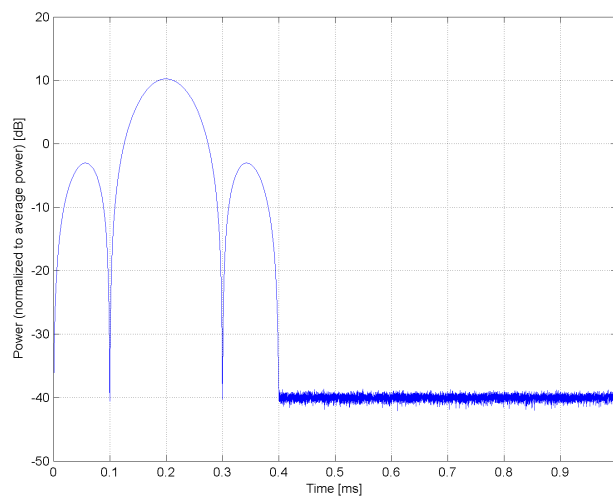
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



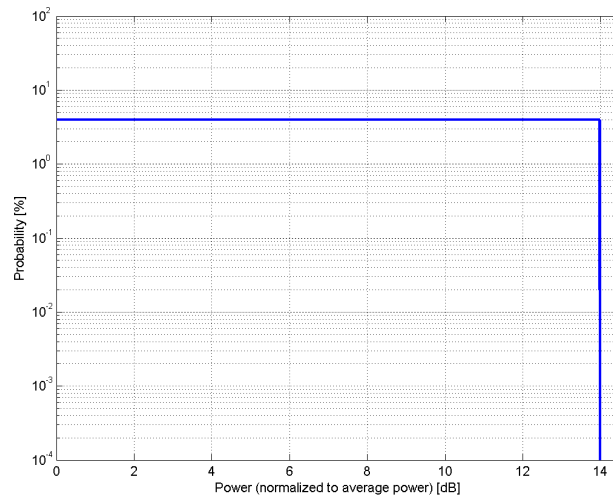
Time Domain

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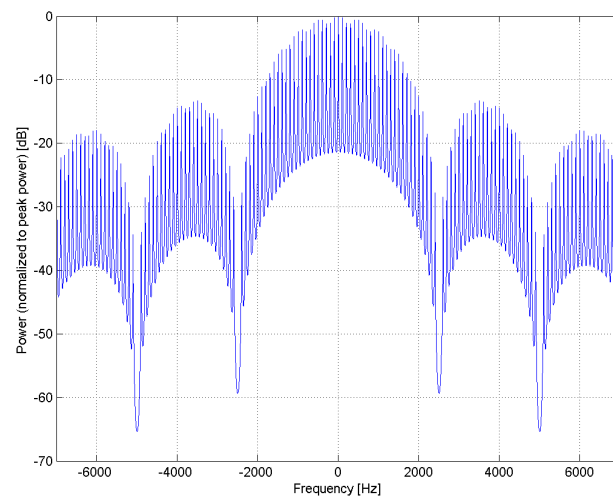
| | |
|-------------------------|--|
| Name: | MRI (Square, 10ms, 0.4ms) |
| Group: | MRI |
| UID: | 10093-CAC |
| PAR: ¹ | 13.98 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 100 Hz Duty Cycle: 4% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

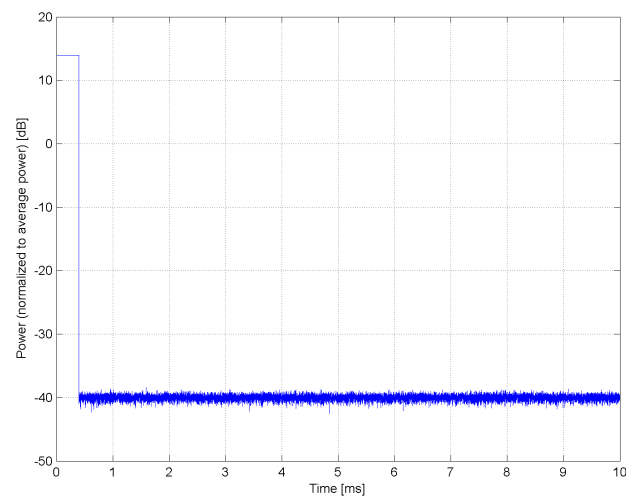
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (HSDPA)**

Group: WCDMA
UID: 10097-CAC

PAR: ¹ **3.98 dB**
MIF: ² **-20.75 dB**

Standard Reference: ETSI-3GPP TS 134.121 Rel. 5
FCC OET KDB 941225 D01 SAR test for 3G devices v02

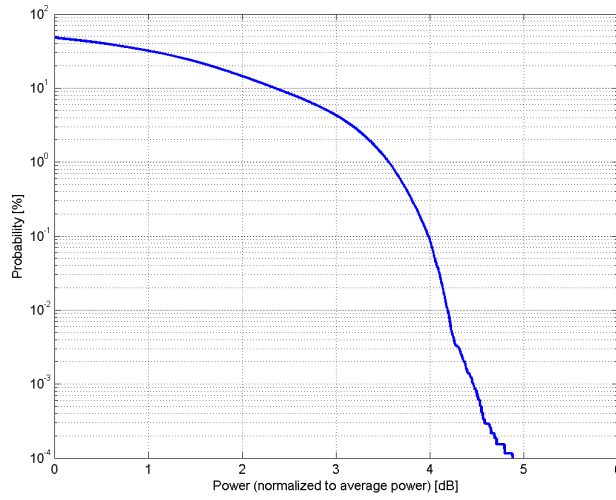
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: CQI value: 2
Sub-test 2 Conditions:
DPCCH gain factor (Beta.c) = 12/15
DPDCH gain factor (Beta.d): 15/15

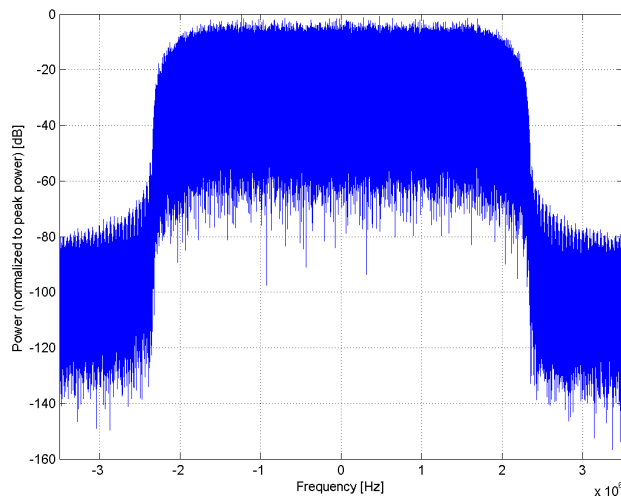
Bandwidth: 5.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

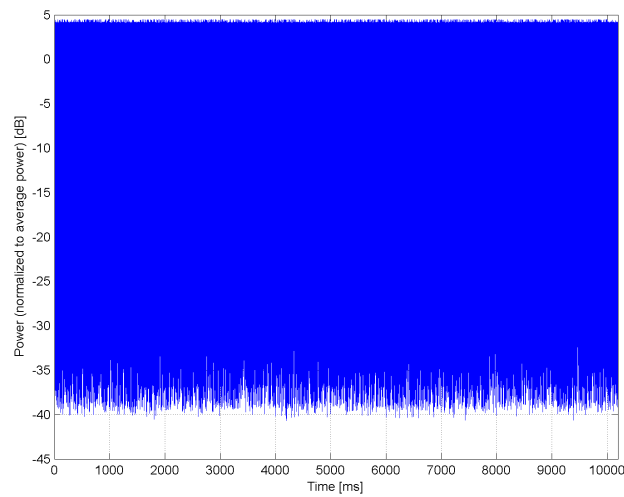
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (HSUPA, Subtest 2)**

Group: WCDMA
UID: 10098-CAC

PAR: ¹ **3.98 dB**
MIF: ² **-20.75 dB**

Standard Reference: 3GPP Rel 5 TS34.121

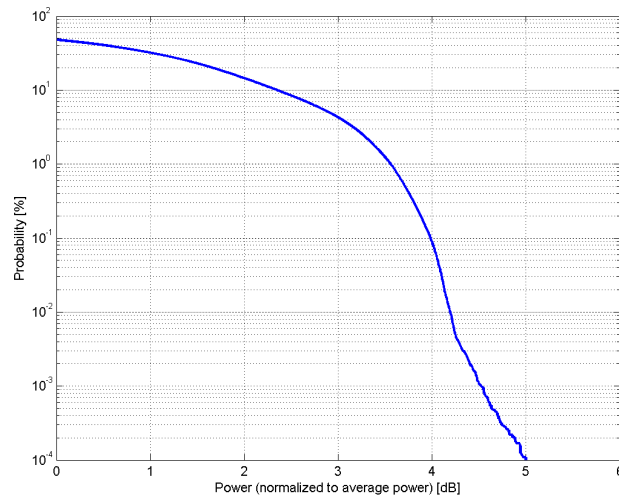
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: 12.2 kbps RMC, FRC H-Set 1
CQI value: 2
Sub-test 2 Conditions:
DPCCCH gain factor (Beta.c) = 12/15
DPDCH gain factor (Beta.d): 15/15

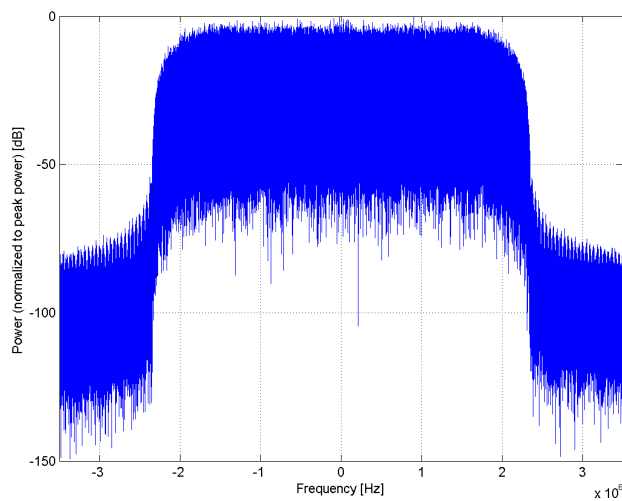
Bandwidth: 5.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

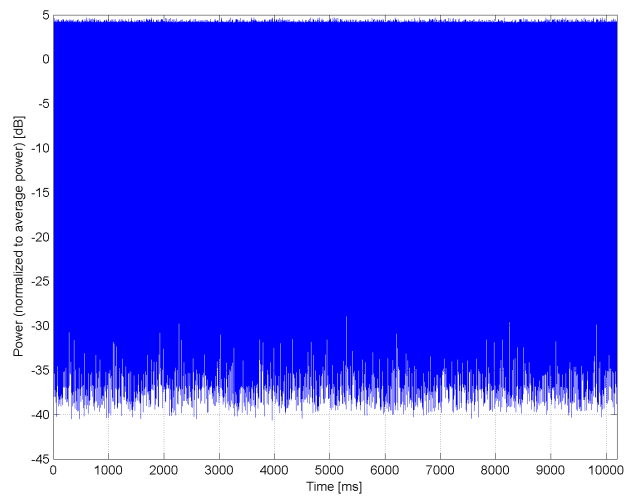
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



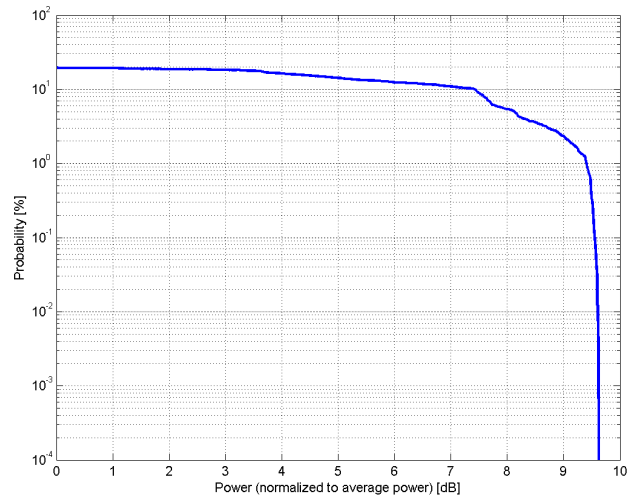
Time Domain

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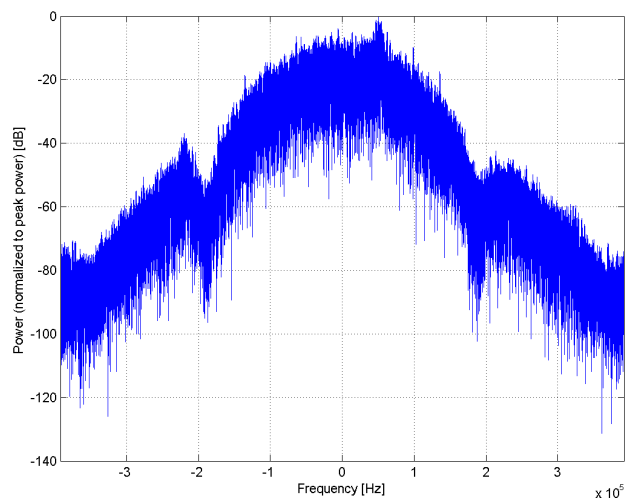
| | |
|-------------------------|--|
| Name: | EDGE-FDD (TDMA, 8PSK, TN 0-4) |
| Group: | GSM |
| UID: | 10099-DAC |
| PAR: ¹ | 9.55 dB |
| MIF: ² | 1.88 dB |
| Standard Reference: | ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04 |
| Category: | Periodic pulsed modulation |
| Modulation: | 8PSK |
| Frequency Band: | GSM 450 (450.4 - 457.6 MHz) GSM 480 (478.8 - 486.0 MHz) GSM 710 (698.0 - 716.0 MHz) GSM 750 (747.0 - 763.0 MHz) GSM 850 (824.0 - 849.0 MHz) P-GSM 900 (890.0 - 915.0 MHz) E-GSM 900 (880.0 - 915.0 MHz) R-GSM 900 (876.0 - 915.0 MHz) DCS 1800 (1710.0 - 1785.0 MHz) PCS 1900 (1850.0 - 1910.0 MHz) ER-GSM 900 (873.0 - 915.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Active Slots: TN0, TN4 Data: PN9 continuous Frame: composed out of 8 Slots Multiframe: 13th (PTCCH) and 26th (IDLE) Frame set blank Slottype & -timing: Normal burst for 8PSK |
| Bandwidth: | 0.2 MHz |
| Integration Time: | 60.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

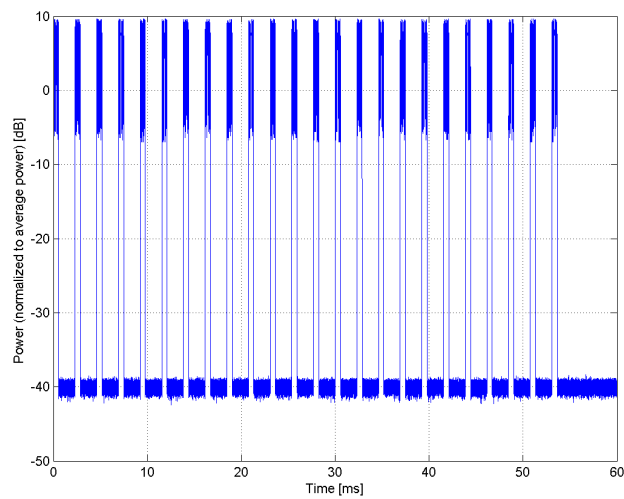
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



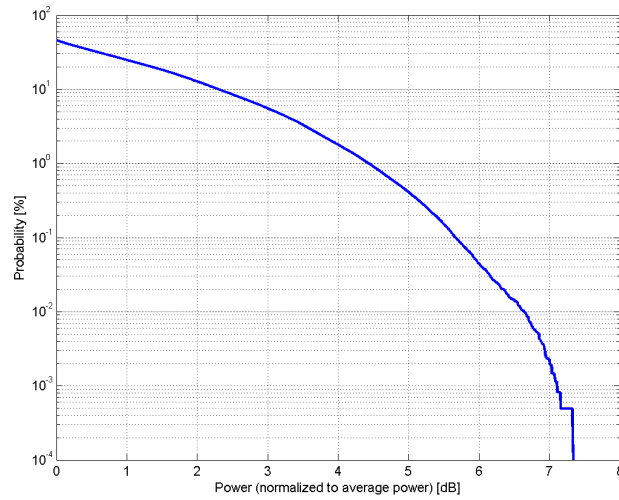
Time Domain

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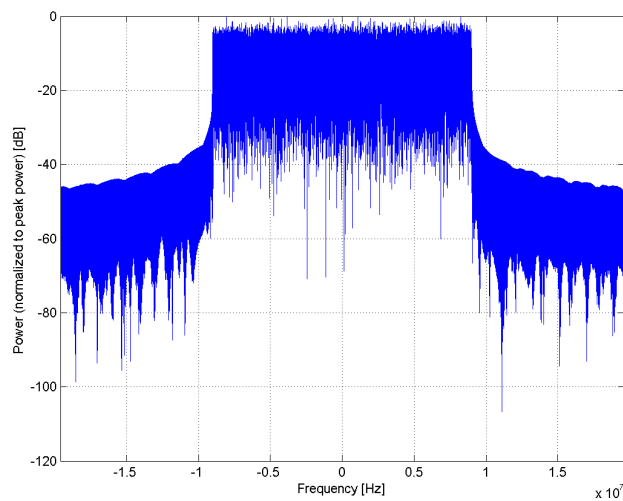
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10100-CAF |
| PAR: ¹ | 5.67 dB |
| MIF: ² | -23.48 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 100 Transport Block Size: 8760 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

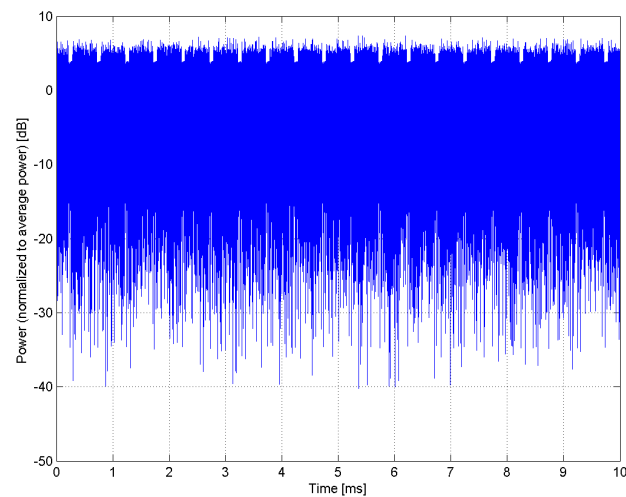
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10101-CAF

PAR: ¹ **6.42 dB**
MIF: ² **-17.86 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

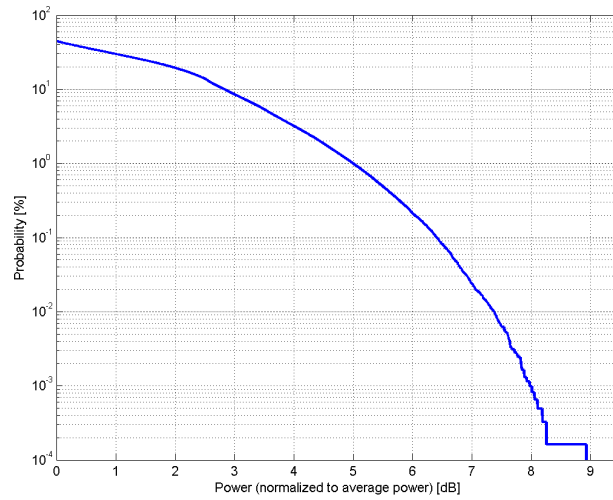
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16-QAM
Data Type: UL-SCH
Number RB: 100
Transport Block Size: 28336
TBS Index: 14
MCS Index: 15
Data Type: PN9

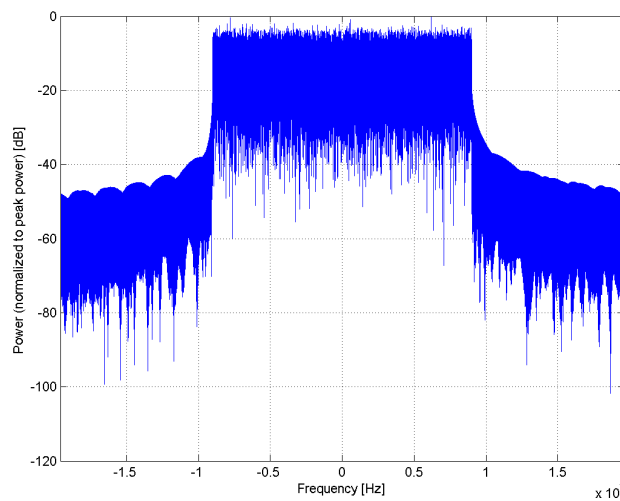
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

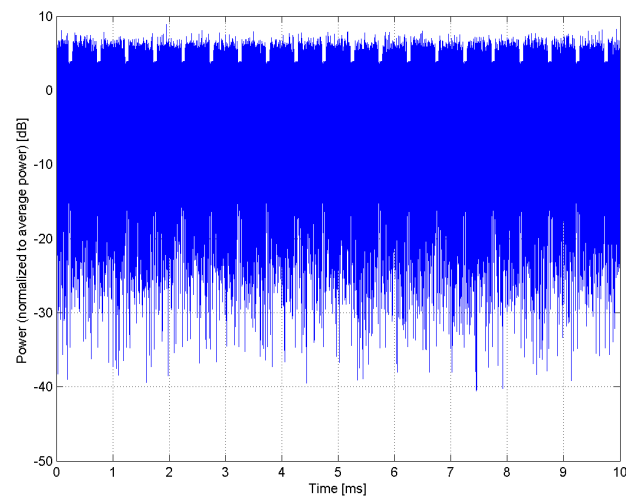
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10102-CAF

PAR: ¹ **6.60 dB**
MIF: ² **-17.05 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

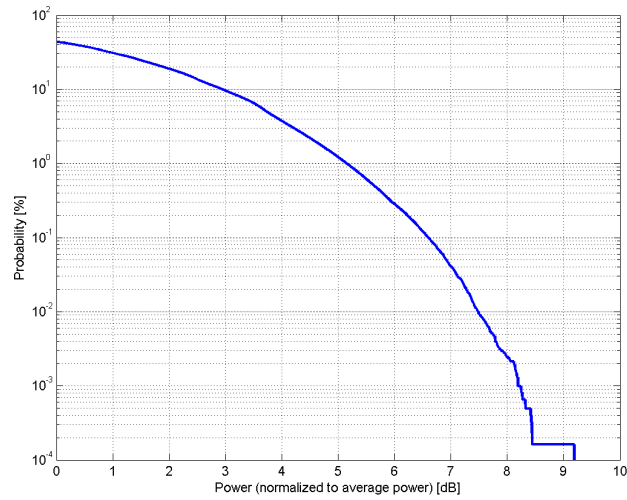
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64-QAM
Data Type: UL-SCH
Number RB: 100
Transport Block Size: 57336
TBS Index: 23
MCS Index: 25
Data Type: PN9

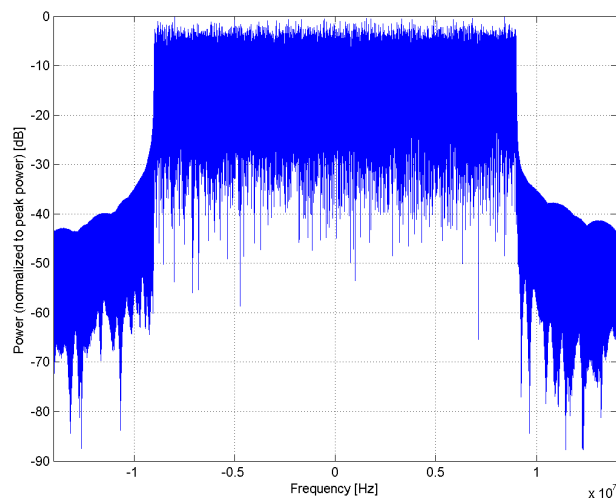
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

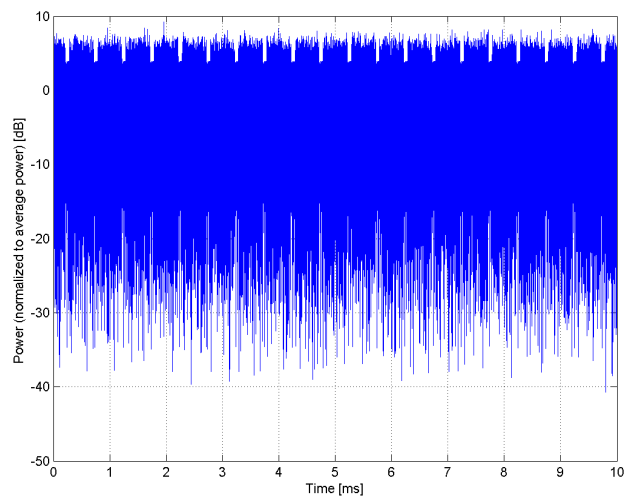
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)**

Group: LTE-TDD
UID: 10103-CAH

PAR: ¹ **9.29 dB**
MIF: ² **-1.64 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

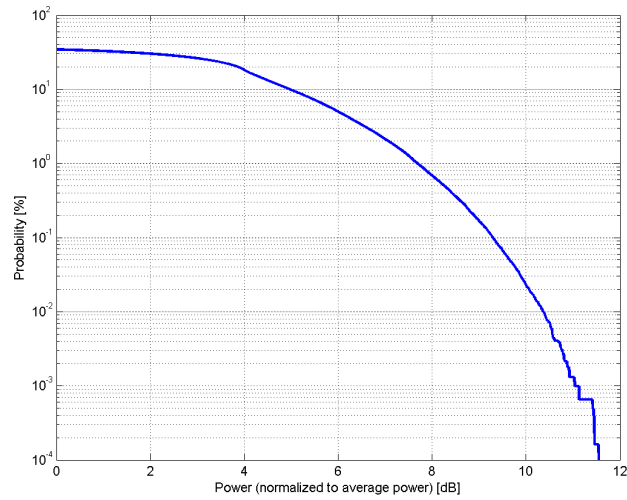
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

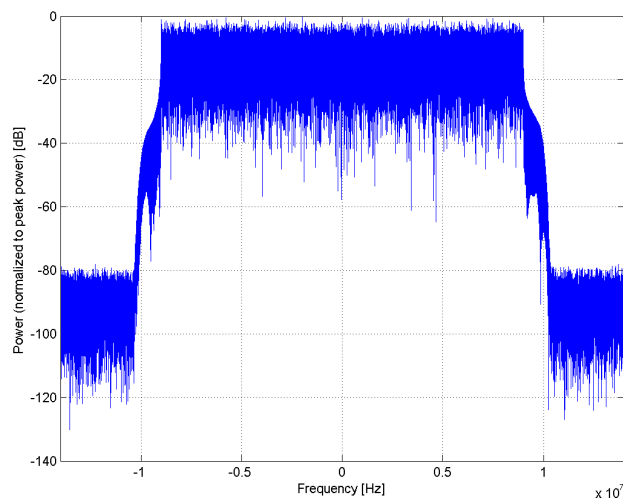
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

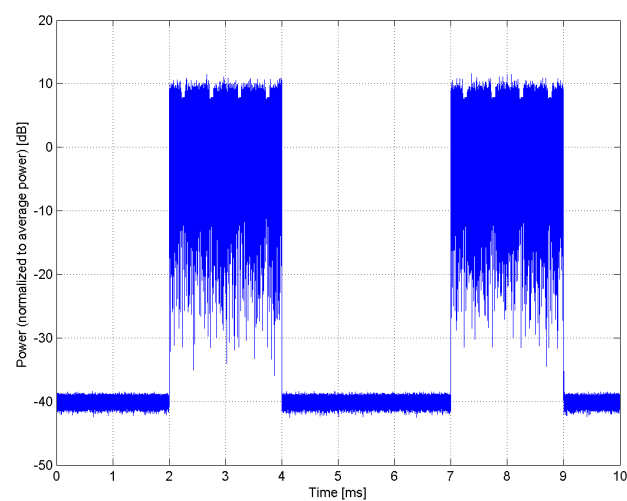
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10104-CAH

PAR: ¹ **9.97 dB**
MIF: ² **-1.66 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

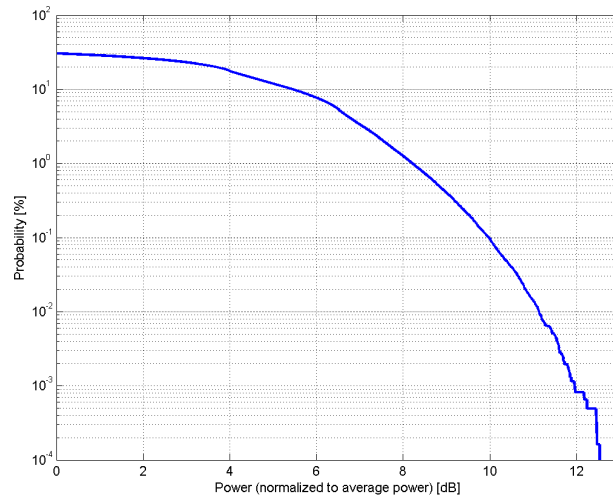
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

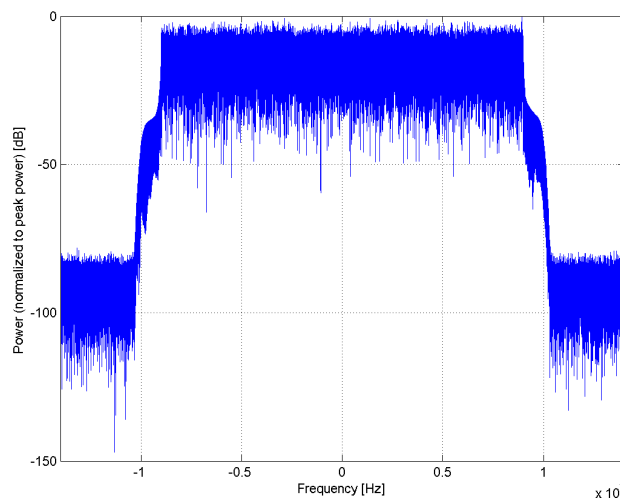
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

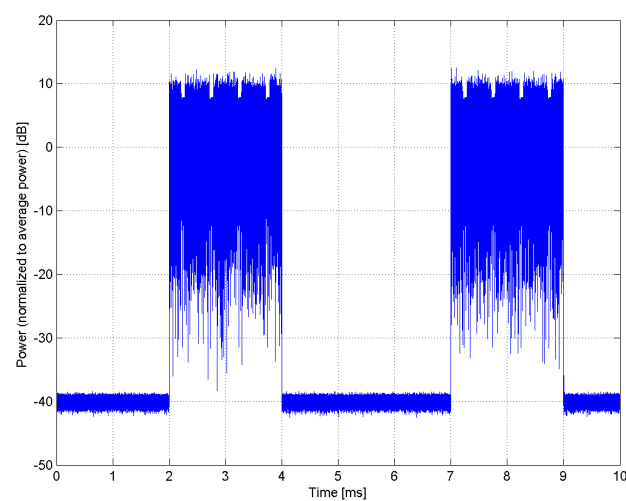
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10105-CAH

PAR: ¹ **10.01 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

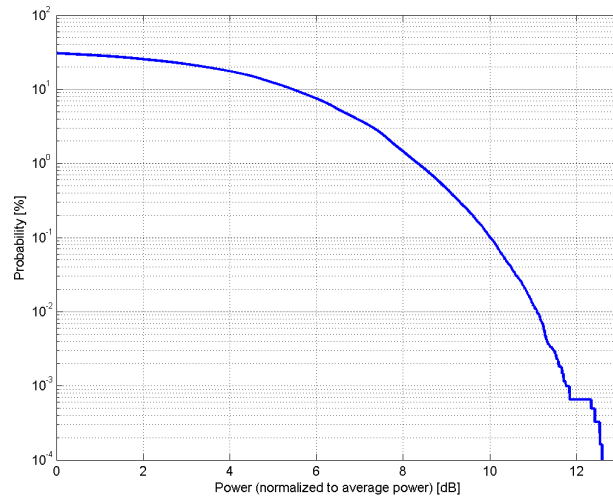
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

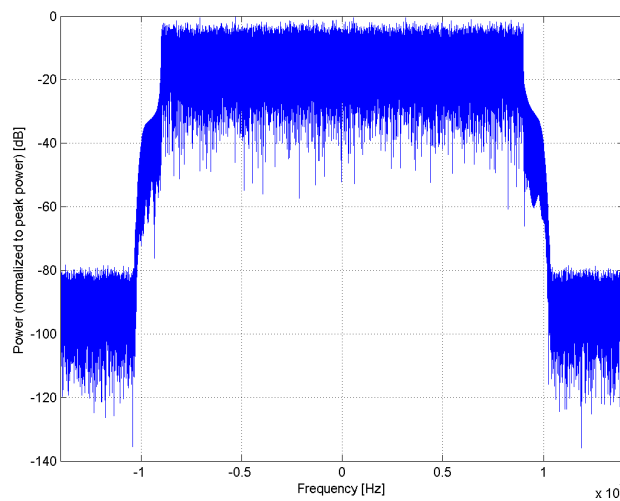
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

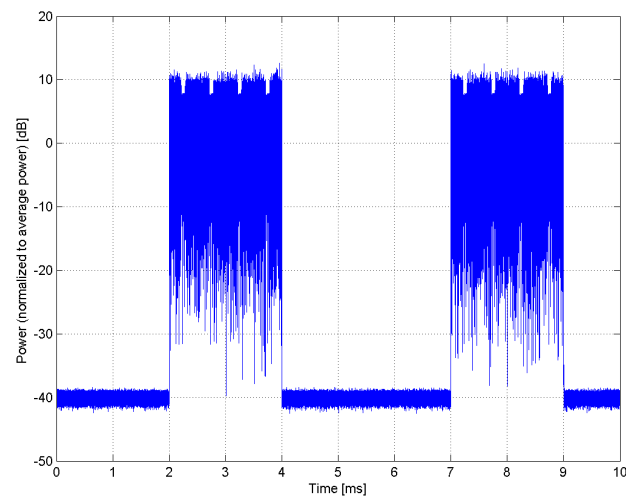
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)**

Group: LTE-FDD
UID: 10108-CAH

PAR: ¹ **5.80 dB**
MIF: ² **-21.57 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

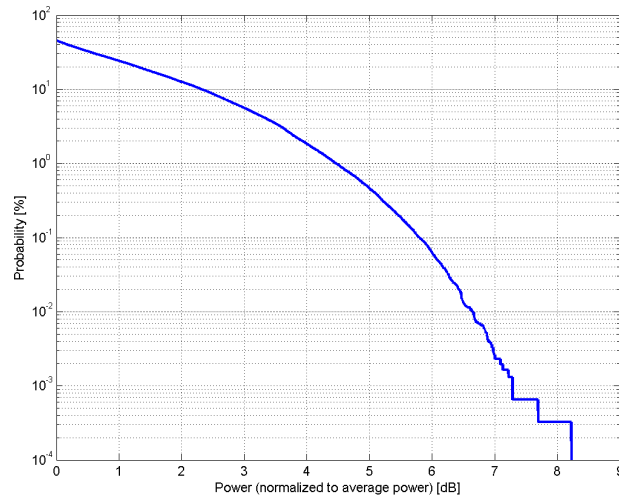
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 50
Transport Block Size: 4392
TBS Index: 5
MCS Index: 5
Data Type: PN9

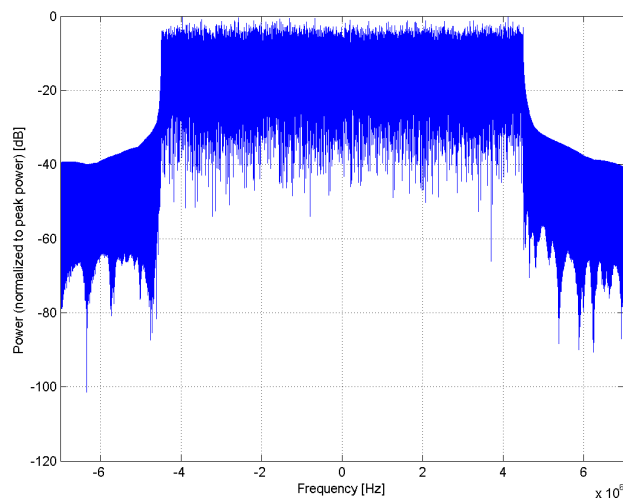
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

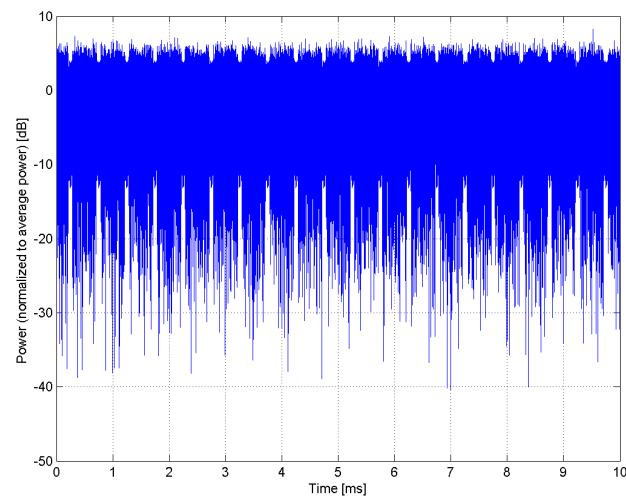
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10109-CAH

PAR: ¹ **6.43 dB**
MIF: ² **-16.87 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

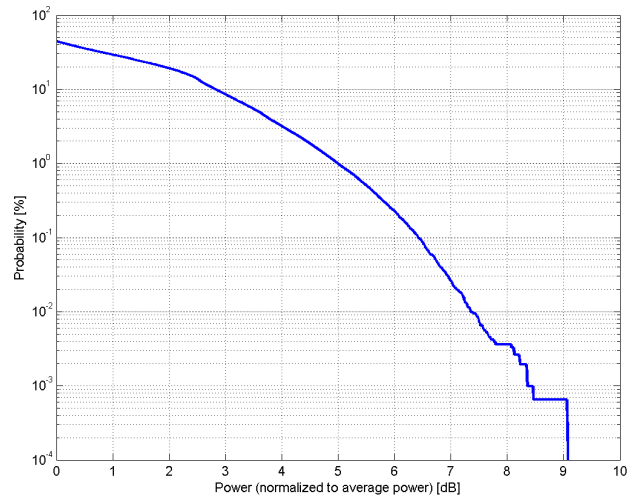
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16-QAM
Data Type: UL-SCH
Number RB: 50
Transport Block Size: 14112
TBS Index: 14
MCS Index: 15
Data Type: PN9

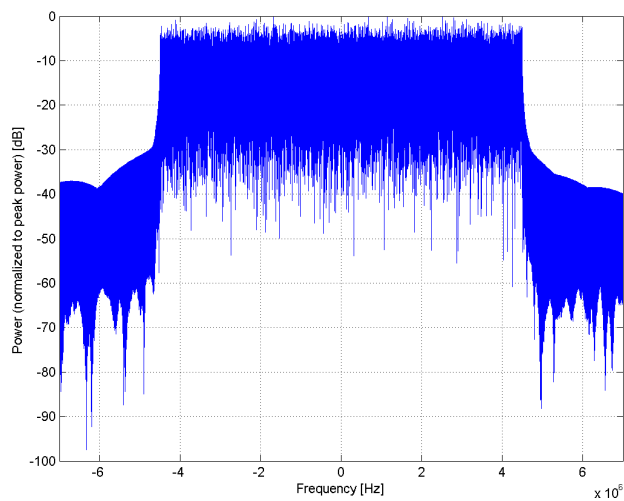
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

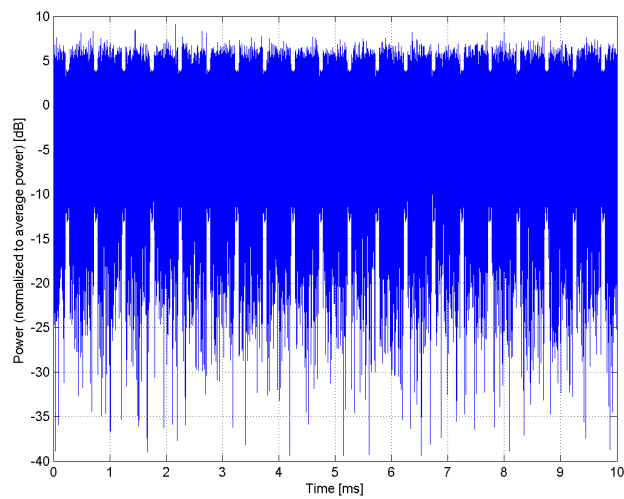
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



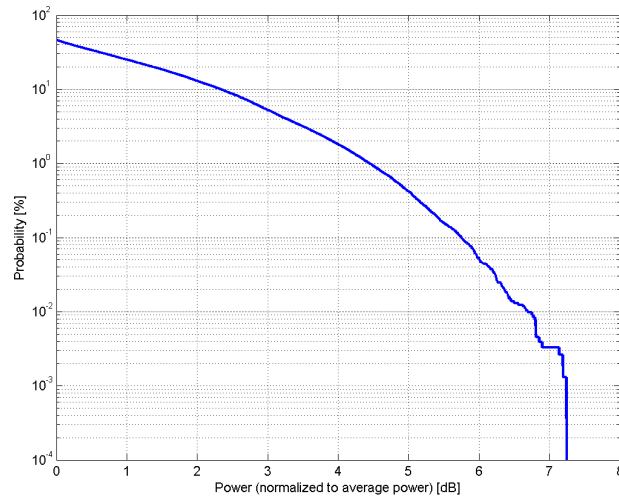
Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

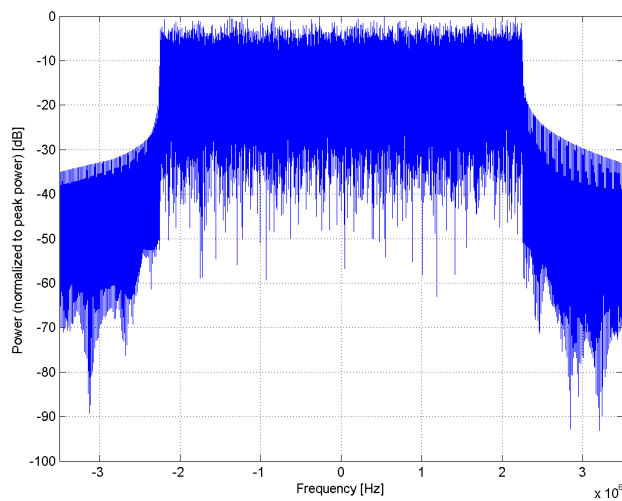
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10110-CAH |
| PAR: ¹ | 5.75 dB |
| MIF: ² | -23.39 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 25 Transport Block Size: 2216 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

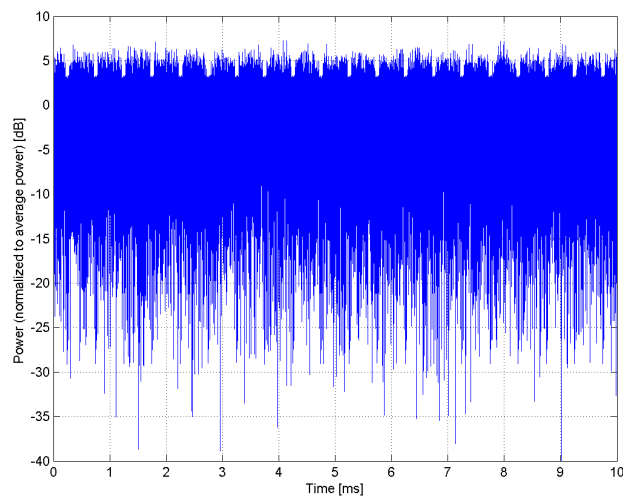
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



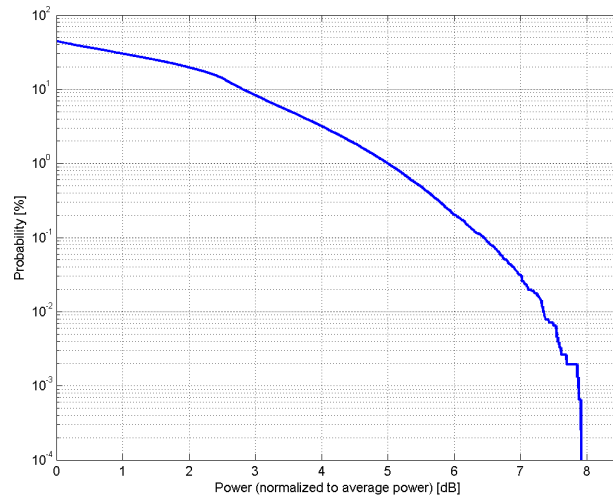
Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

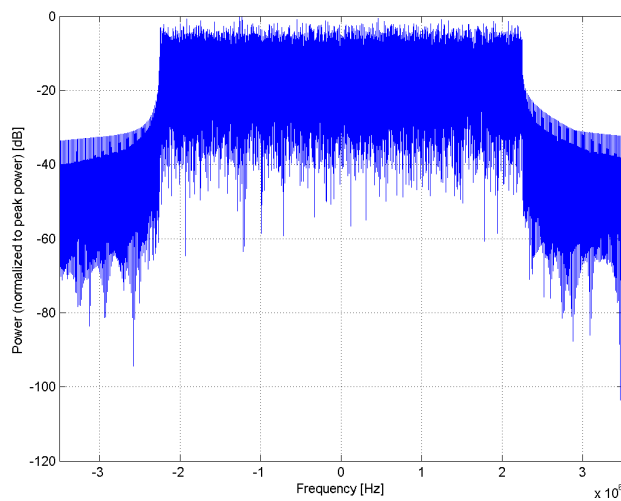
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10111-CAH |
| PAR: ¹ | 6.44 dB |
| MIF: ² | -16.35 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16-QAM Data Type: UL-SCH Number RB: 25 Transport Block Size: 7224 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

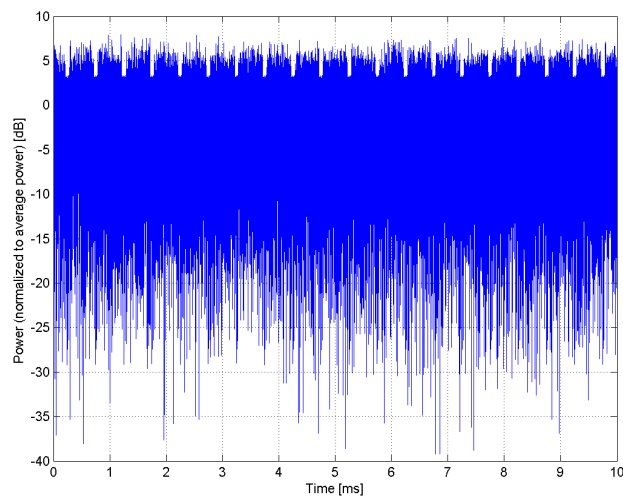
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10112-CAH

PAR: ¹ **6.59 dB**
MIF: ² **-16.34 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

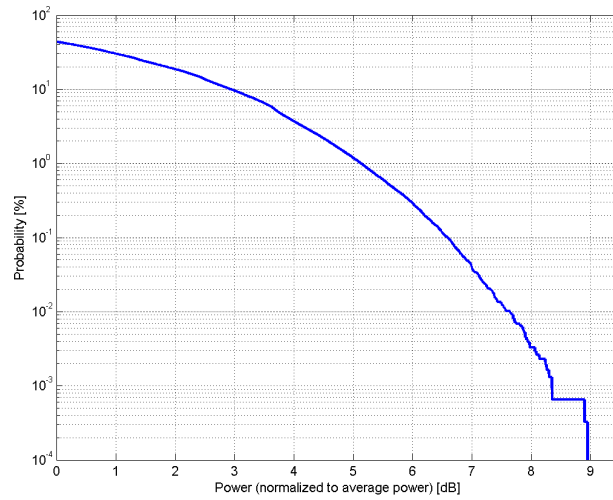
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64-QAM
Data Type: UL-SCH
Number RB: 50
Transport Block Size: 28336
TBS Index: 23
MCS Index: 25
Data Type: PN9

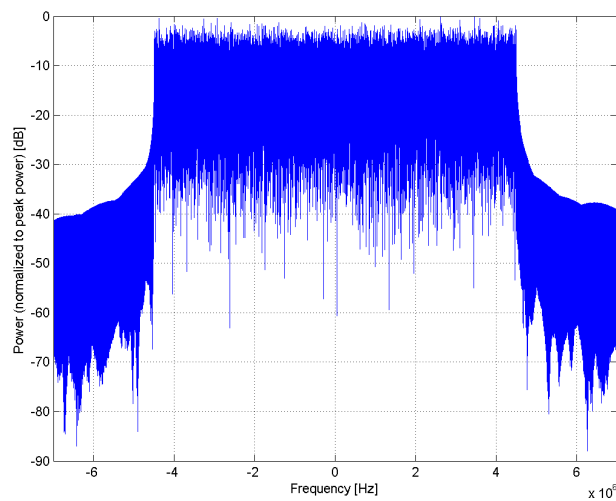
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

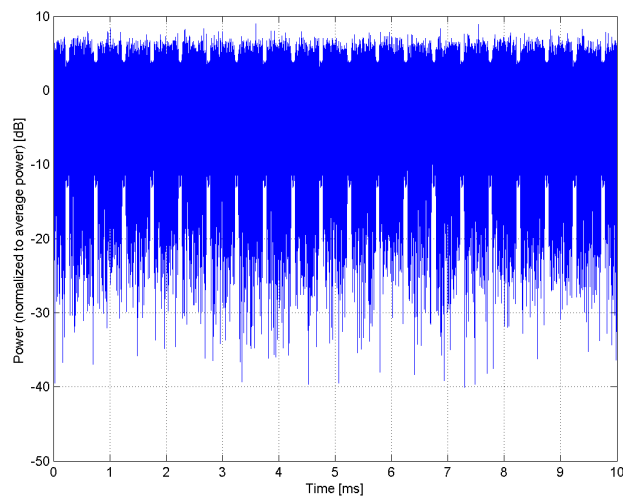
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



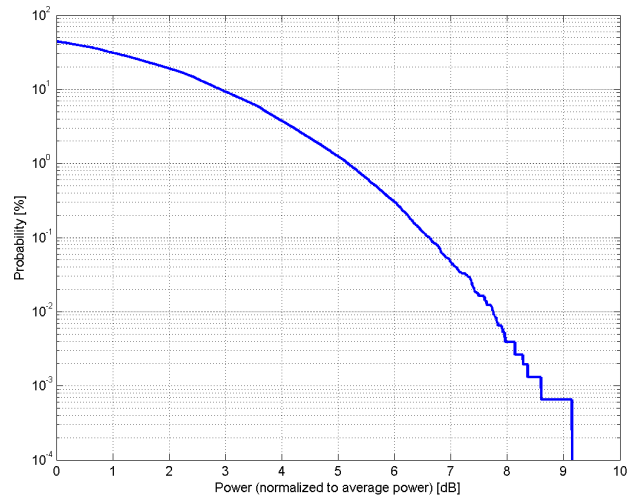
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

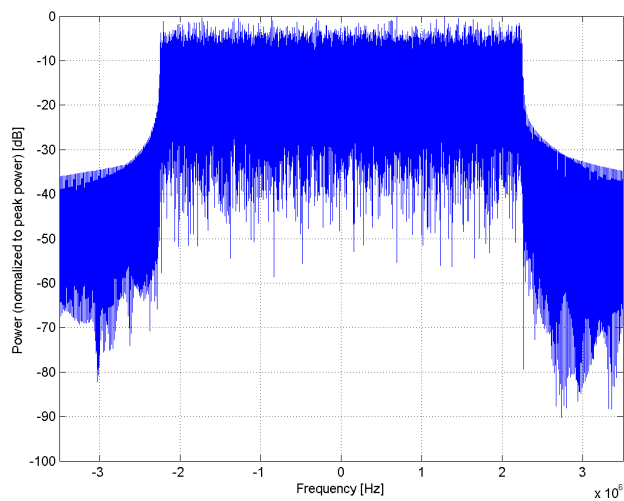
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10113-CAH |
| PAR: ¹ | 6.62 dB |
| MIF: ² | -15.98 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64-QAM Data Type: UL-SCH Number RB: 25 Transport Block Size: 14112 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

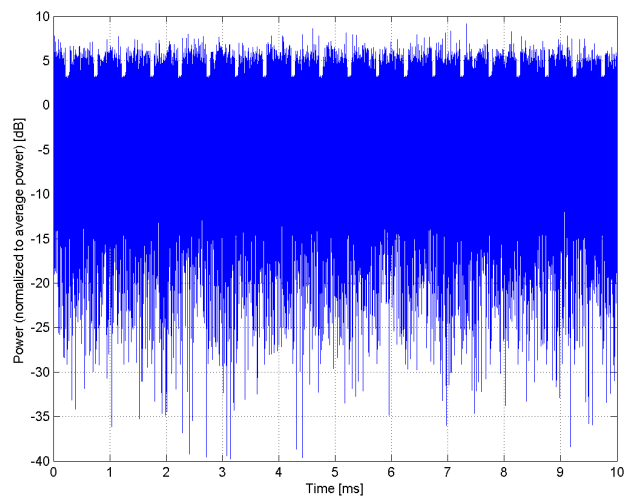
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)**

Group: WLAN
UID: 10114-CAE

PAR: ¹ **8.10 dB**
MIF: ² **-17.24 dB**

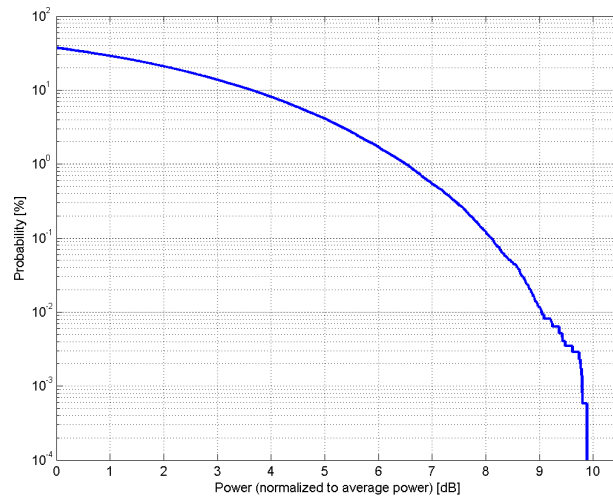
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 13.5 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 0
Guard Interval: Long
Payload Length: 3567

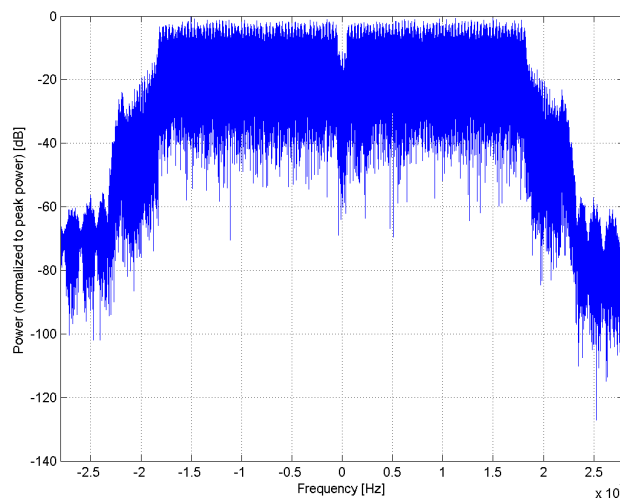
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

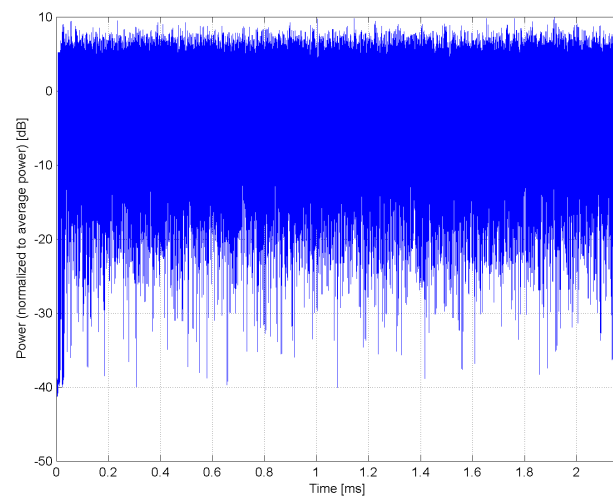
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)**

Group: WLAN
UID: 10115-CAE

PAR: ¹ **8.46 dB**
MIF: ² **-17.11 dB**

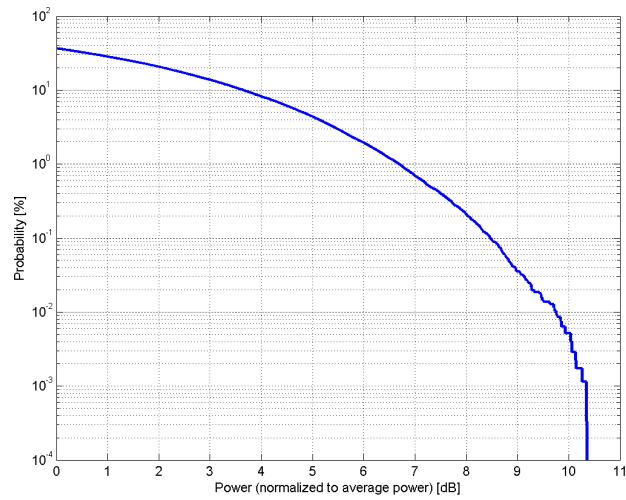
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 81 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 4
Guard Interval: Long
Payload Length: 21590

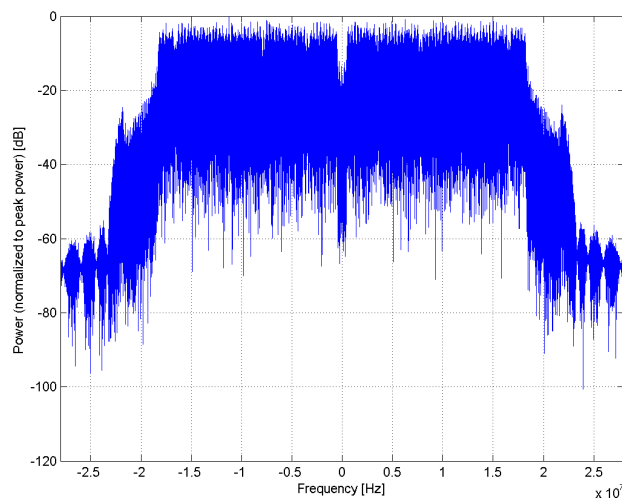
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

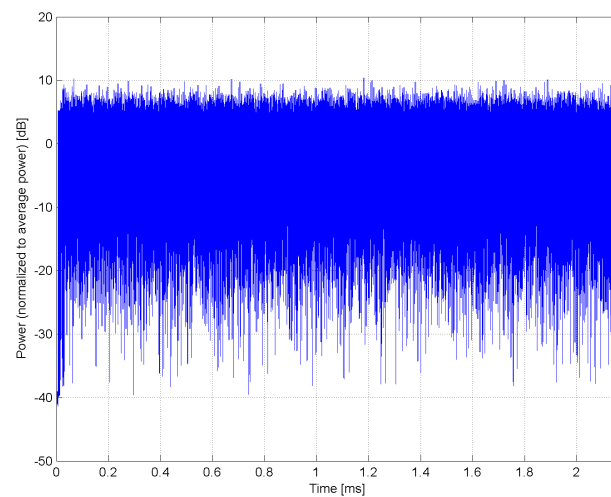
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)**

Group: WLAN
UID: 10116-CAE

PAR: ¹ **8.15 dB**
MIF: ² **-17.09 dB**

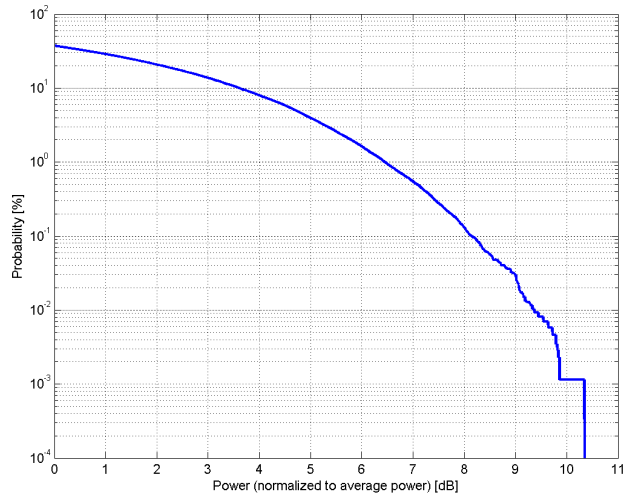
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 135 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 7
Guard Interval: Long
Payload Length: 36008

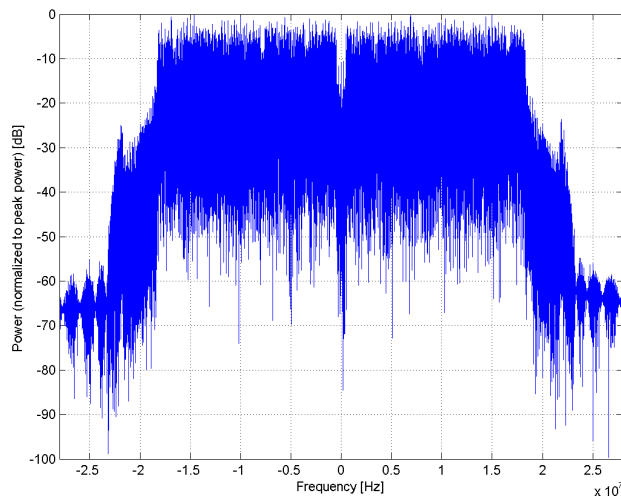
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

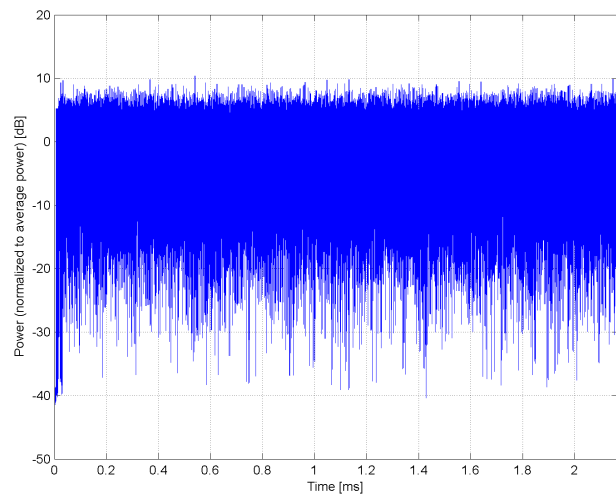
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)**

Group: WLAN
UID: 10117-CAE

PAR: ¹ **8.07 dB**
MIF: ² **-17.16 dB**

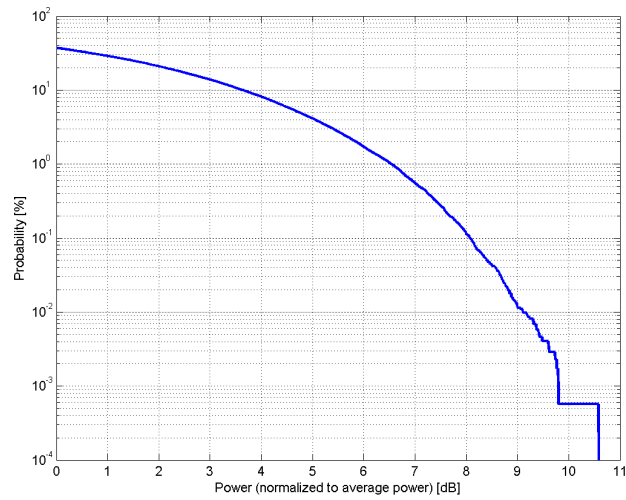
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 13.5 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 0
Guard Interval: Long
Payload Length: 3567

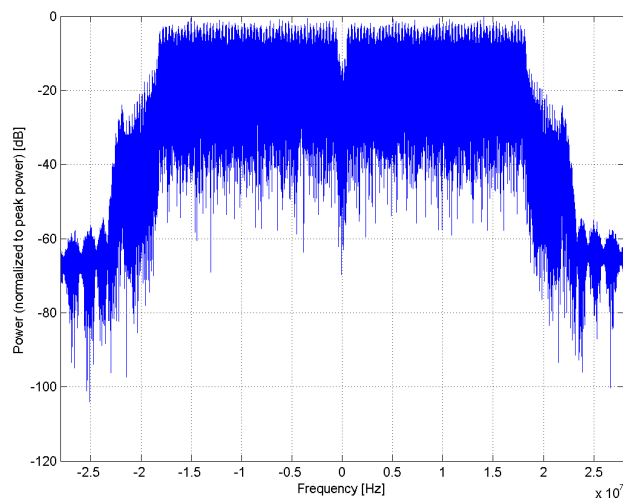
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

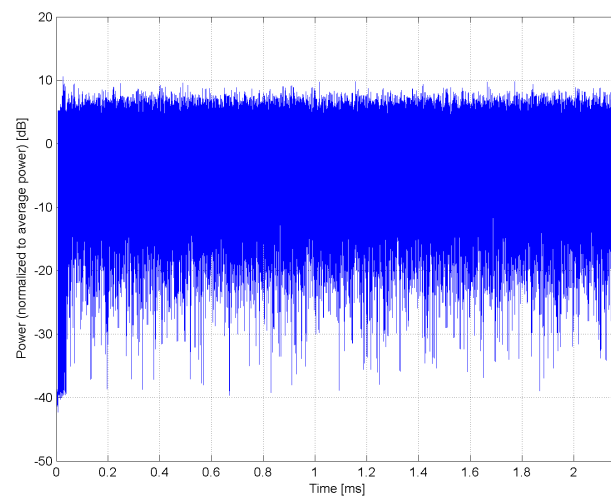
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)**

Group: WLAN
UID: 10118-CAE

PAR: ¹ **8.59 dB**
MIF: ² **-17.09 dB**

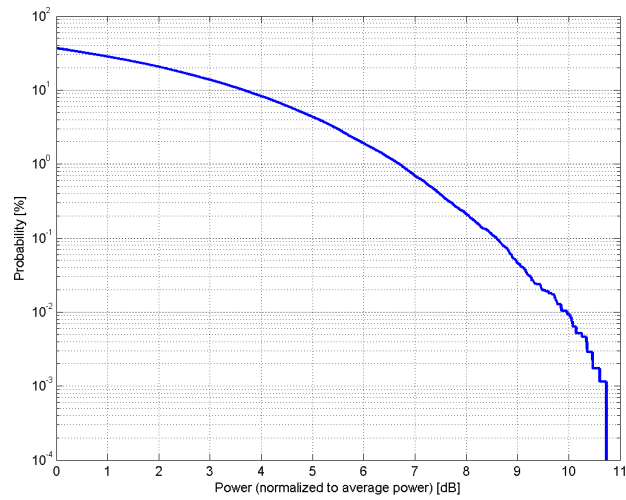
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 81 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 4
Guard Interval: Long
Payload Length: 21590

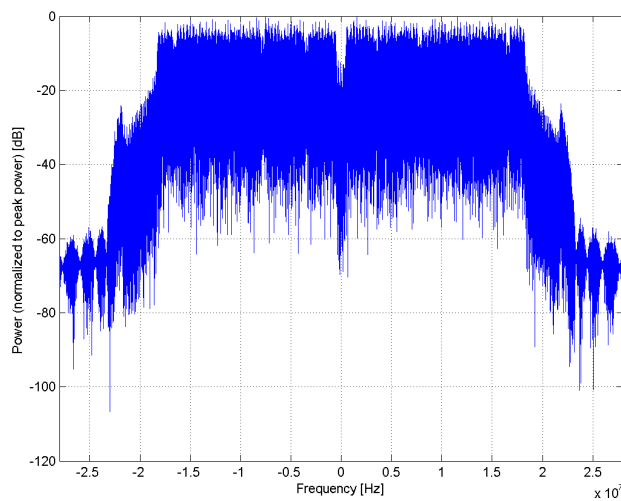
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

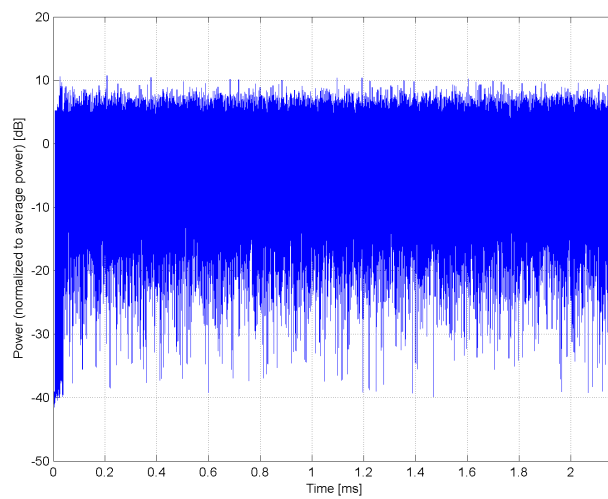
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)**

Group: WLAN
UID: 10119-CAE

PAR: ¹ **8.13 dB**
MIF: ² **-17.00 dB**

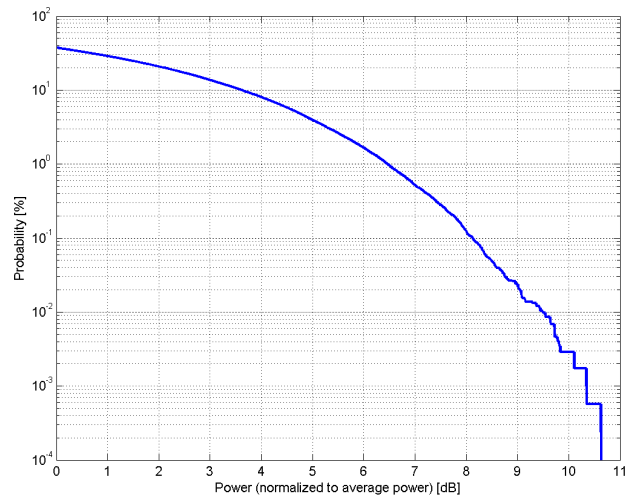
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 135 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 7
Guard Interval: Long
Payload Length: 36008

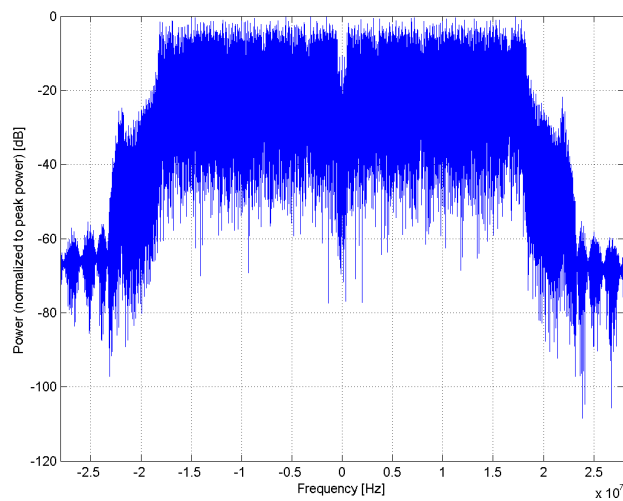
Bandwidth: 40.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

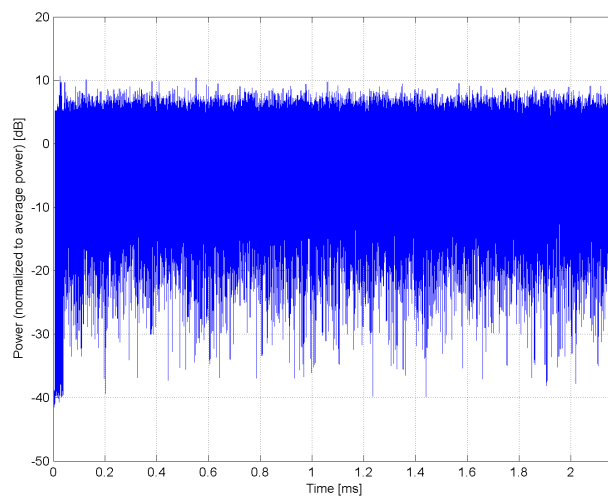
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10140-CAF

PAR: ¹ **6.49 dB**
MIF: ² **-19.37 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

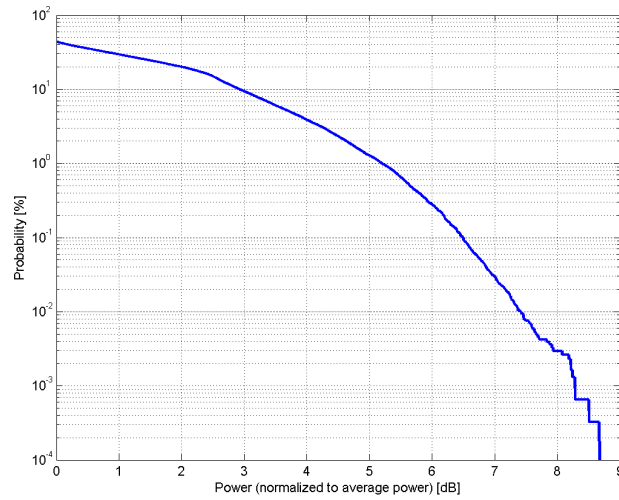
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 75
Transport Block Size: 21384
TBS Index: 14
MCS Index: 15
Data Type: PN9

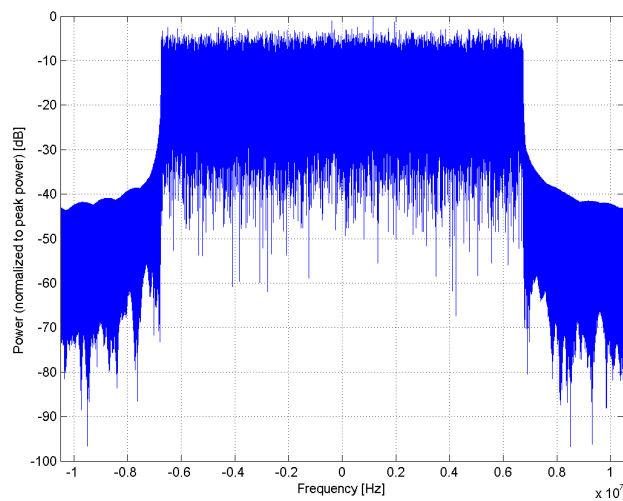
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

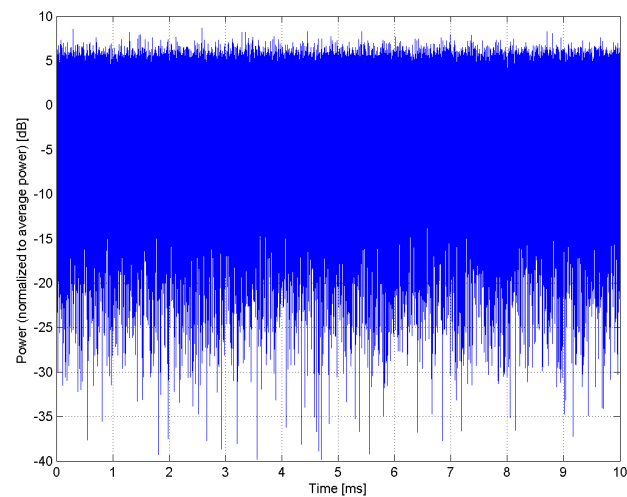
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10141-CAF

PAR: ¹ **6.53 dB**
MIF: ² **-19.44 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

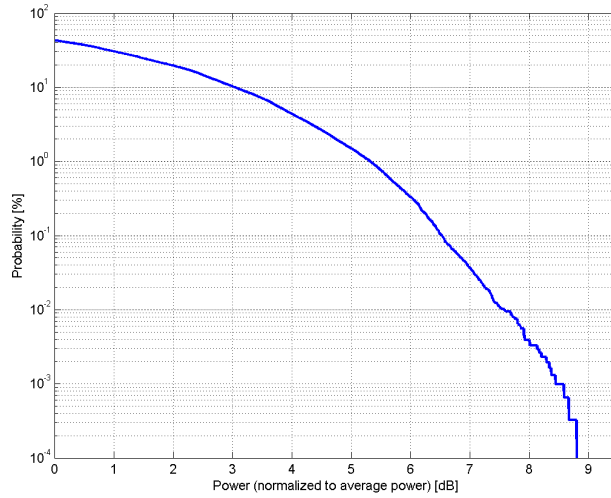
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 75
Transport Block Size: 43816
TBS Index: 23
MCS Index: 25
Data Type: PN9

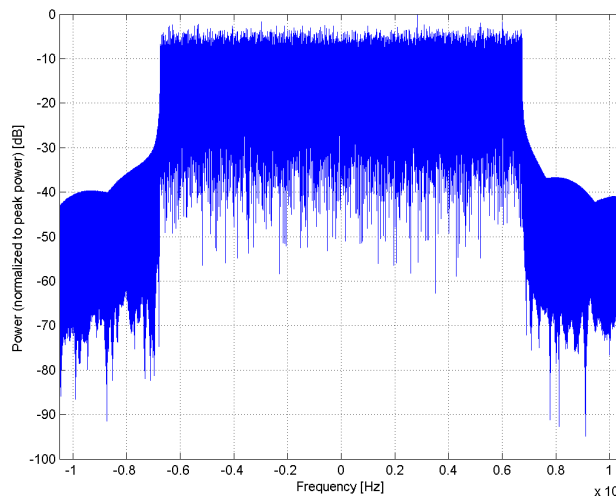
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

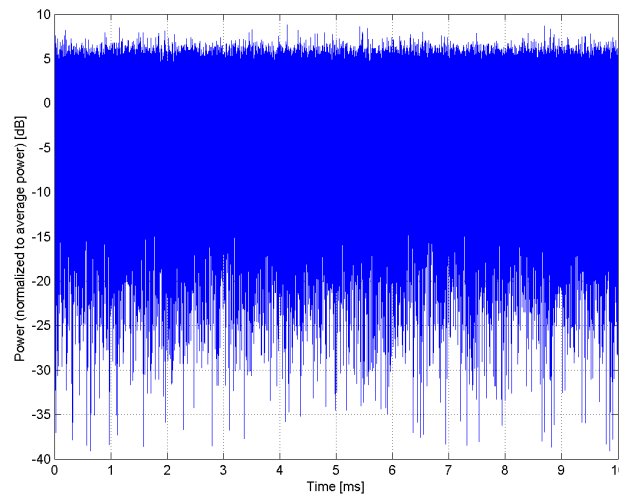
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



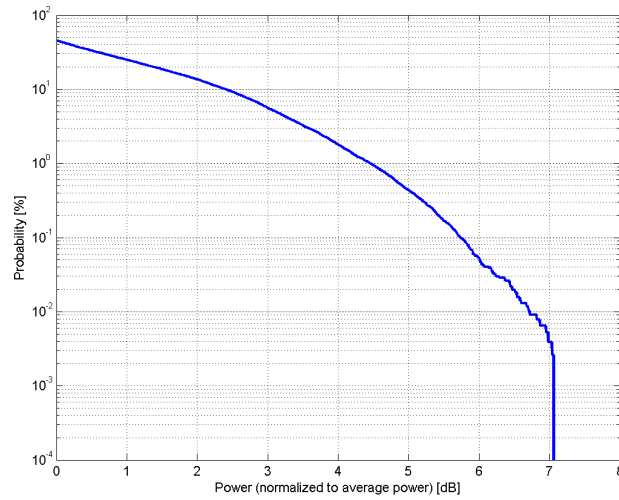
Time Domain

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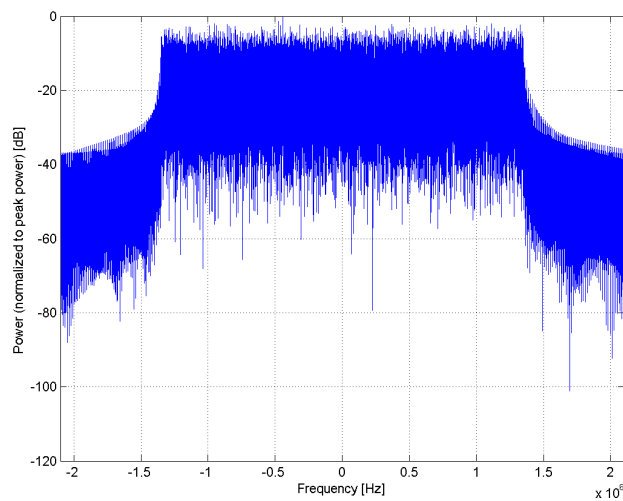
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10142-CAF |
| PAR: ¹ | 5.73 dB |
| MIF: ² | -22.36 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 15 Transport Block Size: 1320 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

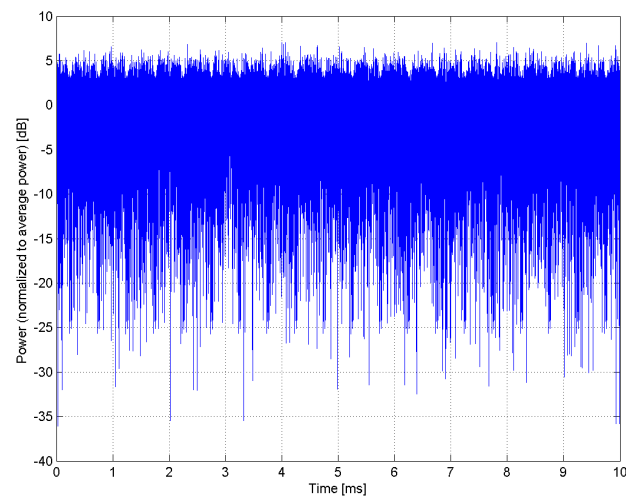
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10143-CAF

PAR: ¹ **6.35 dB**
MIF: ² **-14.75 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

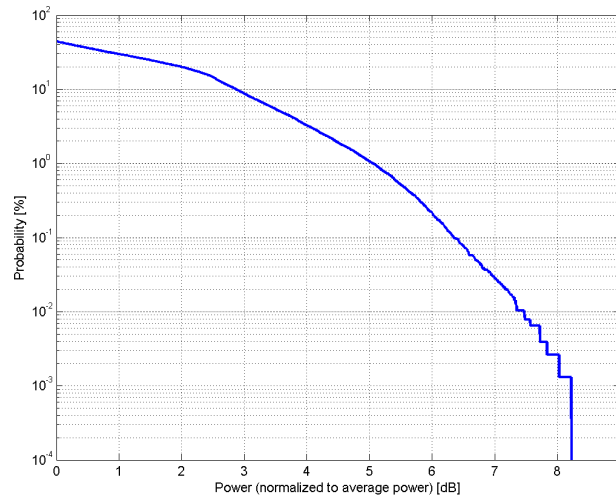
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 15
Transport Block Size: 4264
TBS Index: 14
MCS Index: 15
Data Type: PN9

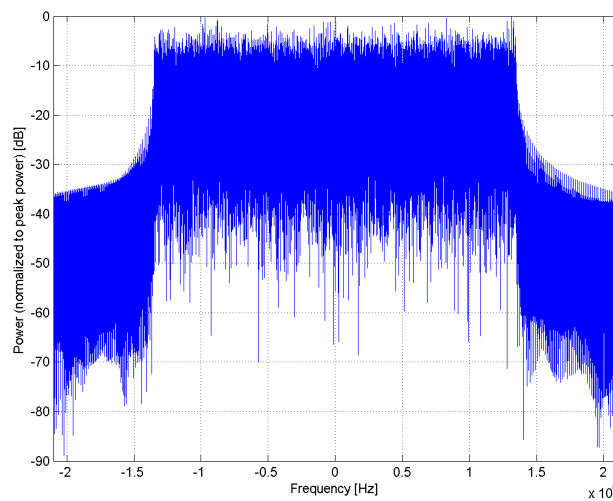
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

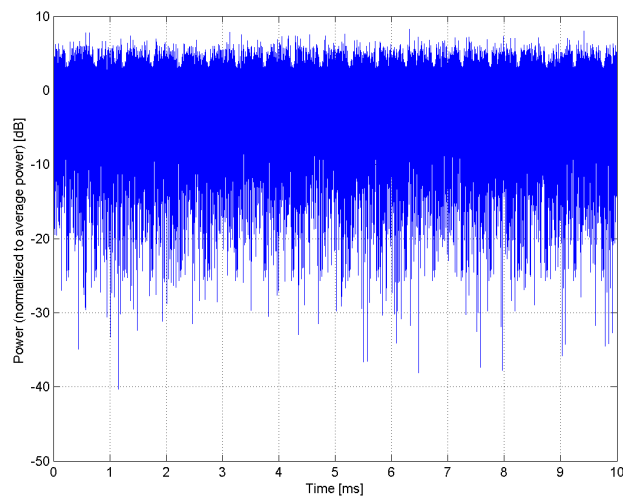
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



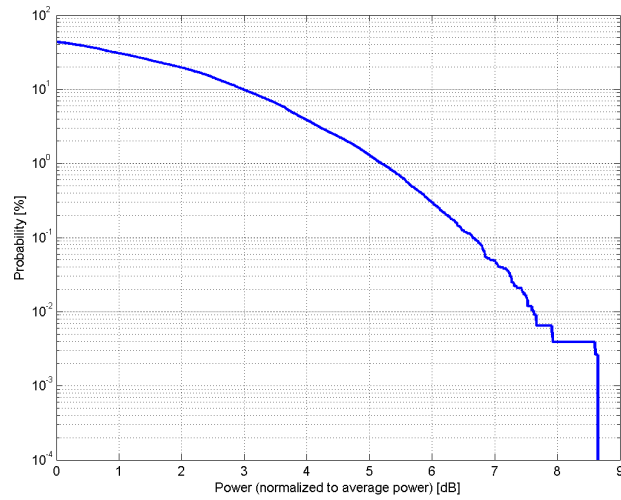
Time Domain

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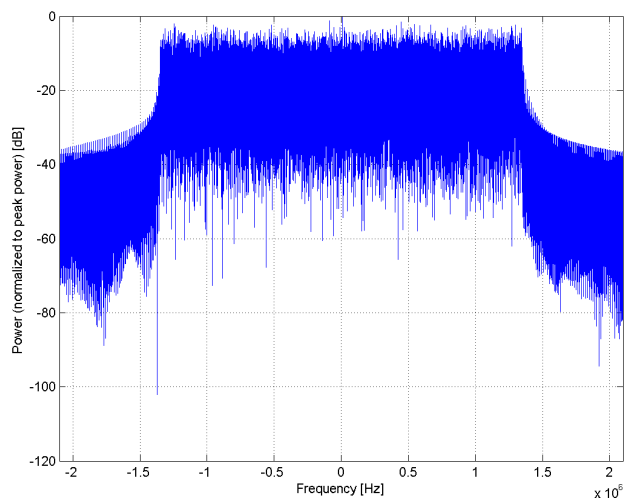
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10144-CAF |
| PAR: ¹ | 6.65 dB |
| MIF: ² | -15.02 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 15 Transport Block Size: 8504 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

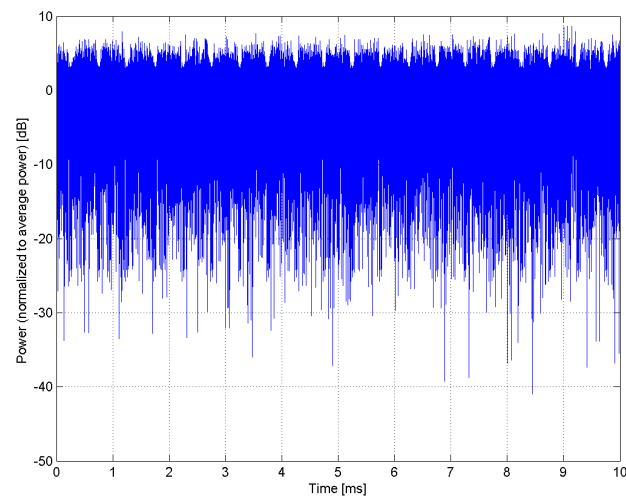
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



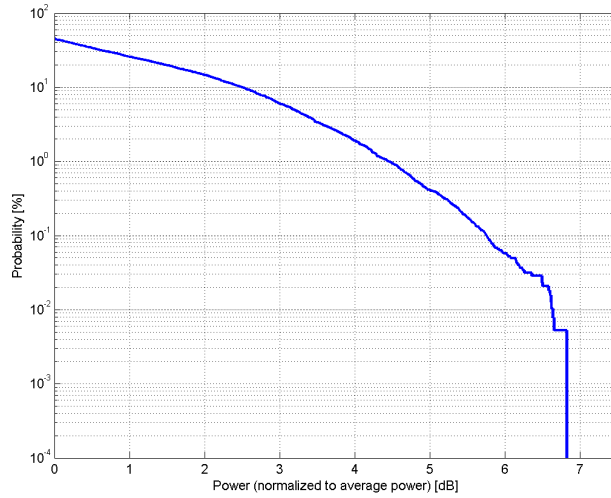
Time Domain

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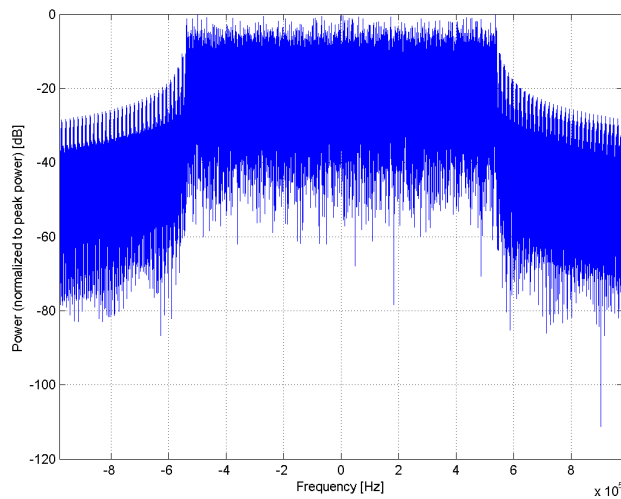
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10145-CAG |
| PAR: ¹ | 5.76 dB |
| MIF: ² | -17.39 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 6 Transport Block Size: 504 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

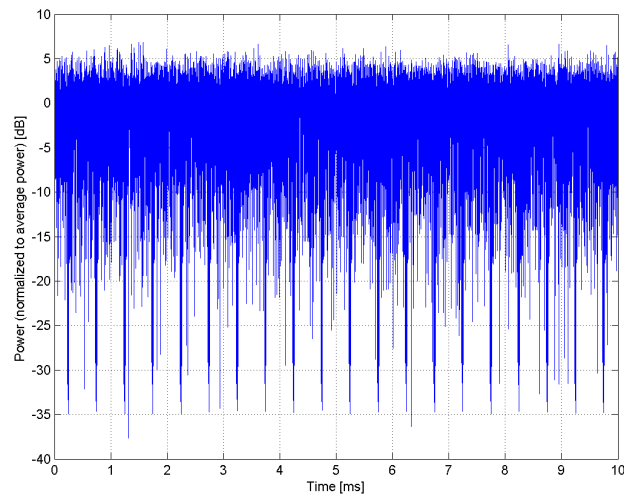
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10146-CAG

PAR: ¹ **6.41 dB**
MIF: ² **-13.60 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

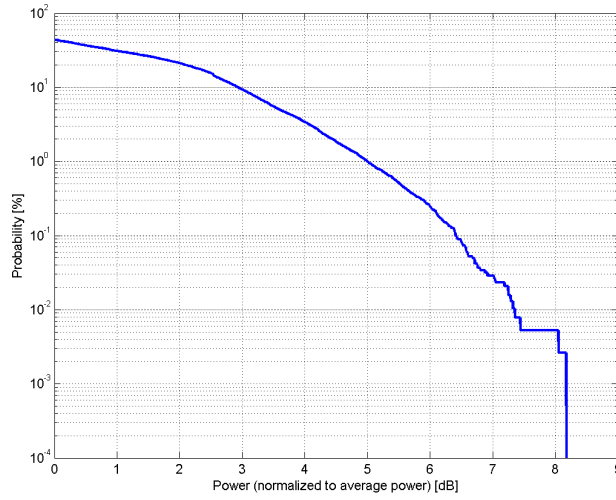
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 15
Transport Block Size: 1736
TBS Index: 14
MCS Index: 15
Data Type: PN9

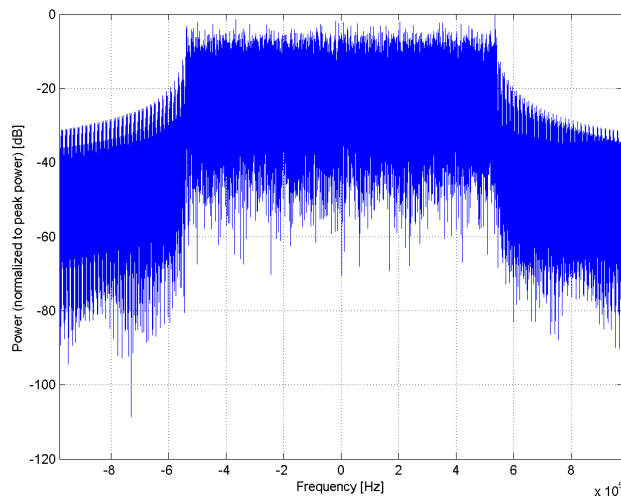
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

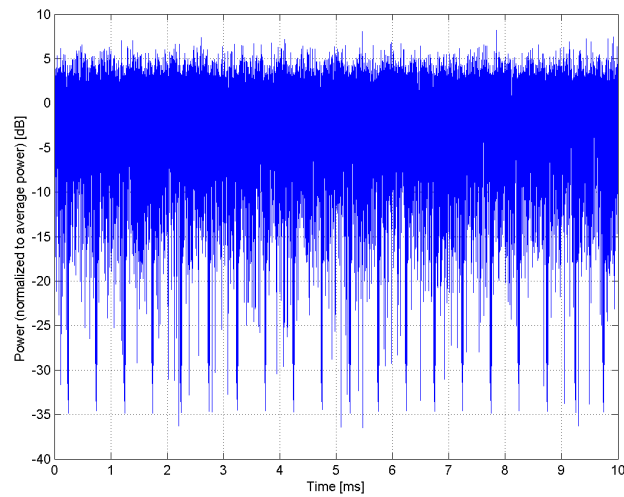
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10147-CAG

PAR: ¹ **6.72 dB**
MIF: ² **-13.90 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

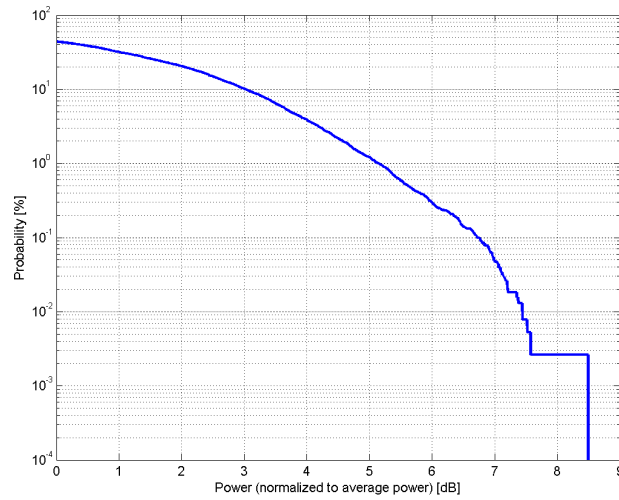
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 6
Transport Block Size: 3496
TBS Index: 23
MCS Index: 25
Data Type: PN9

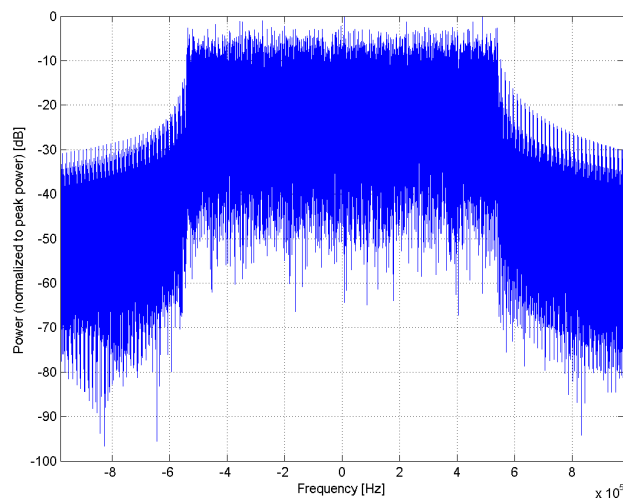
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

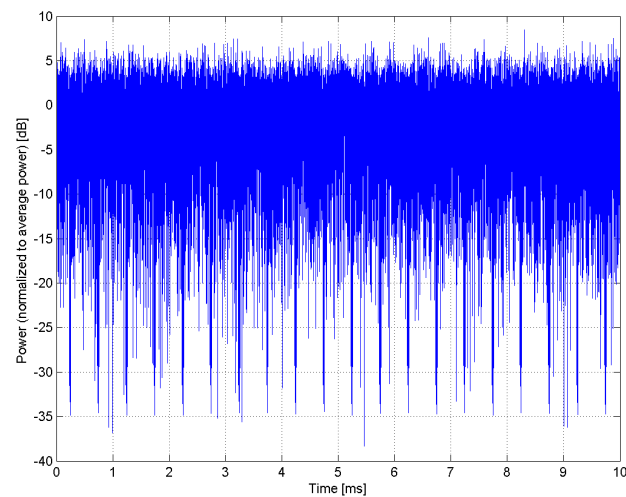
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10149-CAF

PAR: ¹ **6.42 dB**
MIF: ² **-16.87 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

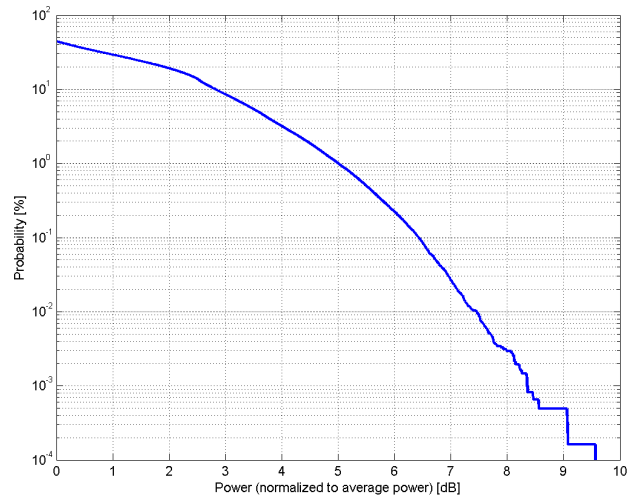
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 50
Transport Block Size: 14112
TBS Index: 14
MCS Index: 15
Data Type: PN9

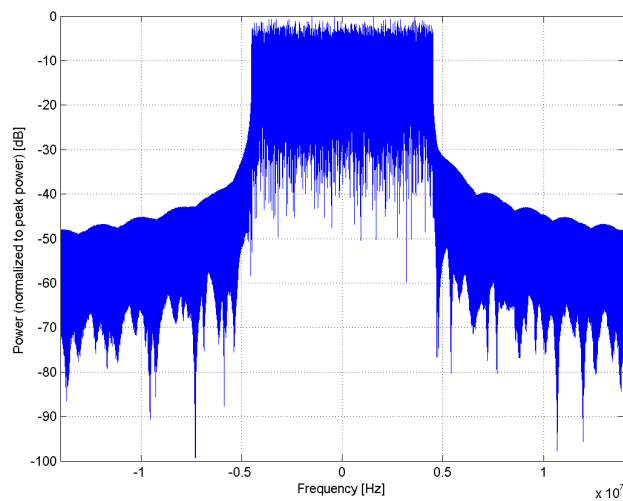
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

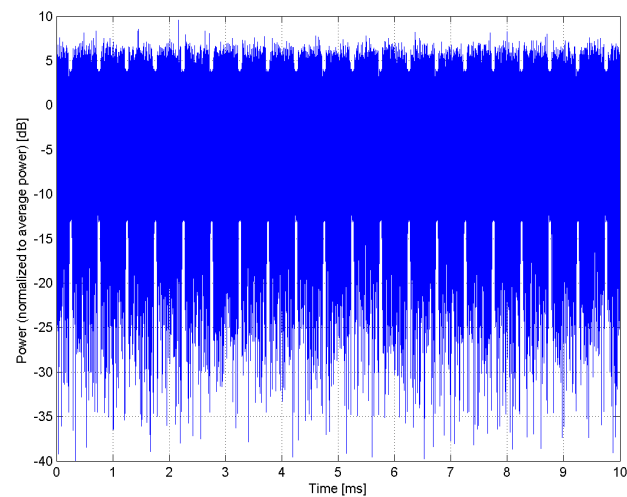
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10150-CAF

PAR: ¹ **6.60 dB**
MIF: ² **-16.33 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

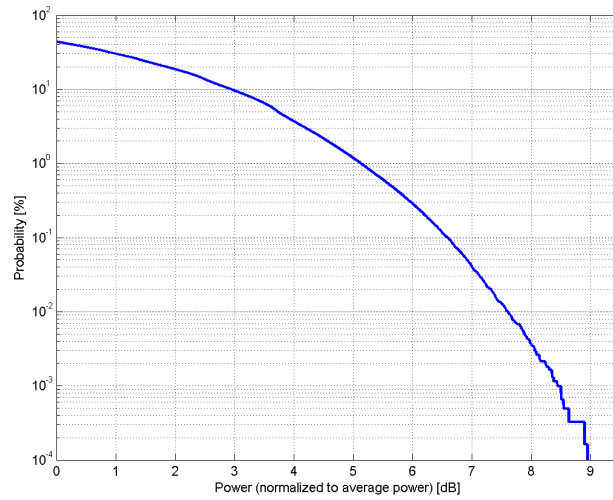
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 50
Transport Block Size: 28336
TBS Index: 23
MCS Index: 25
Data Type: PN9

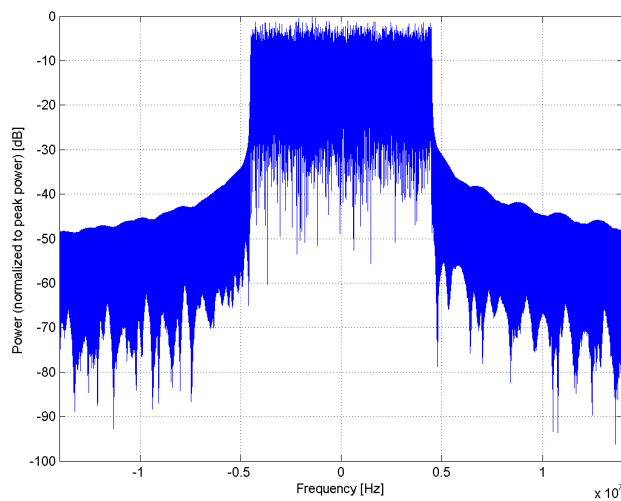
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

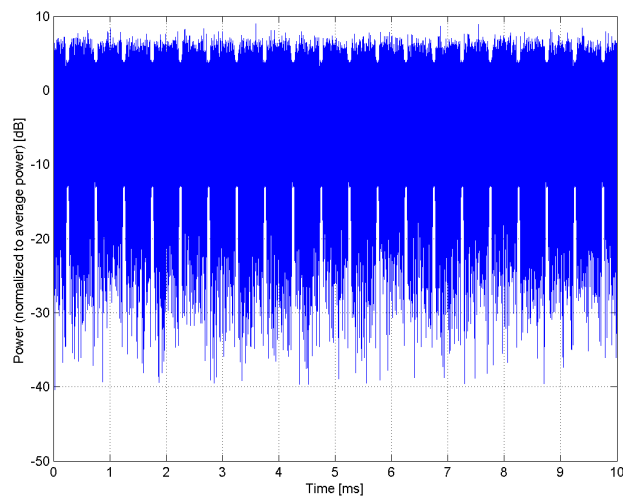
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)**

Group: LTE-TDD
UID: 10151-CAH

PAR: ¹ **9.28 dB**
MIF: ² **-1.64 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

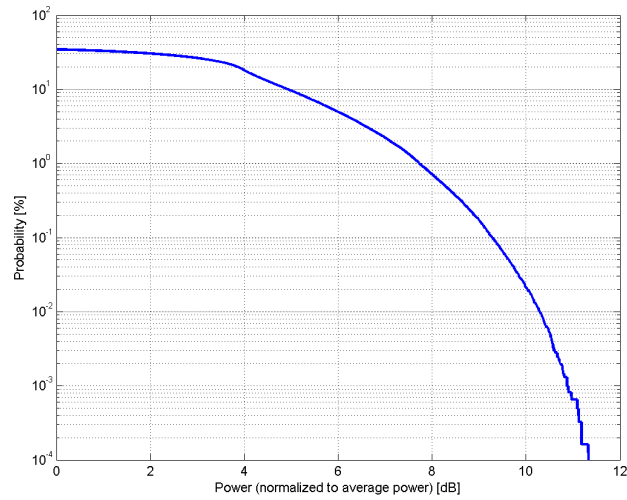
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

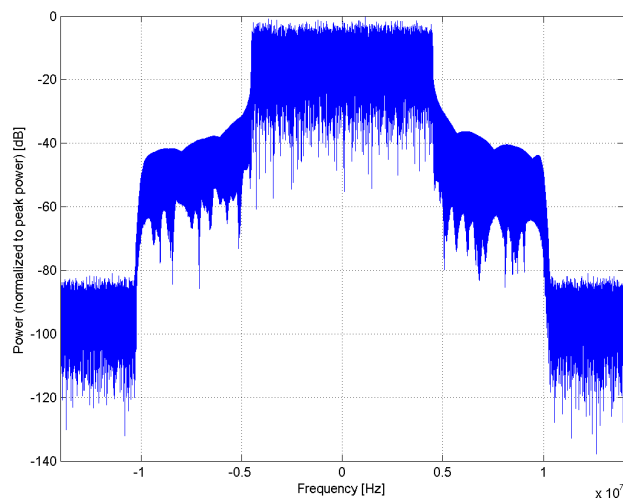
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

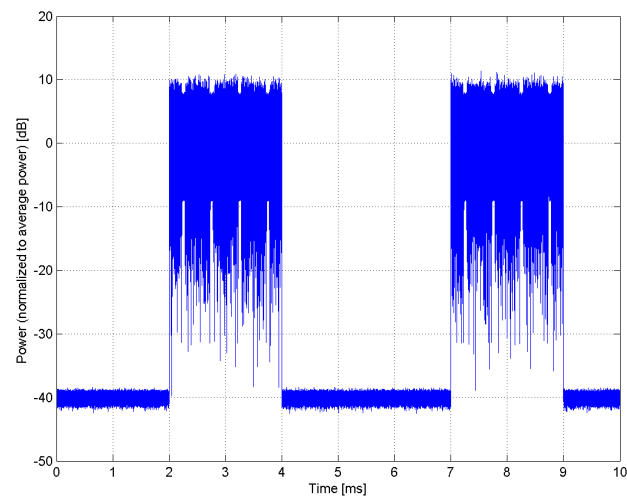
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10152-CAH

PAR: ¹ **9.92 dB**
MIF: ² **-1.66 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

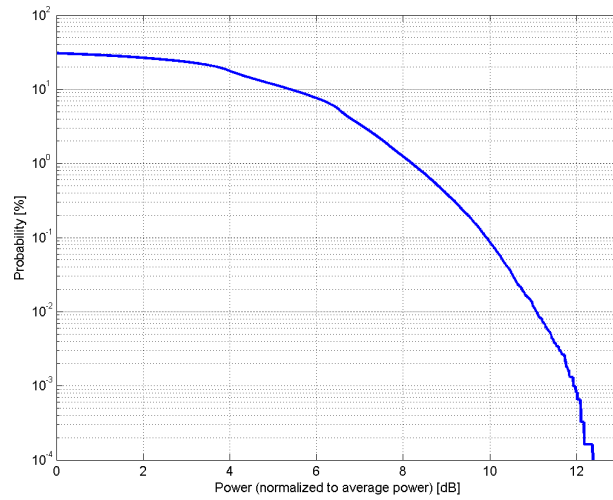
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

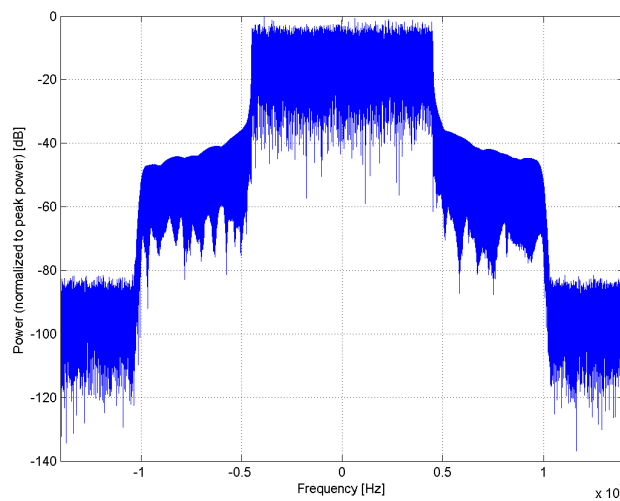
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

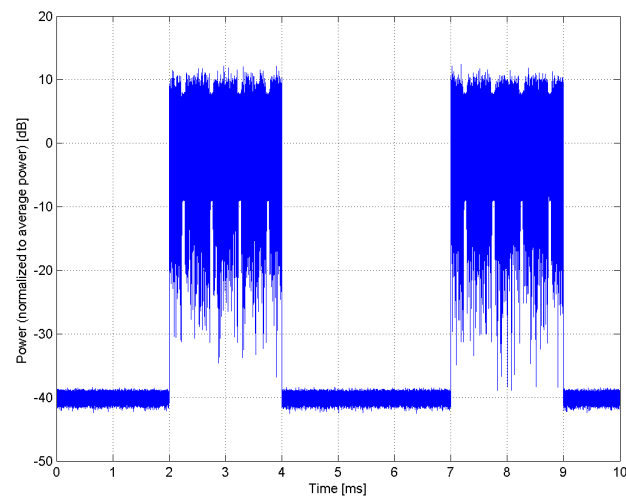
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10153-CAH

PAR: ¹ **10.05 dB**
MIF: ² **-1.66 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

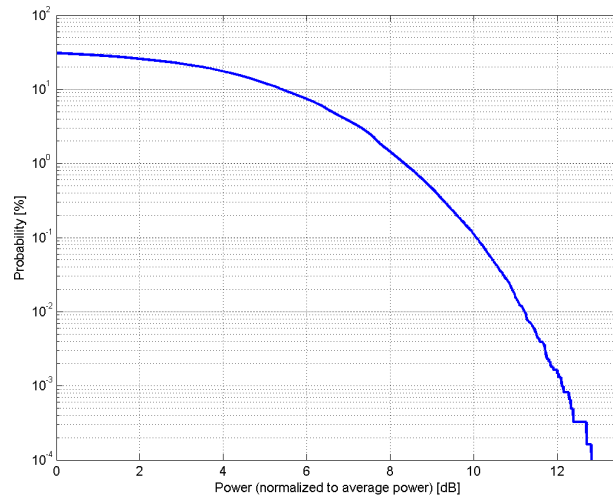
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

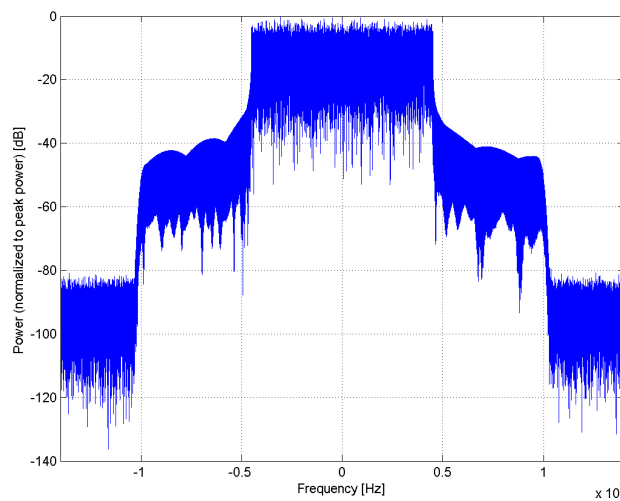
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

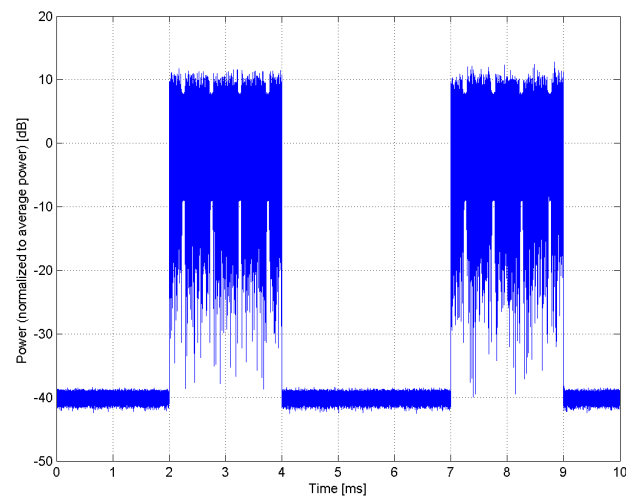
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



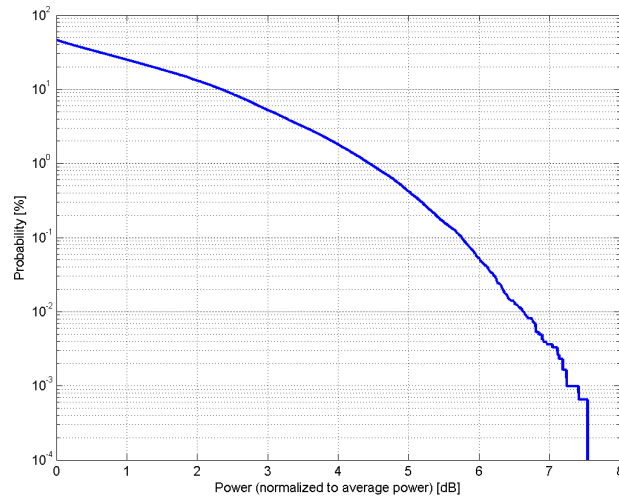
Time Domain

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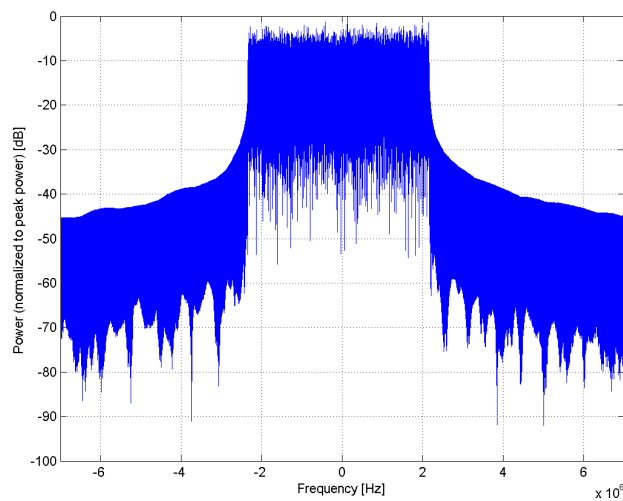
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10154-CAH |
| PAR: ¹ | 5.75 dB |
| MIF: ² | -23.42 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 25 Transport Block Size: 2216 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

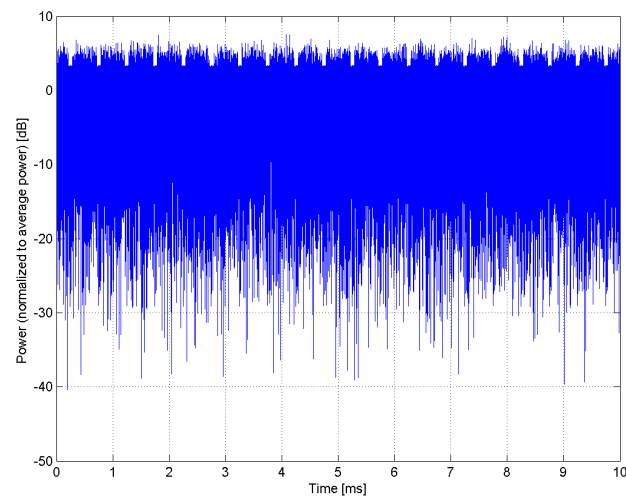
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10155-CAH

PAR: ¹ **6.43 dB**
MIF: ² **-16.36 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

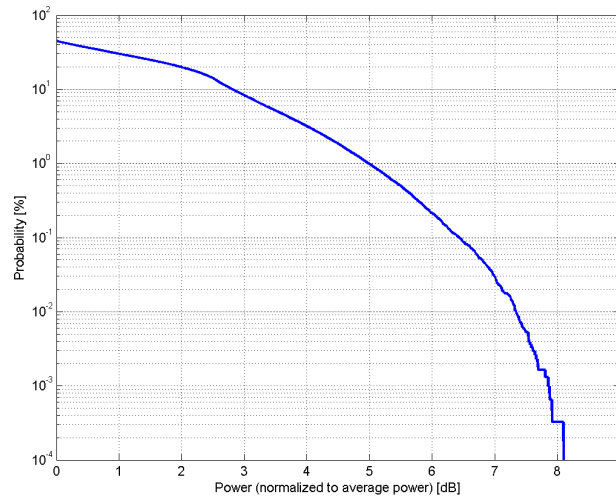
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 25
Transport Block Size: 7224
TBS Index: 14
MCS Index: 15
Data Type: PN9

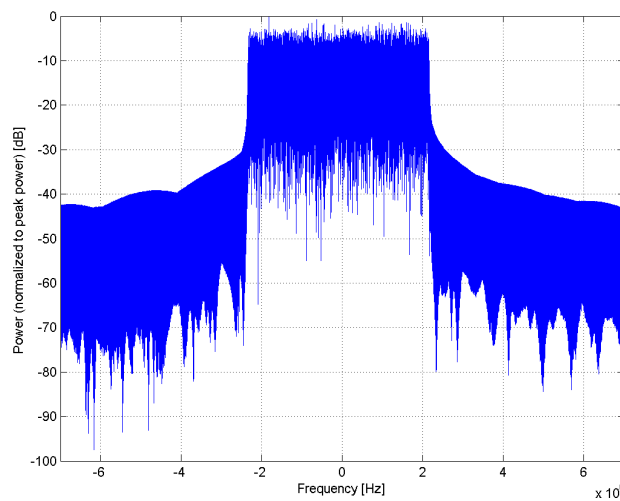
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

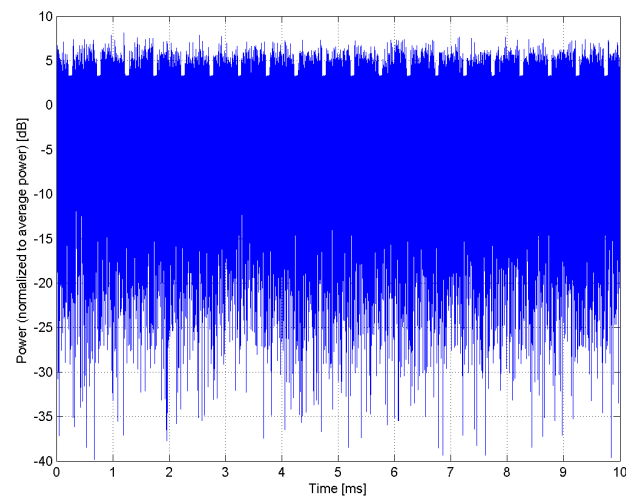
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



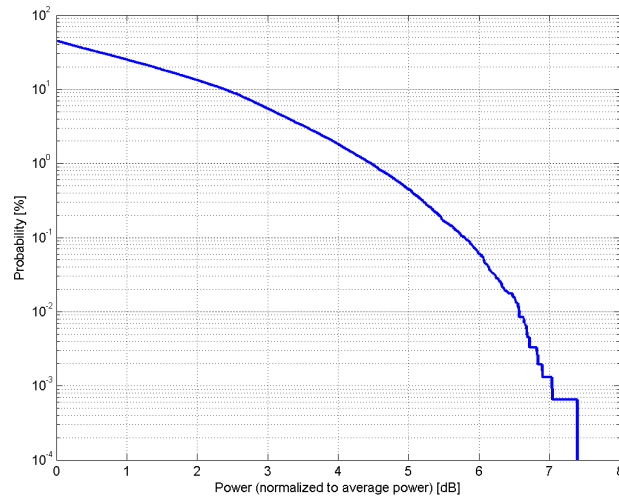
Time Domain

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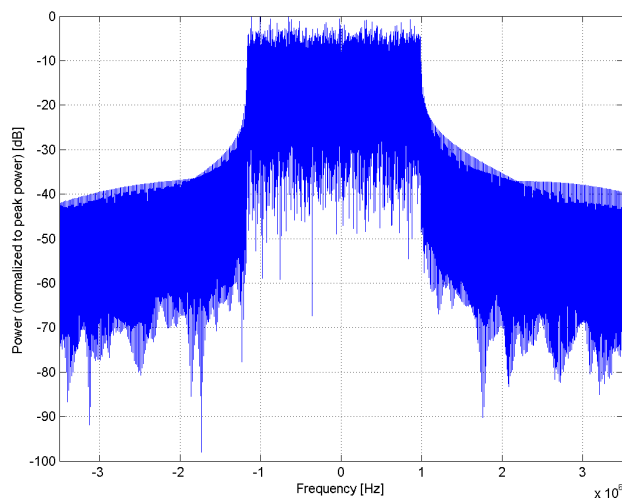
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10156-CAH |
| PAR: ¹ | 5.79 dB |
| MIF: ² | -21.71 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 12 Transport Block Size: 1032 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

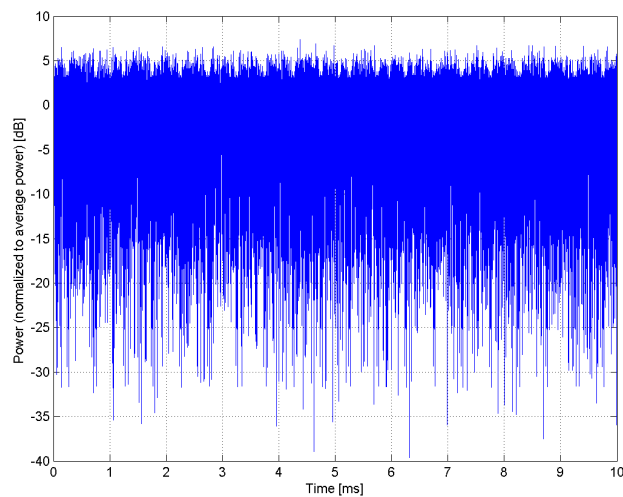
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



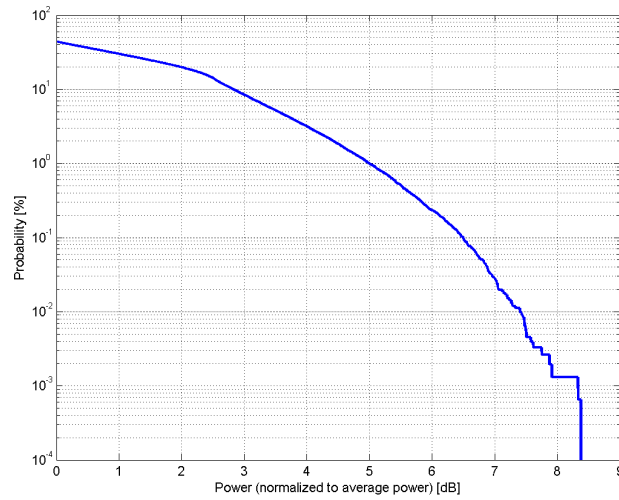
Time Domain

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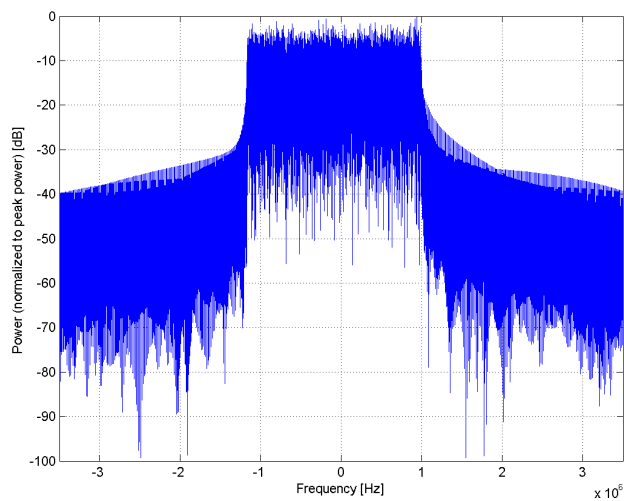
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10157-CAH |
| PAR: ¹ | 6.49 dB |
| MIF: ² | -15.78 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 12 Transport Block Size: 3496 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

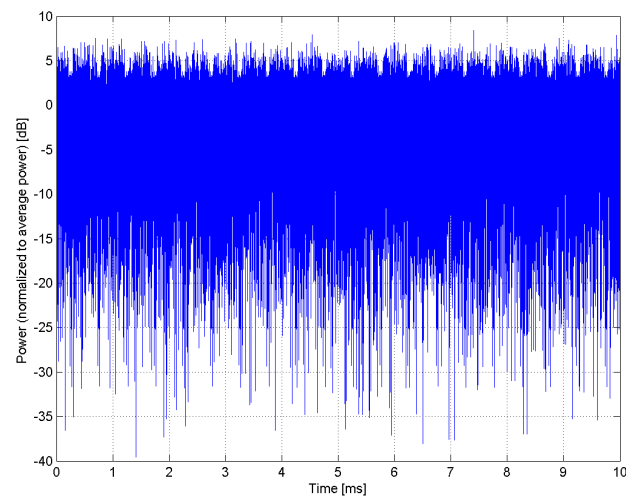
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10158-CAH

PAR: ¹ **6.62 dB**
MIF: ² **-15.99 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

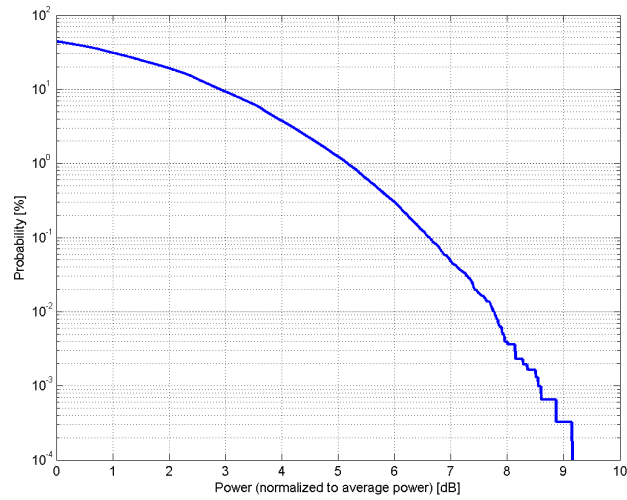
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 25
Transport Block Size: 14112
TBS Index: 23
MCS Index: 25
Data Type: PN9

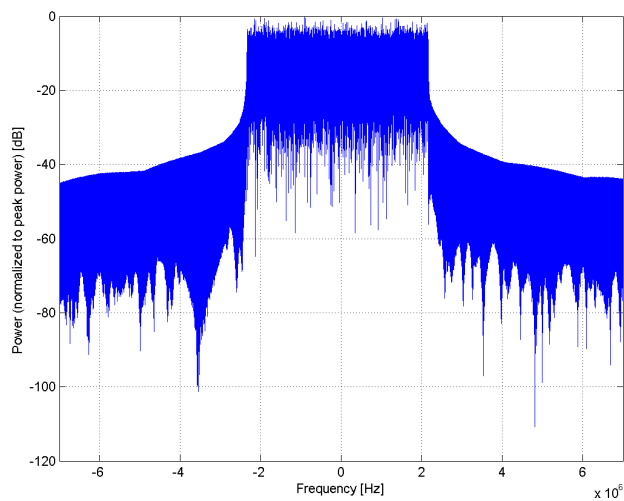
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

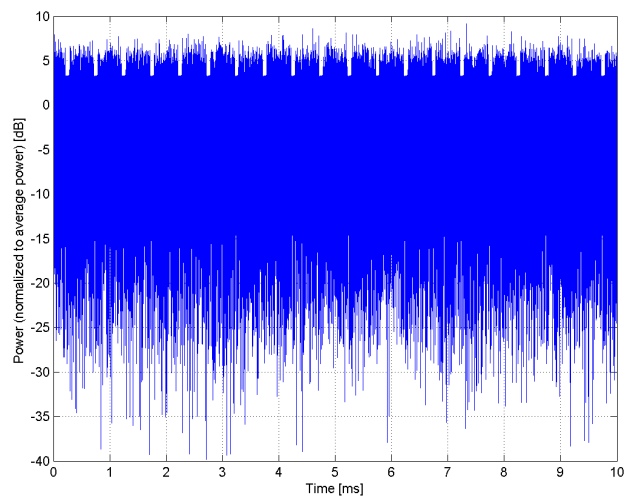
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



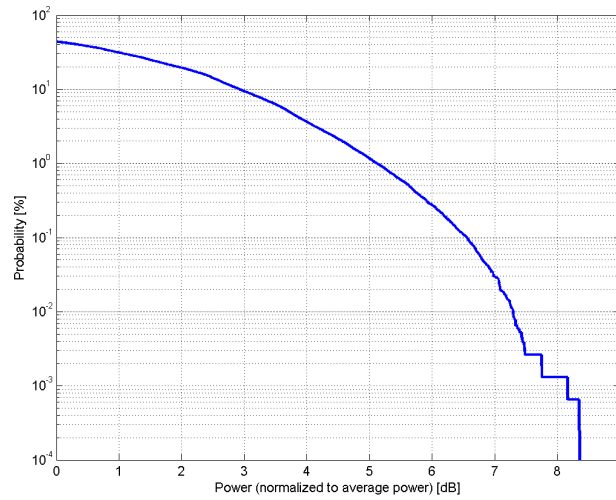
Time Domain

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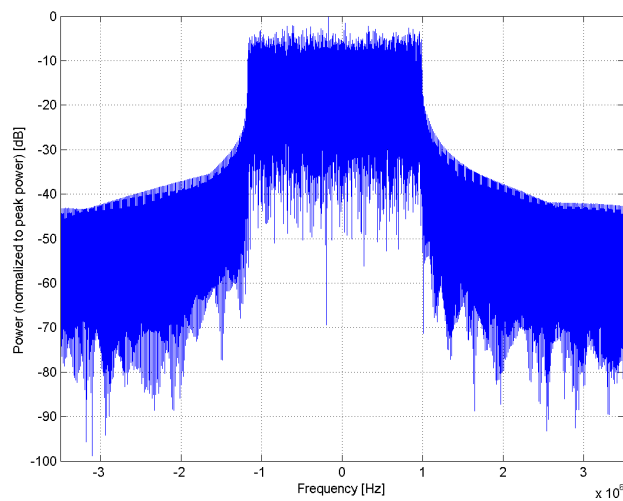
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10159-CAH |
| PAR: ¹ | 6.56 dB |
| MIF: ² | -14.49 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 12 Transport Block Size: 6968 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

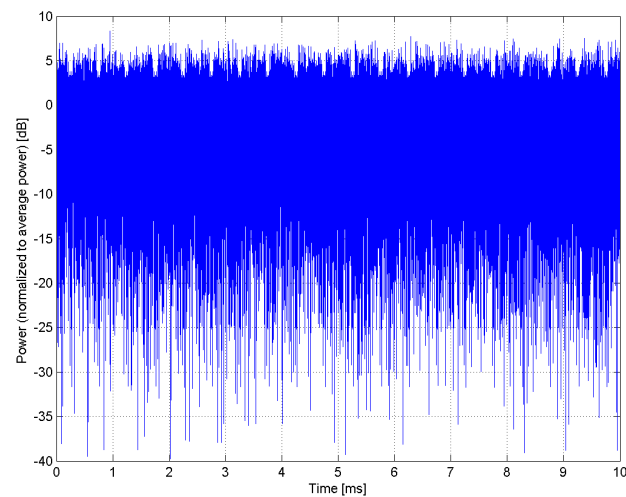
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)**

Group: LTE-FDD
UID: 10160-CAF

PAR: ¹ **5.82 dB**
MIF: ² **-17.95 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

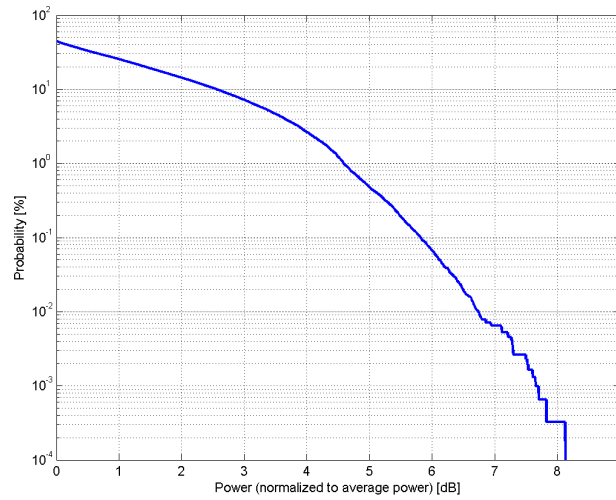
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 36
Transport Block Size: 3112
TBS Index: 5
MCS Index: 5
Data Type: PN9

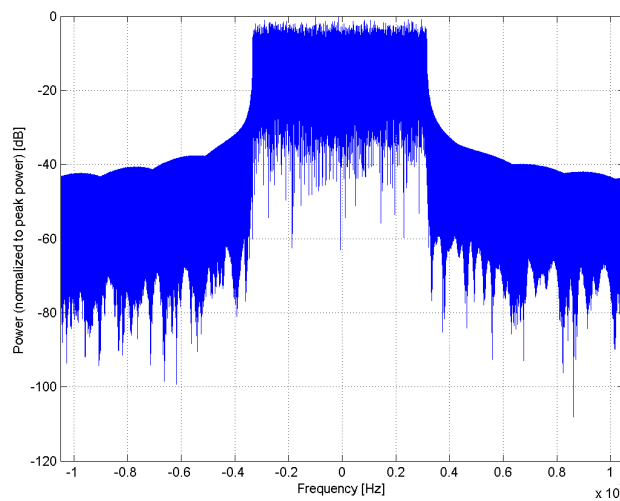
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

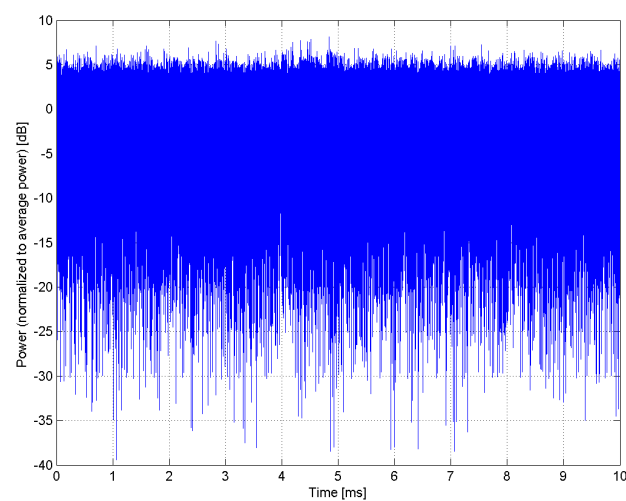
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



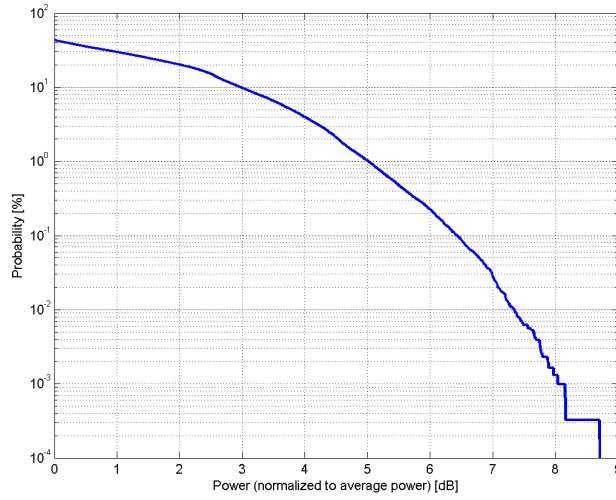
Time Domain

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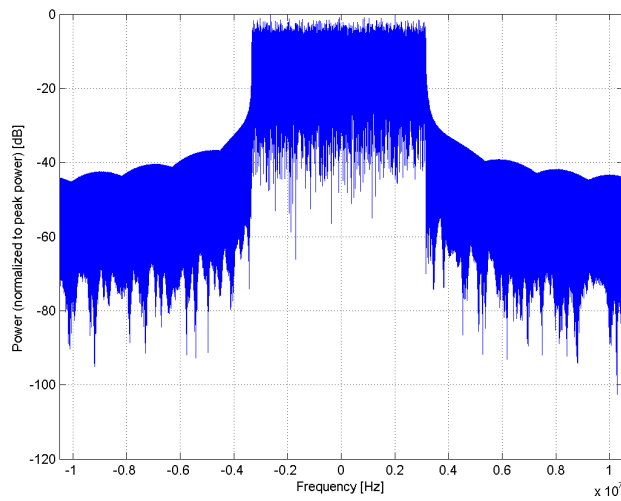
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10161-CAF |
| PAR: ¹ | 6.43 dB |
| MIF: ² | -17.54 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 36 Transport Block Size: 10296 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

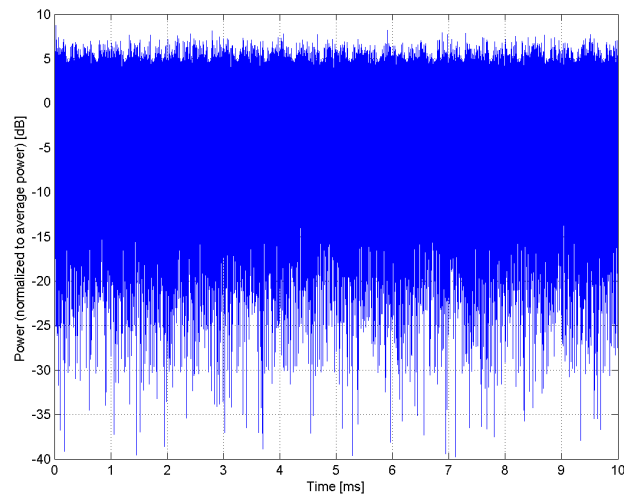
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10162-CAF

PAR: ¹ **6.58 dB**
MIF: ² **-17.63 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

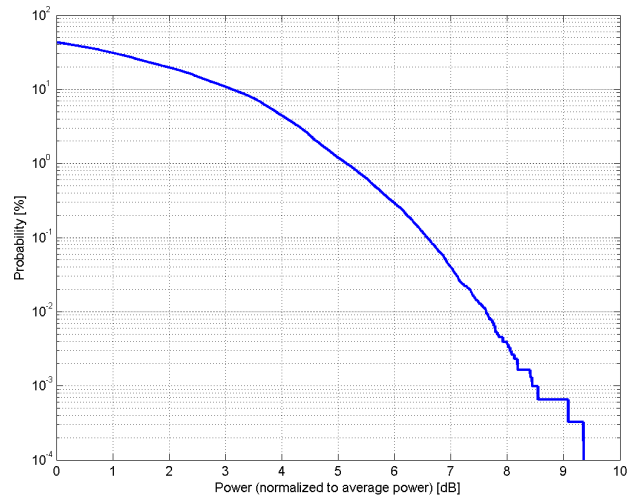
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 36
Transport Block Size: 20616
TBS Index: 23
MCS Index: 25
Data Type: PN9

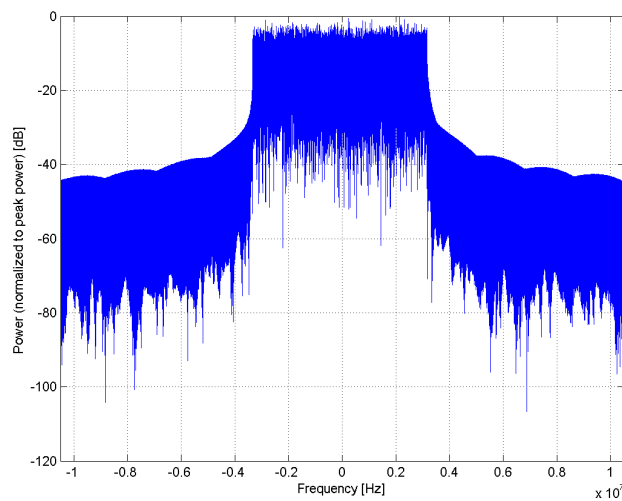
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

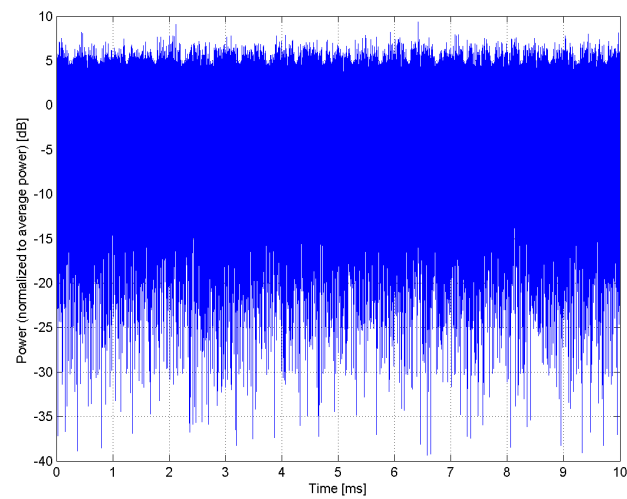
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)**

Group: LTE-FDD
UID: 10166-CAG

PAR: ¹ **5.46 dB**
MIF: ² **-18.10 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

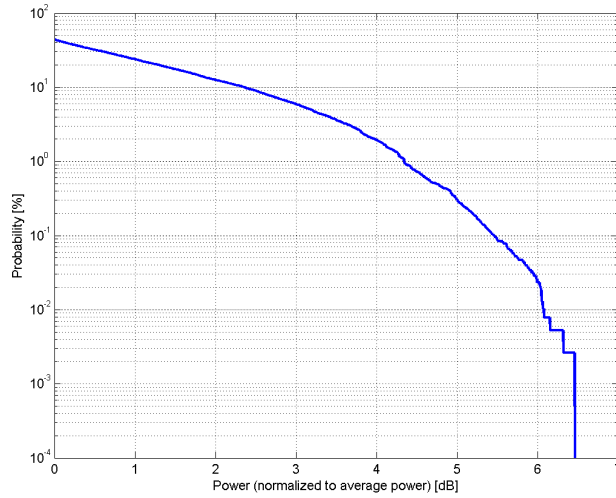
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 3
Transport Block Size: 224
TBS Index: 5
MCS Index: 5
Data Type: PN9

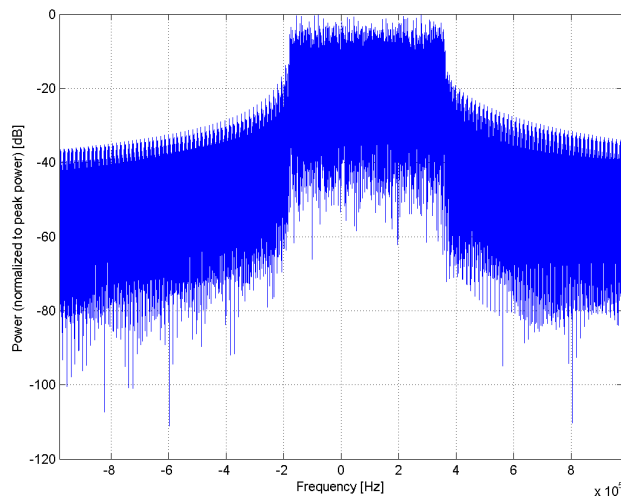
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

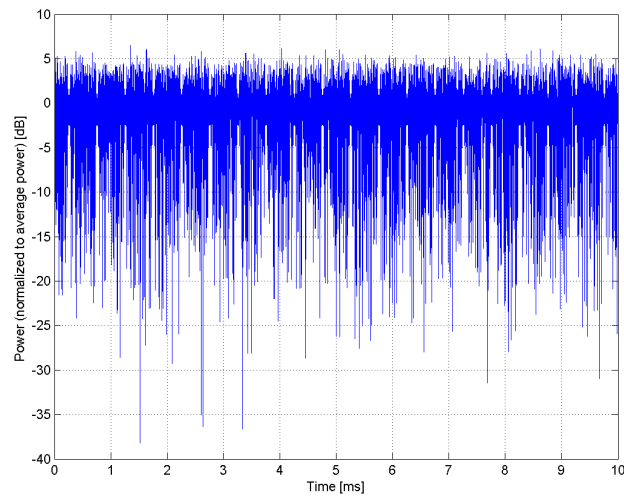
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



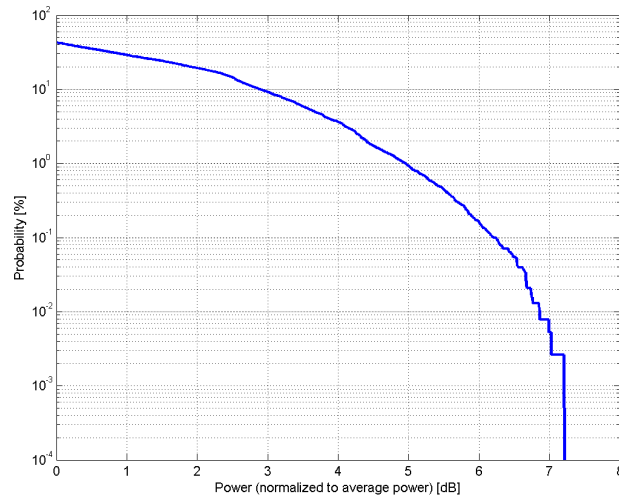
Time Domain

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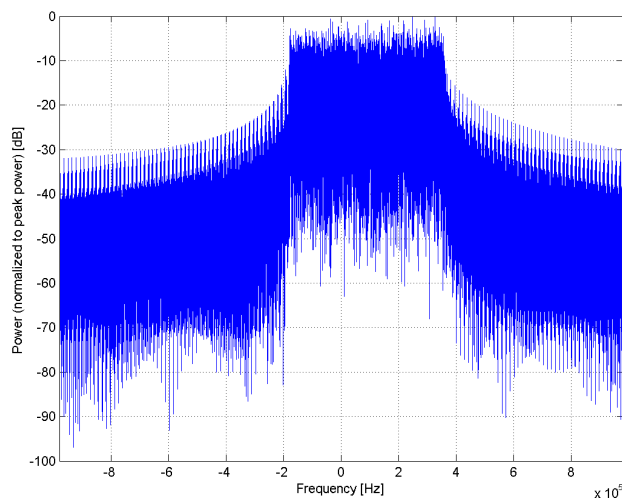
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10167-CAG |
| PAR: ¹ | 6.21 dB |
| MIF: ² | -12.15 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 3 Transport Block Size: 840 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

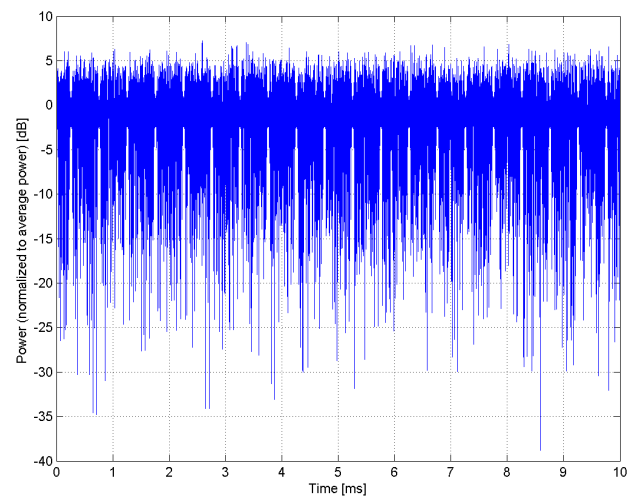
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10168-CAG

PAR: ¹ **6.79 dB**
MIF: ² **-12.10 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

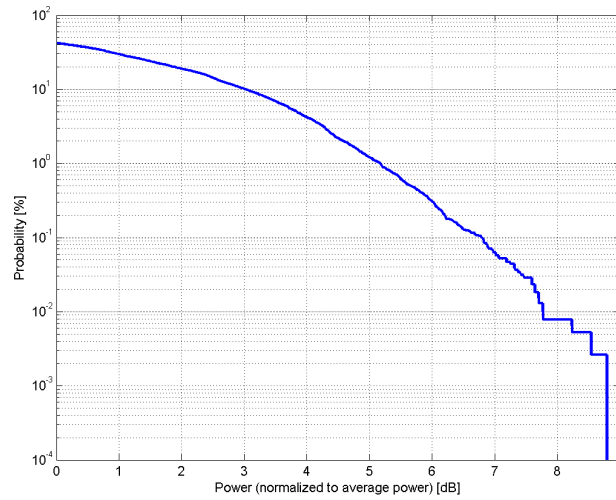
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 3
Transport Block Size: 1736
TBS Index: 23
MCS Index: 25
Data Type: PN9

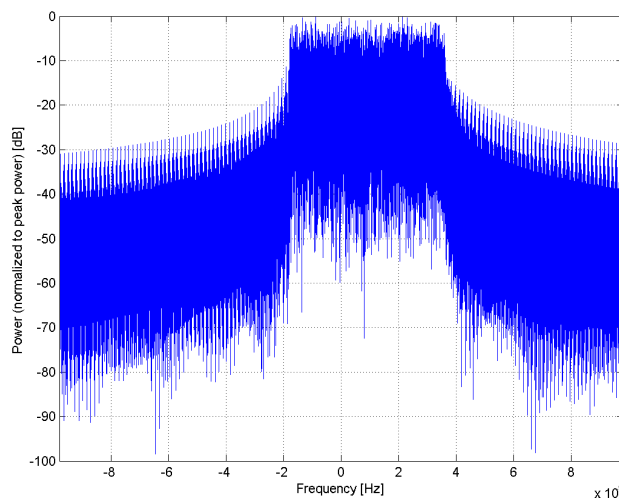
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

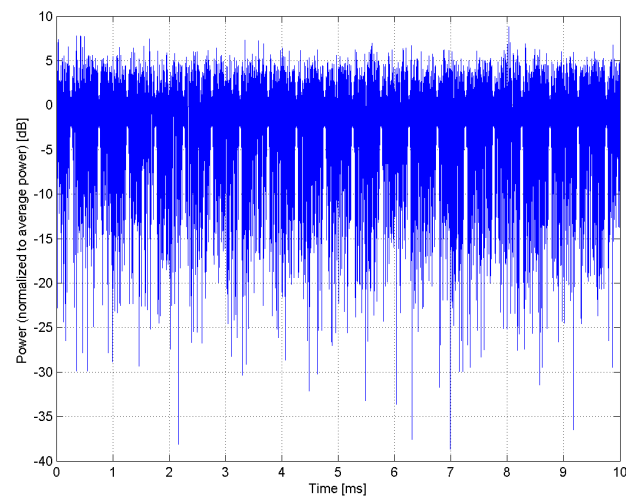
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



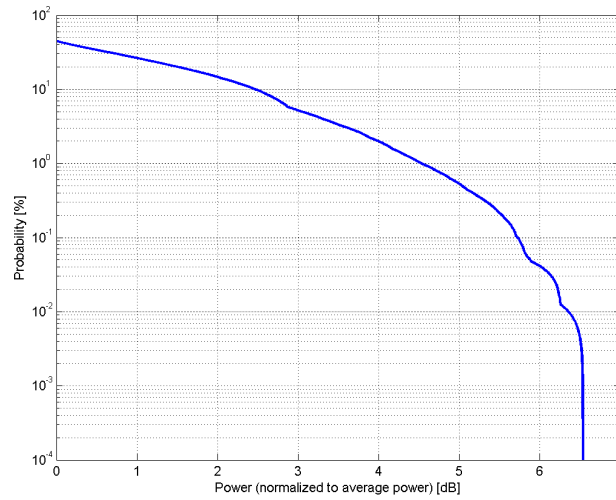
Time Domain

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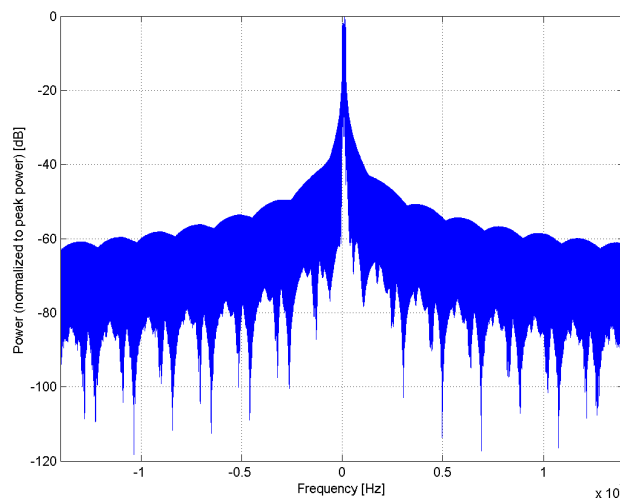
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10169-CAF |
| PAR: ¹ | 5.73 dB |
| MIF: ² | -15.63 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 1 Transport Block Size: 72 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

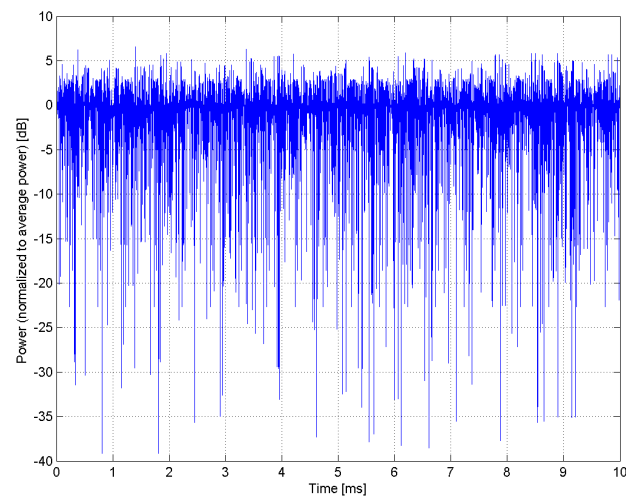
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10170-CAF

PAR: ¹ **6.52 dB**
MIF: ² **-9.76 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

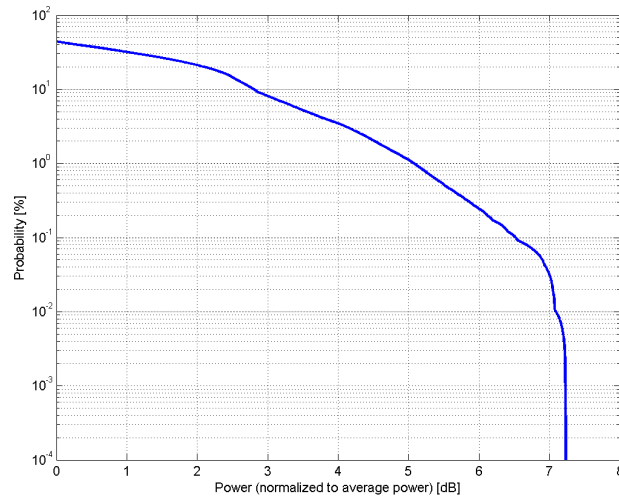
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 256
TBS Index: 14
MCS Index: 15
Data Type: PN9

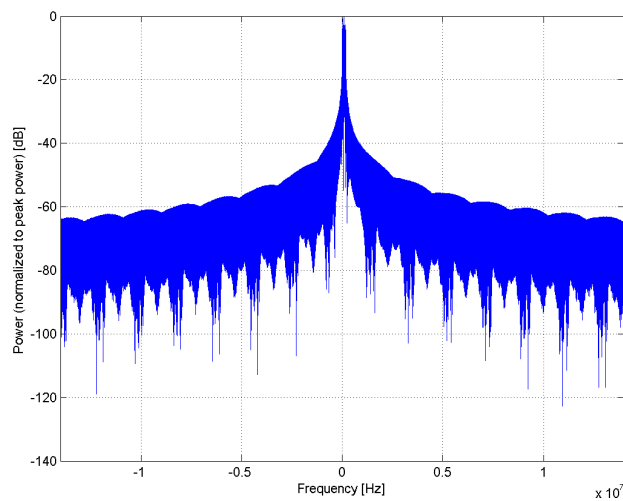
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

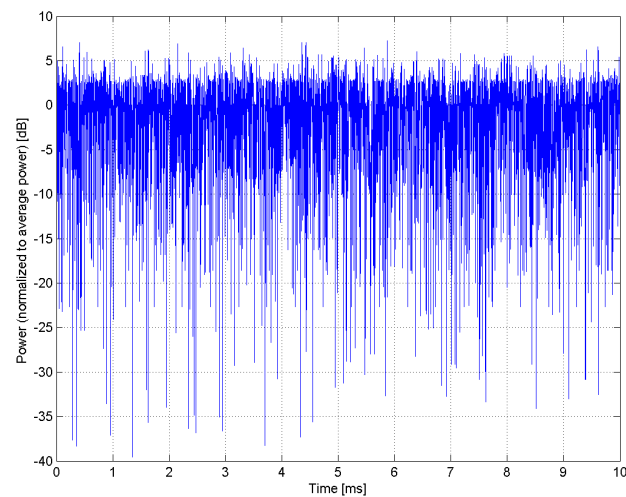
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10171-AAF

PAR: ¹ **6.49 dB**
MIF: ² **-9.93 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

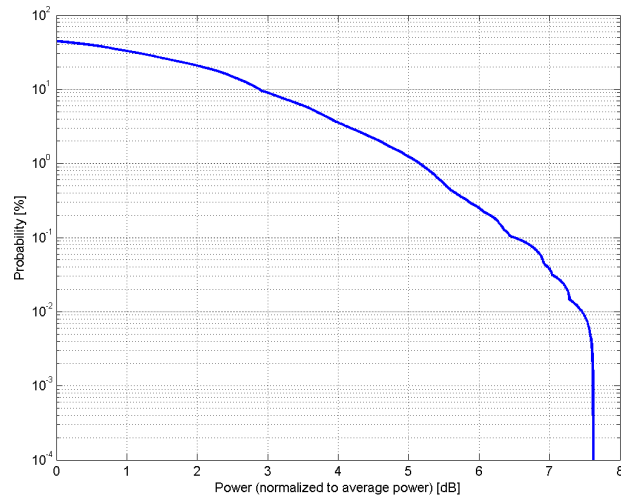
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 552
TBS Index: 23
MCS Index: 25
Data Type: PN9

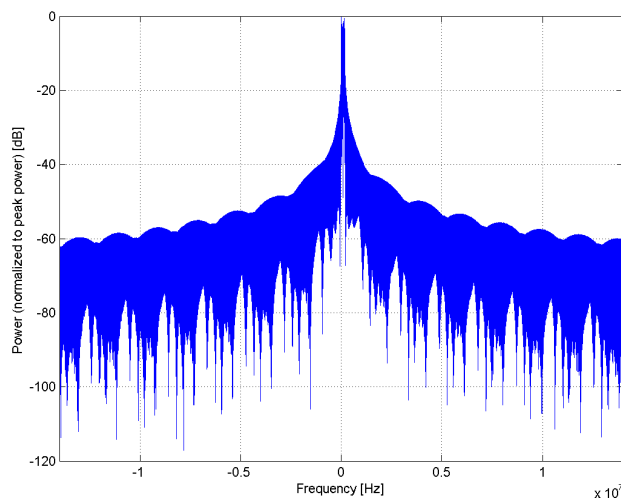
Bandwidth: 20.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

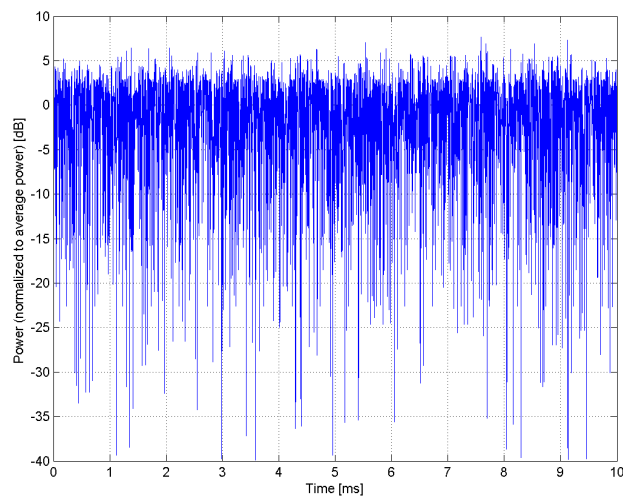
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)**

Group: LTE-TDD
UID: 10172-CAH

PAR: ¹ **9.21 dB**
MIF: ² **-1.62 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

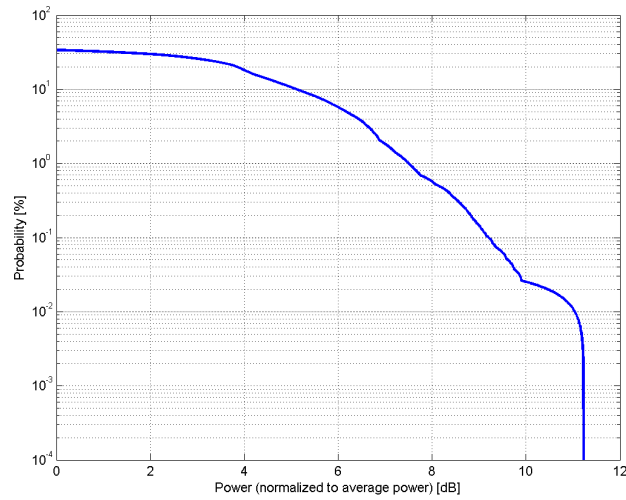
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

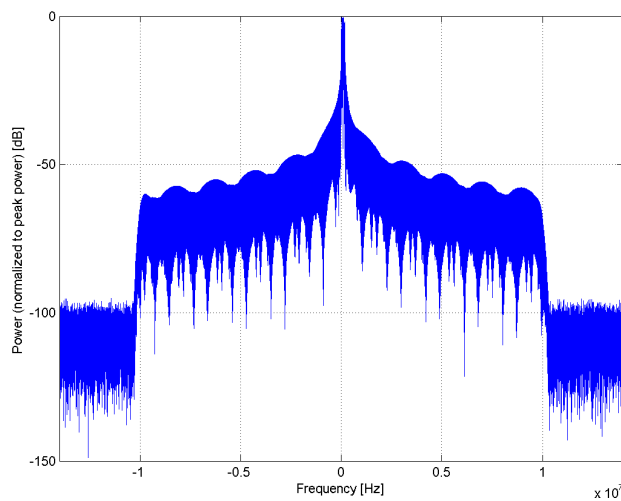
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

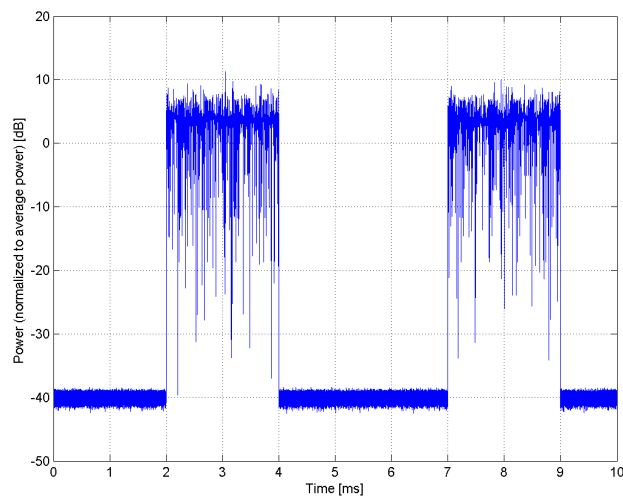
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10173-CAH

PAR: ¹ **9.48 dB**
MIF: ² **-1.44 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v02

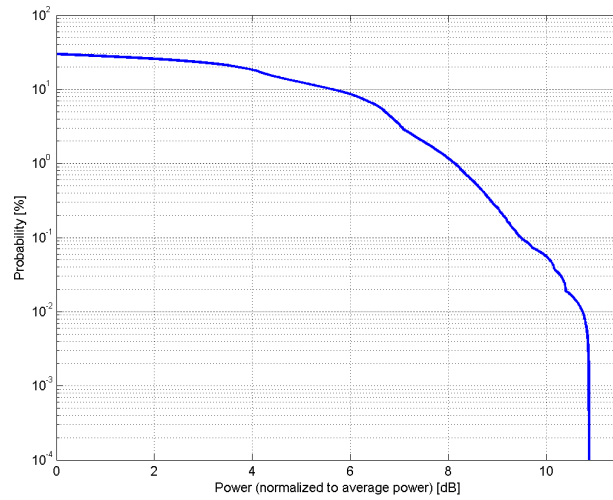
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

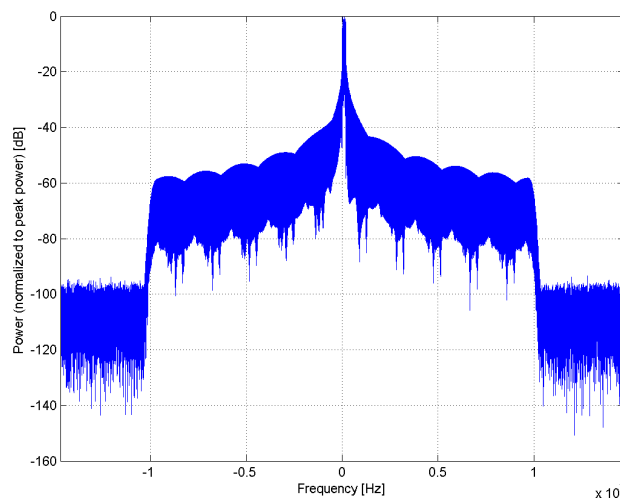
Bandwidth: 20.0 MHz
Integration Time: 6.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

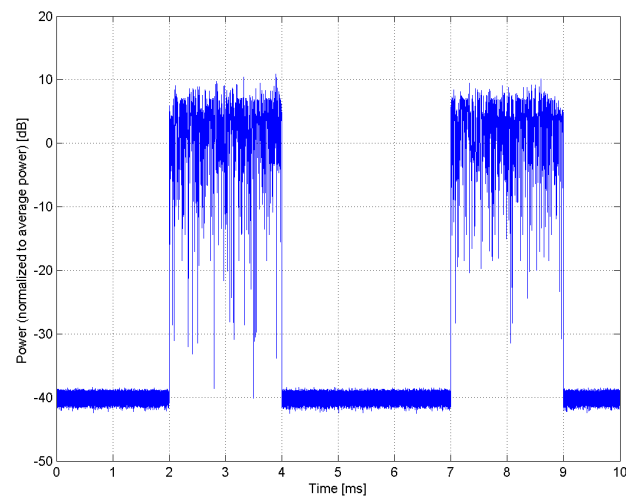
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10174-CAH

PAR: ¹ **10.25 dB**
MIF: ² **-1.54 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

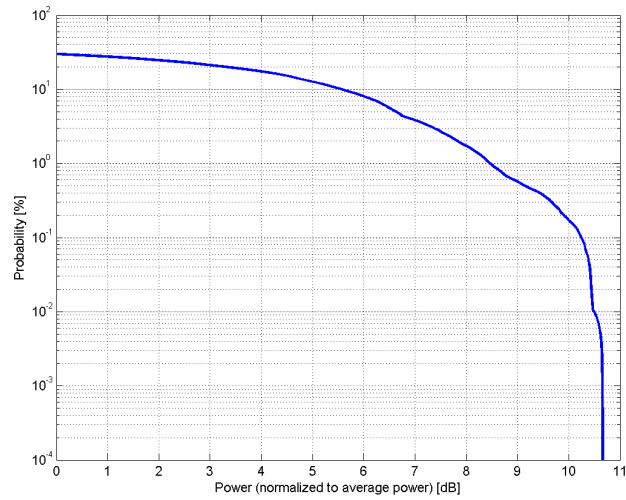
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

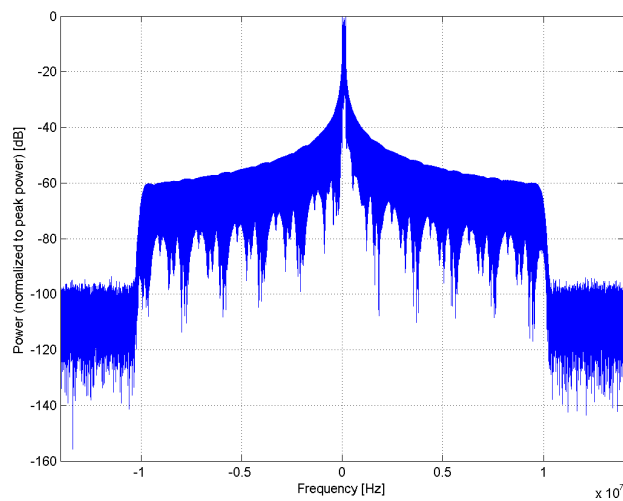
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

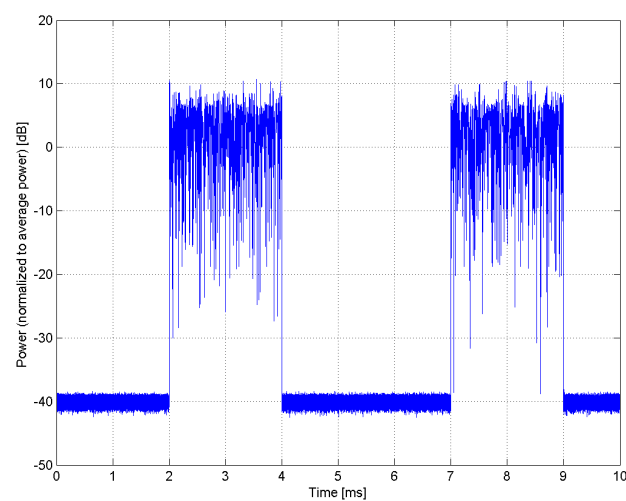
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)**

Group: LTE-FDD
UID: 10175-CAH

PAR: ¹ **5.72 dB**
MIF: ² **-15.63 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

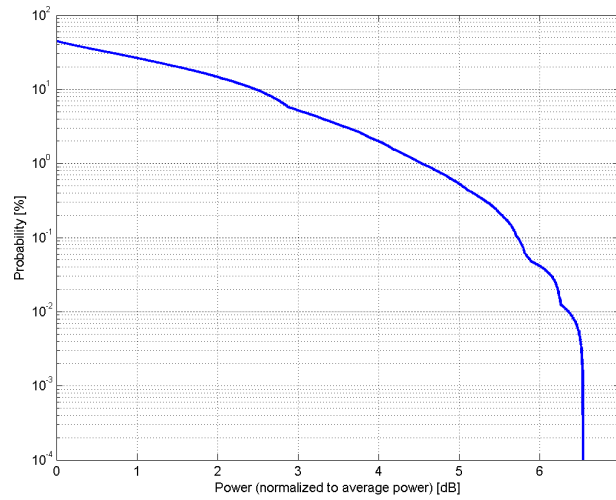
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 72
TBS Index: 5
MCS Index: 5
Data Type: PN9

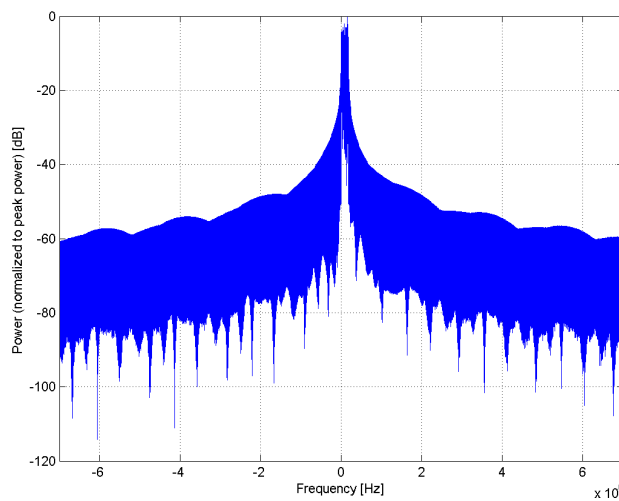
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

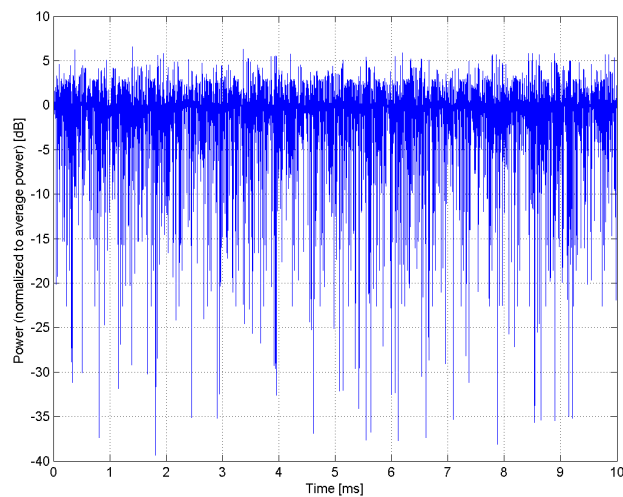
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10176-CAH

PAR: ¹ **6.52 dB**
MIF: ² **-9.76 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

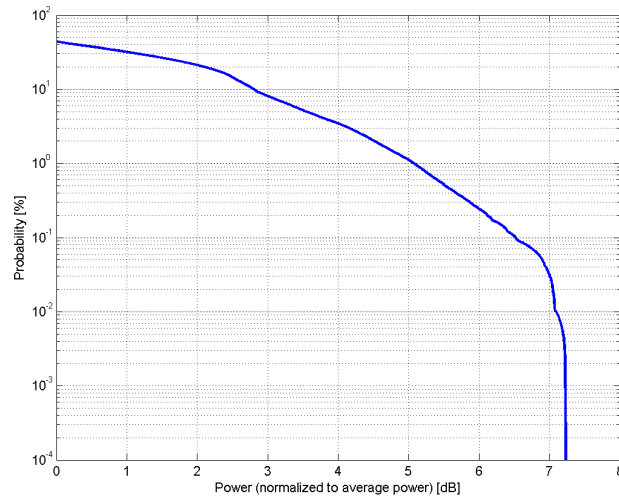
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: QPSK
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 256
TBS Index: 14
MCS Index: 15
Data Type: PN9

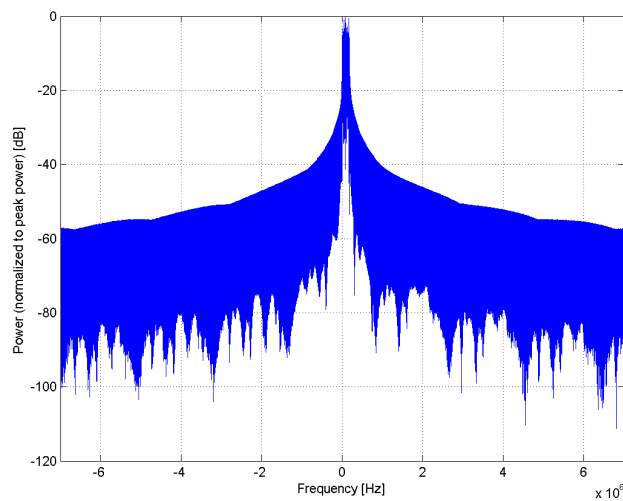
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

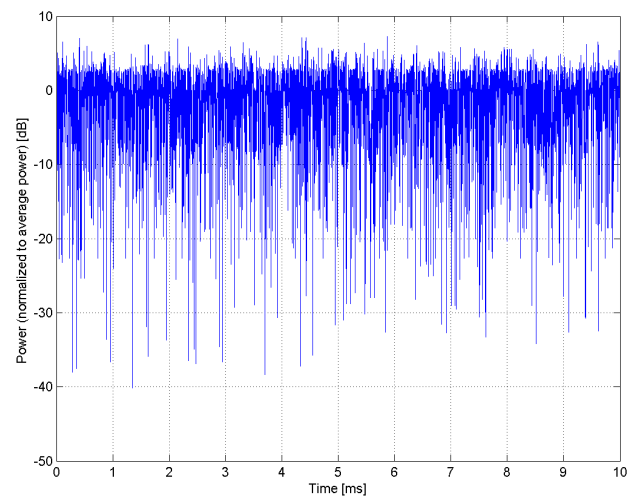
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



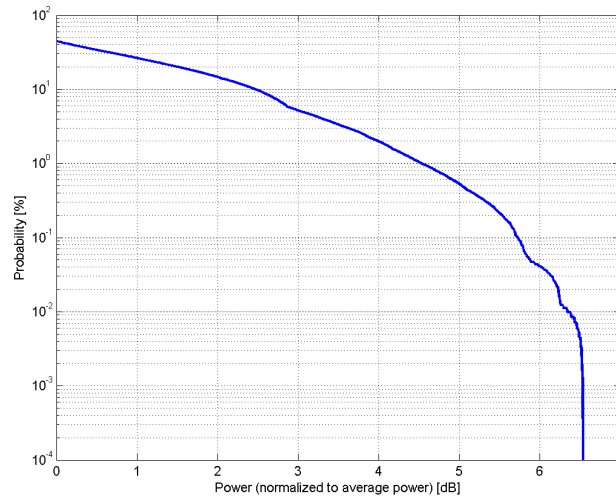
Time Domain

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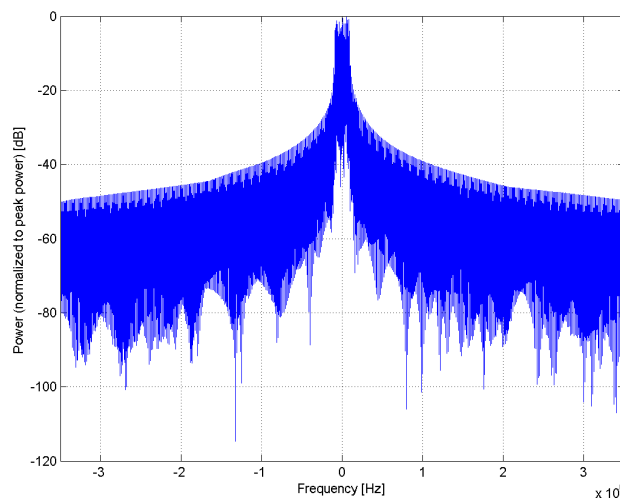
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10177-CAJ |
| PAR: ¹ | 5.73 dB |
| MIF: ² | -15.63 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 1 Transport Block Size: 72 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

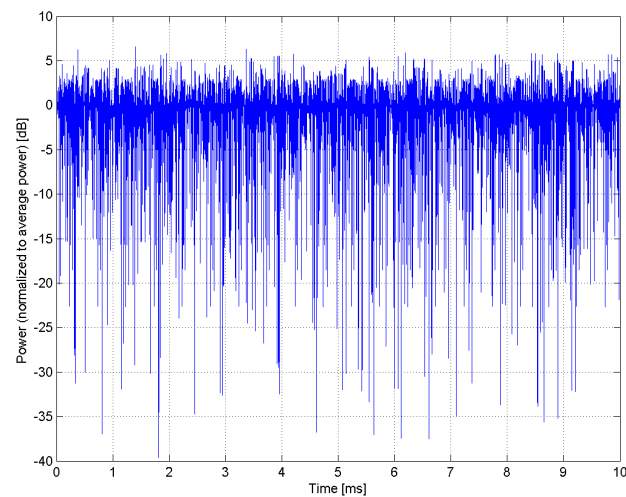
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



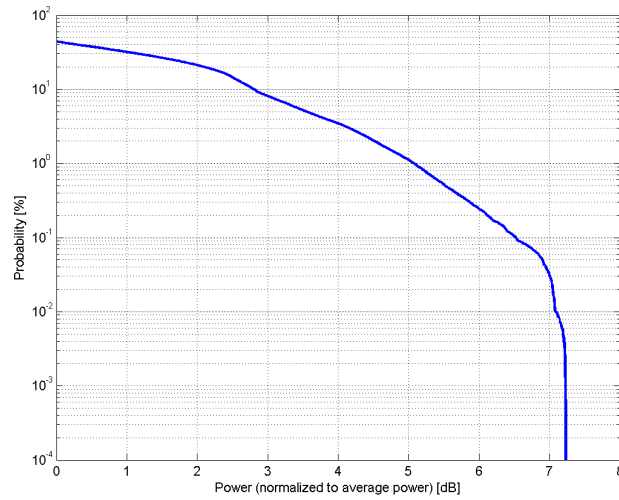
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

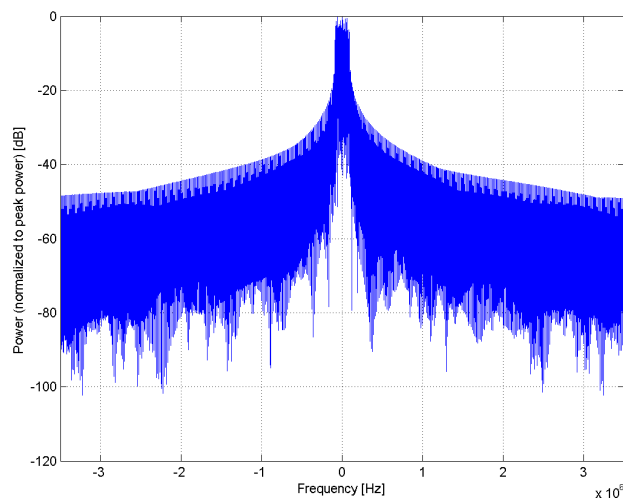
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10178-CAH |
| PAR: ¹ | 6.52 dB |
| MIF: ² | -9.76 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 256 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

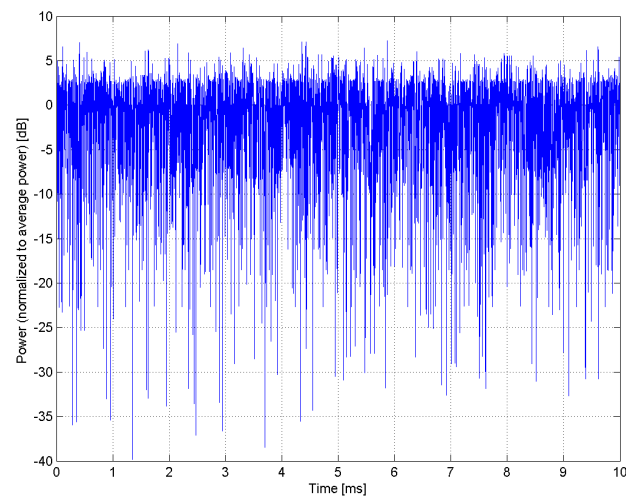
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10179-CAH

PAR: ¹ **6.50 dB**
MIF: ² **-9.93 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

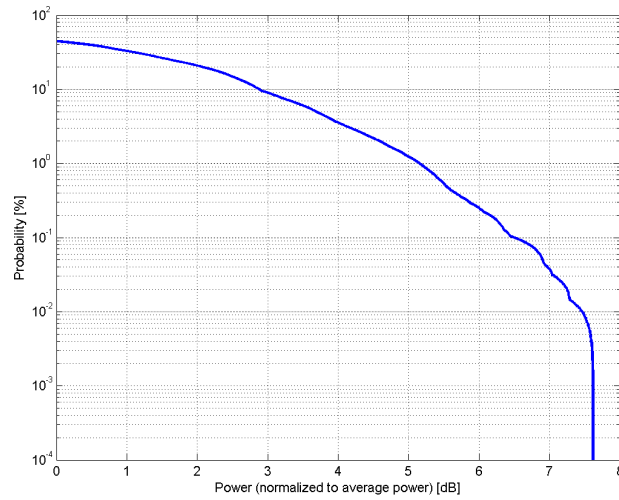
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1447.9 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 17 (704.0 - 716.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 24 (1626.5 - 1660.5 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 30 (2305.0 - 2315.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Band 85 (698.0 - 716.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 552
TBS Index: 23
MCS Index: 25
Data Type: PN9

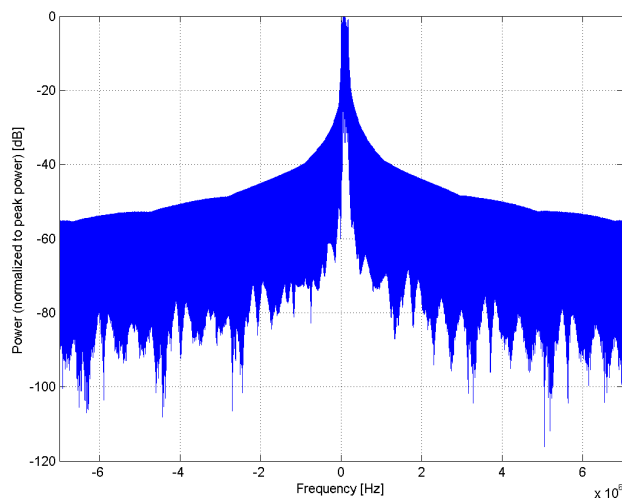
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

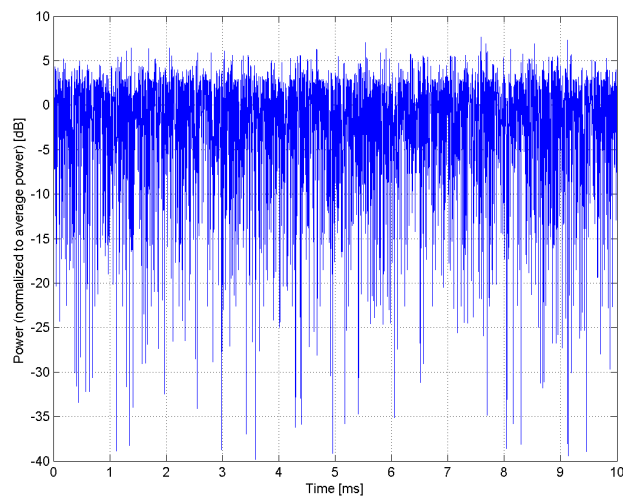
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



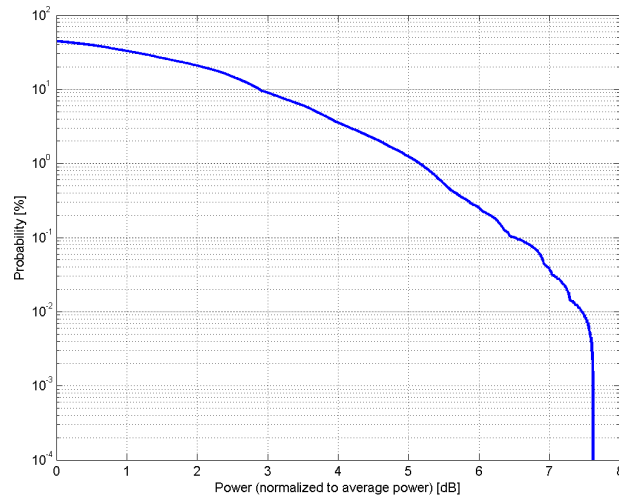
Time Domain

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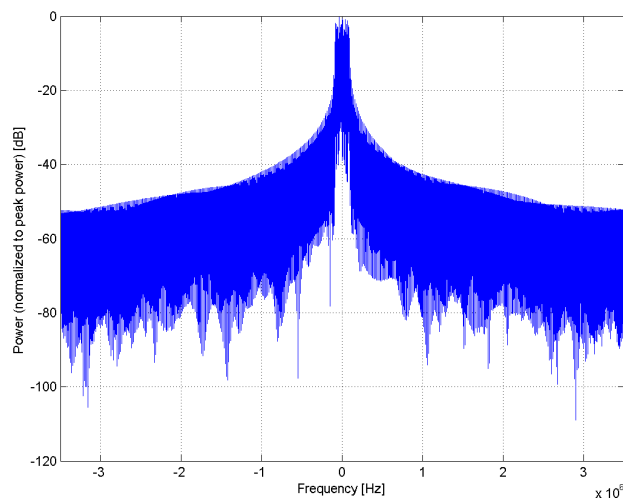
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10180-CAH |
| PAR: ¹ | 6.50 dB |
| MIF: ² | -9.93 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1447.9 MHz) Band 12 (699.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 17 (704.0 - 716.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 24 (1626.5 - 1660.5 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 30 (2305.0 - 2315.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Band 85 (698.0 - 716.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 552 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

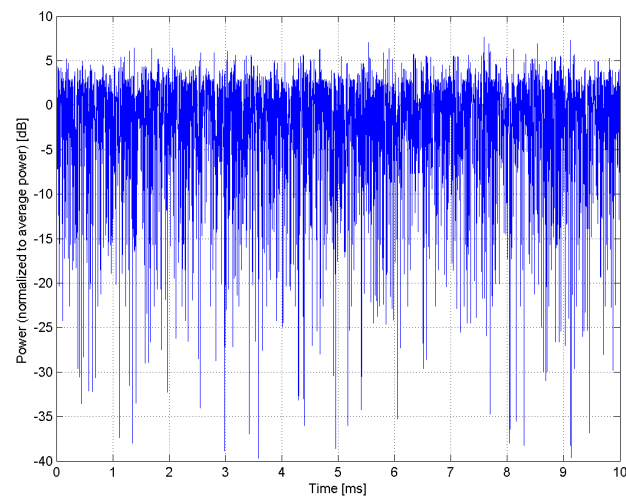
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



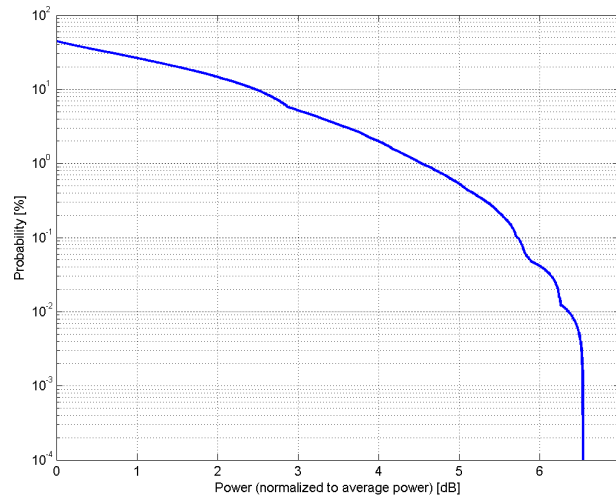
Time Domain

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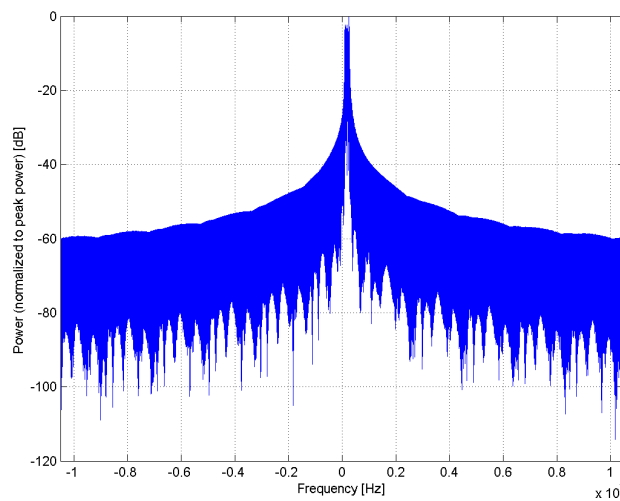
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10181-CAF |
| PAR: ¹ | 5.72 dB |
| MIF: ² | -15.63 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 1 Transport Block Size: 72 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

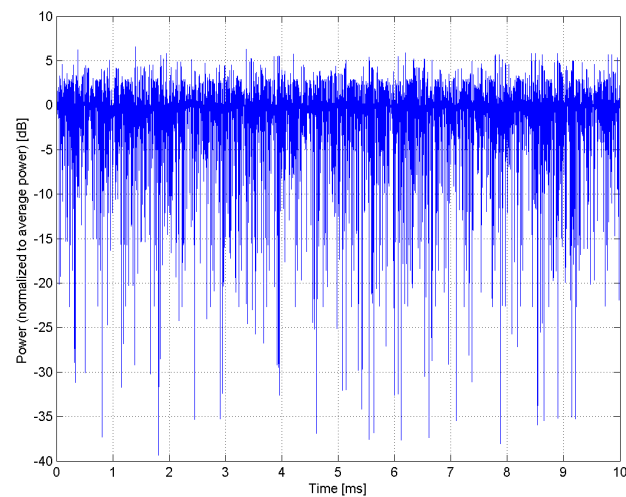
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10182-CAF

PAR: ¹ **6.52 dB**
MIF: ² **-9.76 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

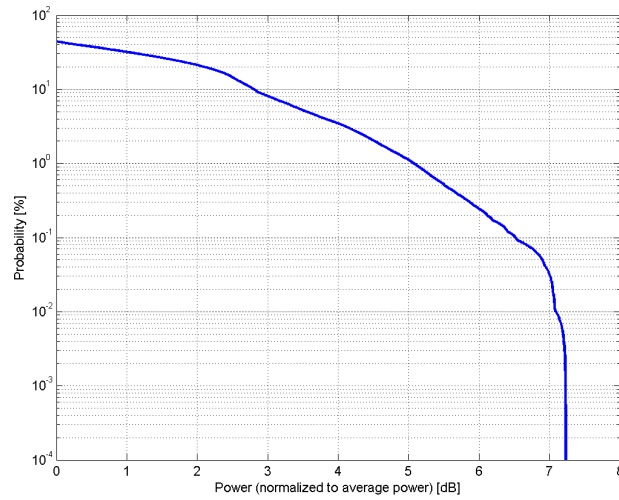
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 18 (815.0 - 830.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 65 (1920.0 - 2010.0 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 68 (698.0 - 728.0 MHz)
Band 70 (1695.0 - 1710.0 MHz)
Band 71 (663.0 - 698.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 1
Transport Block Size: 256
TBS Index: 14
MCS Index: 15
Data Type: PN9

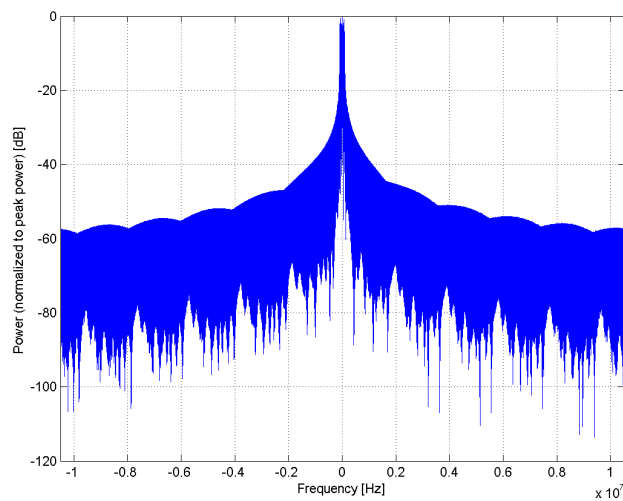
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

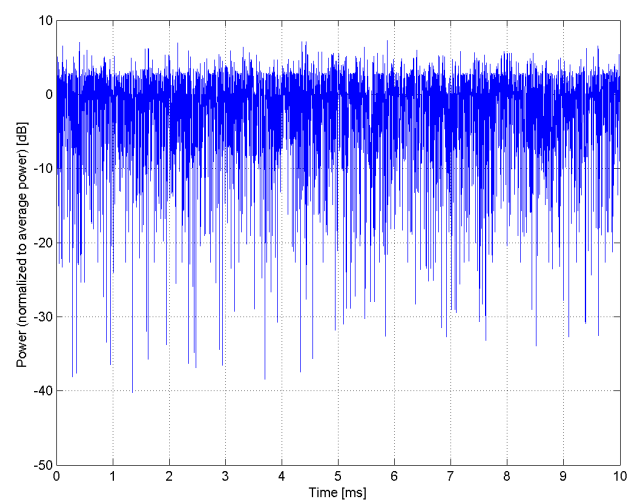
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



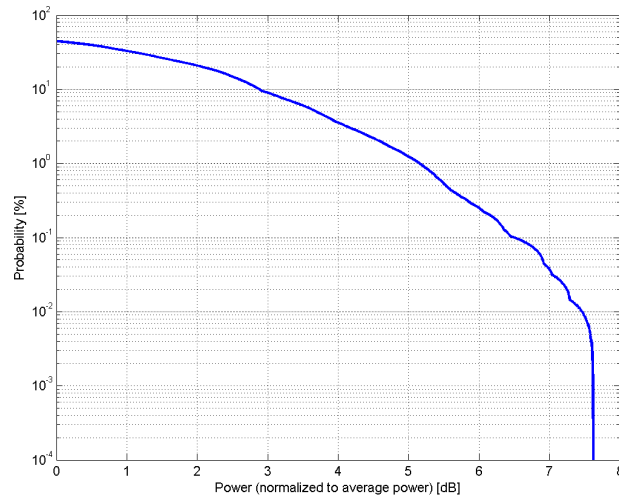
Time Domain

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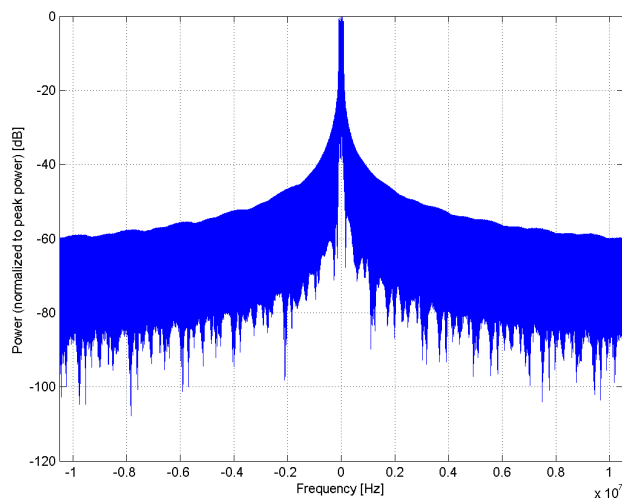
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10183-AAE |
| PAR: ¹ | 6.50 dB |
| MIF: ² | -9.93 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 552 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

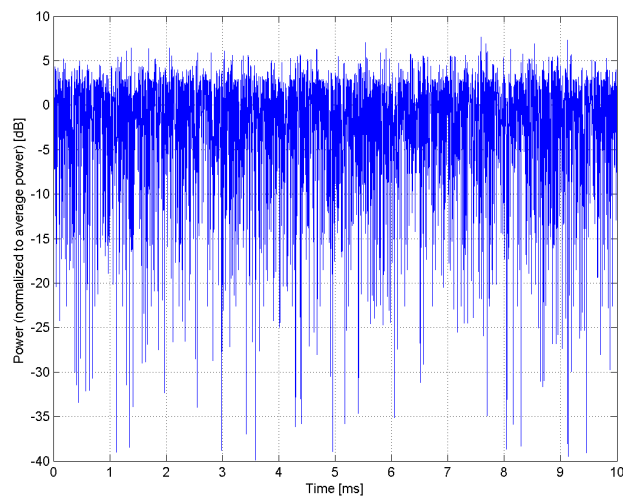
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



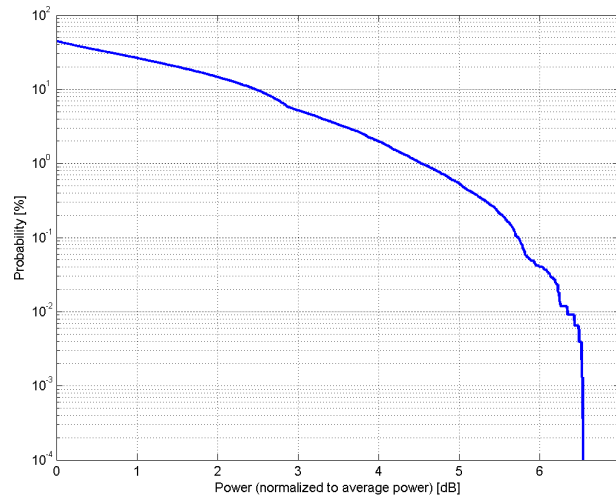
Time Domain

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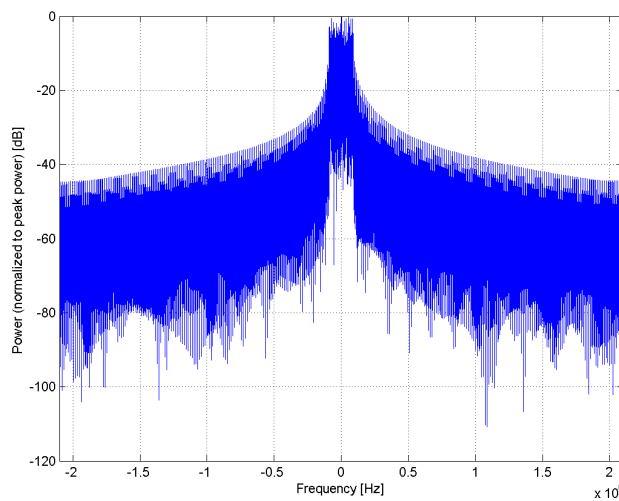
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10184-CAF |
| PAR: ¹ | 5.73 dB |
| MIF: ² | -15.62 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 1 Transport Block Size: 72 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

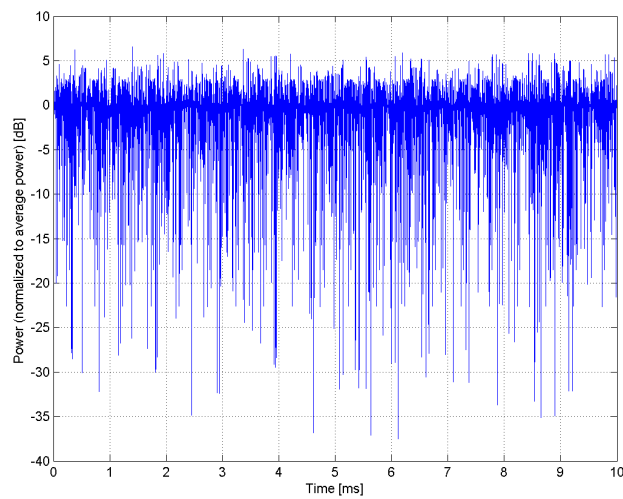
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



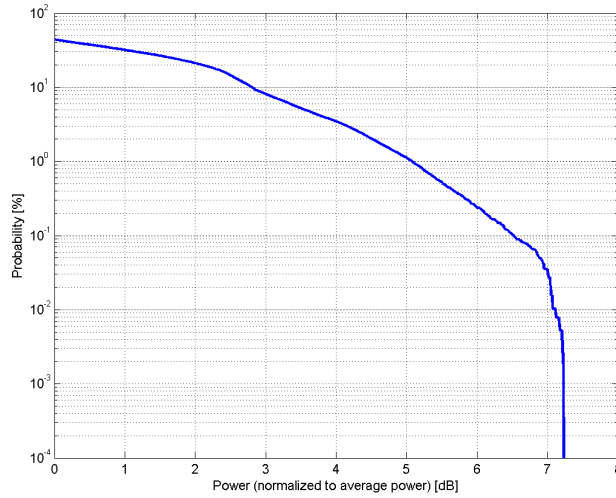
Time Domain

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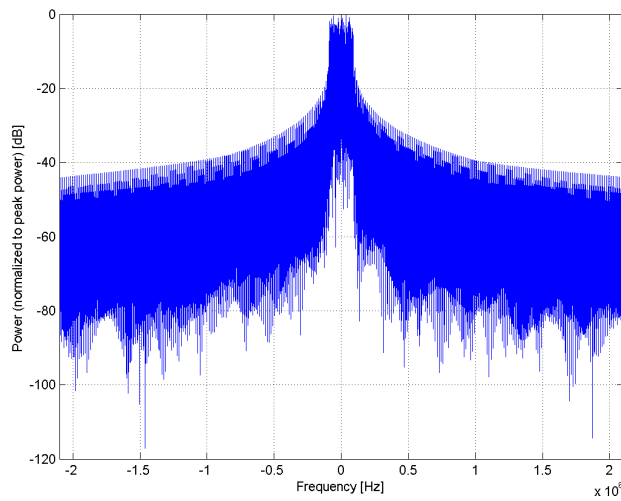
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10185-CAF |
| PAR: ¹ | 6.51 dB |
| MIF: ² | -9.76 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 256 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

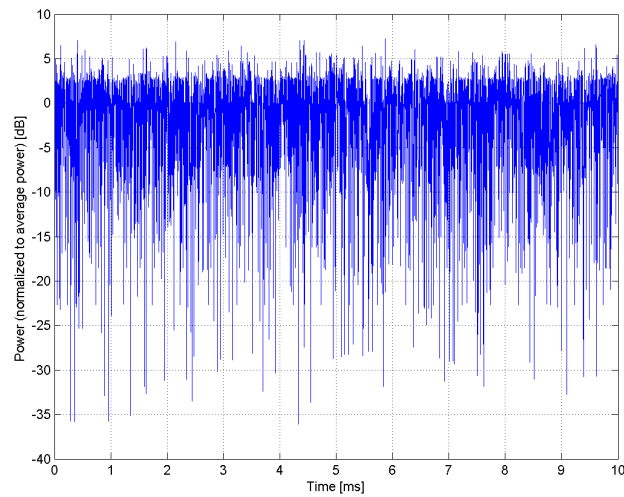
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



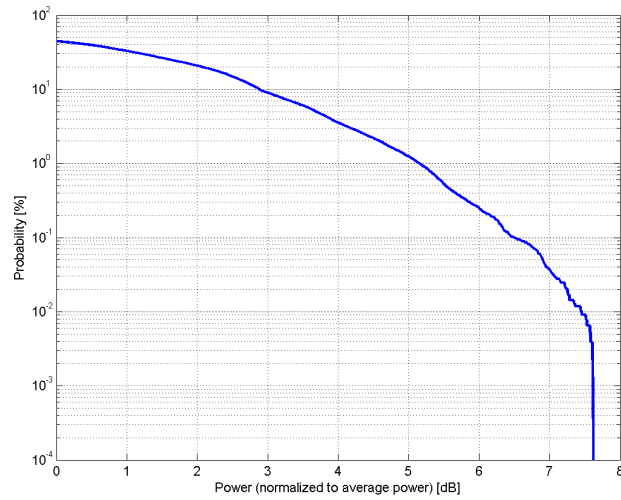
Time Domain

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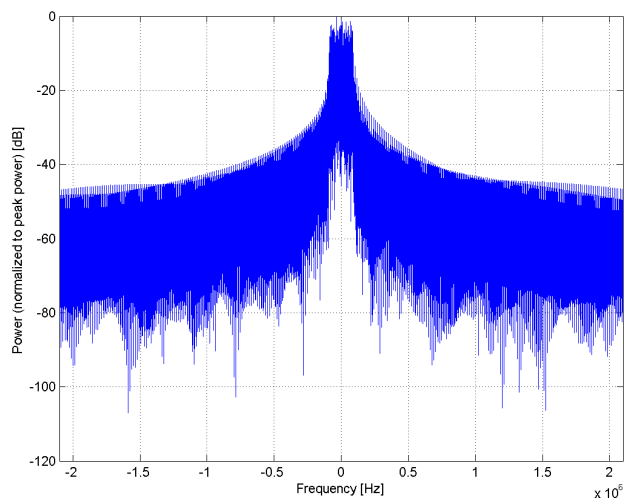
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10186-AAF |
| PAR: ¹ | 6.50 dB |
| MIF: ² | -9.93 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 552 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

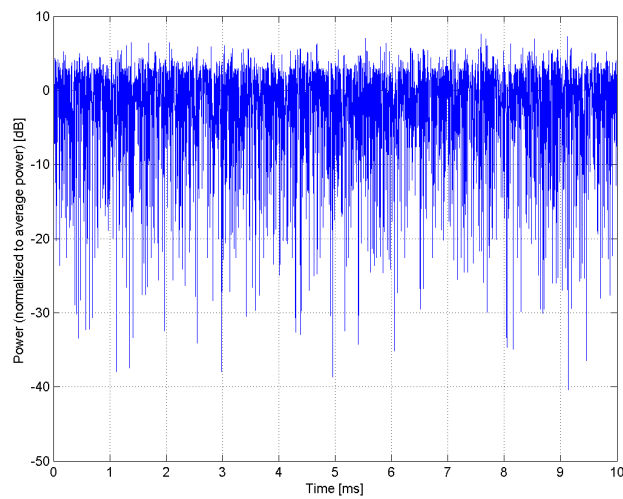
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



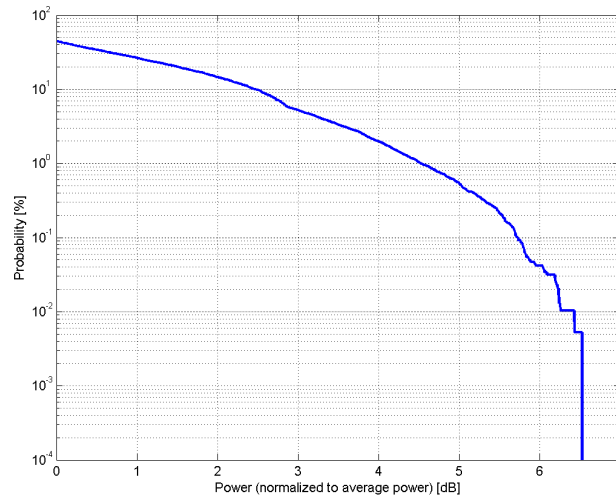
Time Domain

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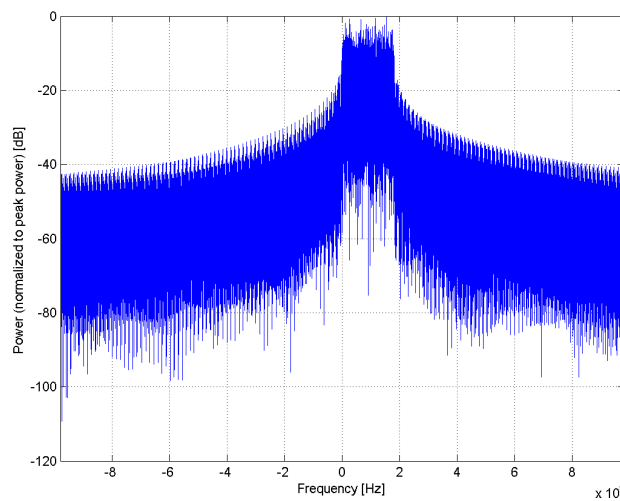
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10187-CAG |
| PAR: ¹ | 5.73 dB |
| MIF: ² | -15.62 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 1 Transport Block Size: 72 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

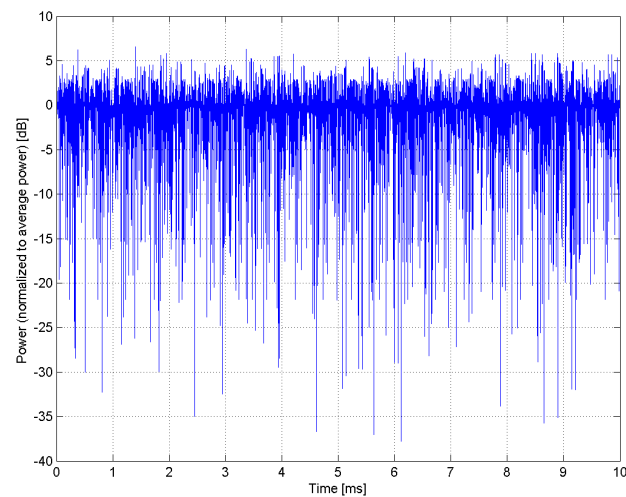
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



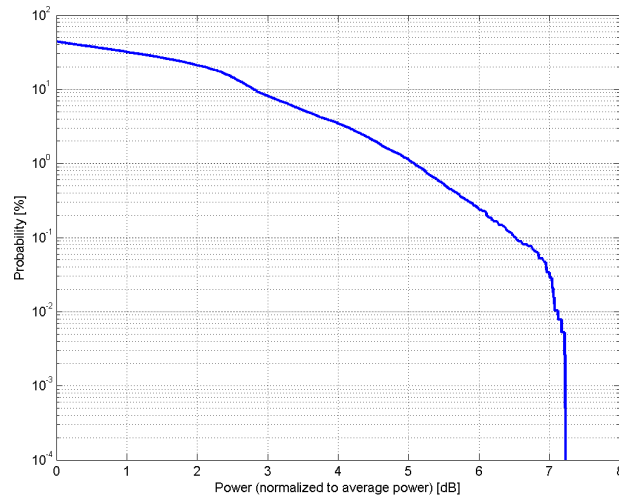
Time Domain

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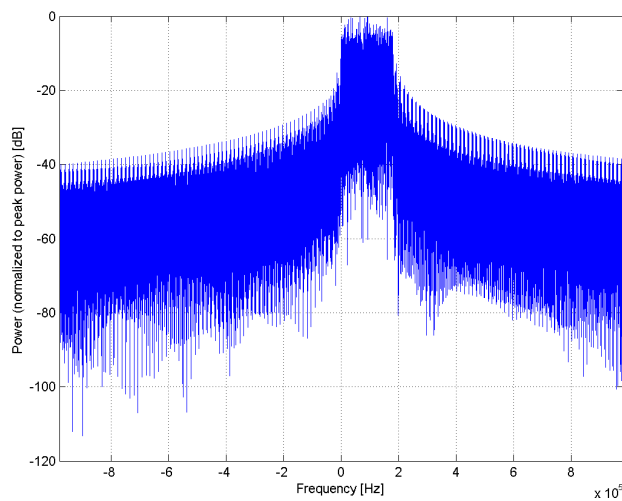
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) |
| Group: | LTE-FDD |
| UID: | 10188-CAG |
| PAR: ¹ | 6.52 dB |
| MIF: ² | -9.76 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 256 TBS Index: 14 MCS Index: 15 Data Type: PN9 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

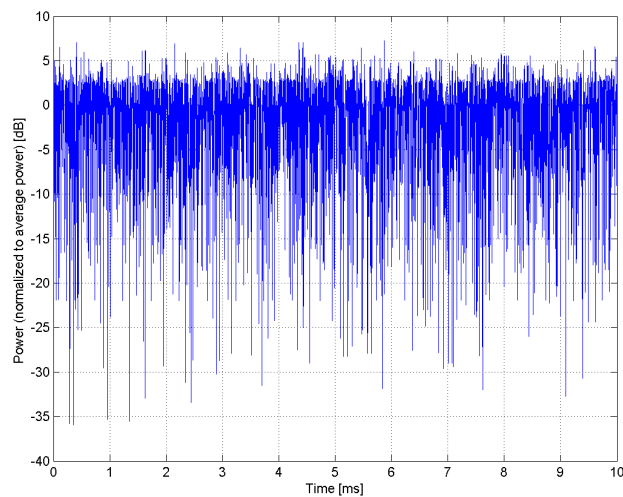
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



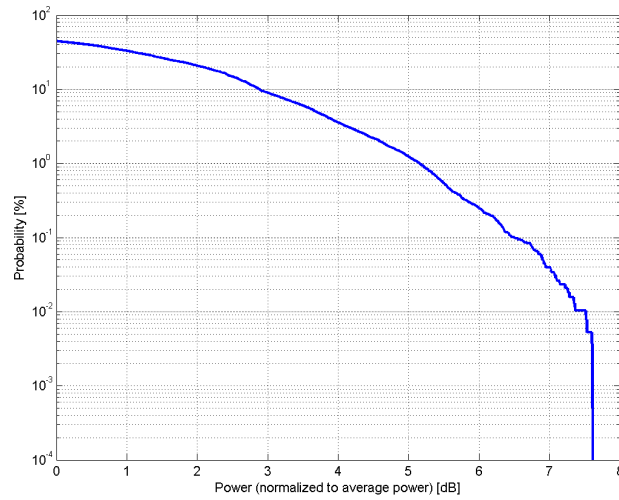
Time Domain

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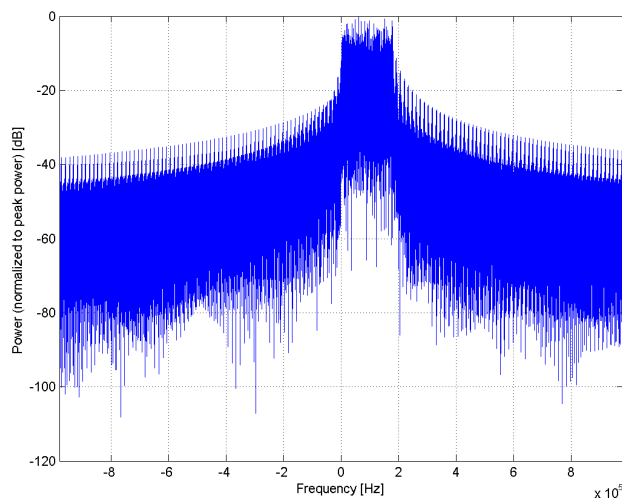
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) |
| Group: | LTE-FDD |
| UID: | 10189-AAG |
| PAR: ¹ | 6.50 dB |
| MIF: ² | -9.93 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 64QAM Data Type: UL-SCH Number RB: 1 Transport Block Size: 552 TBS Index: 23 MCS Index: 25 Data Type: PN9 |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

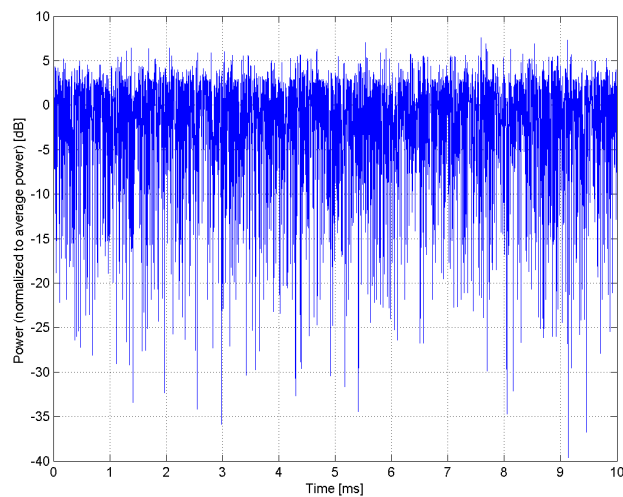
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



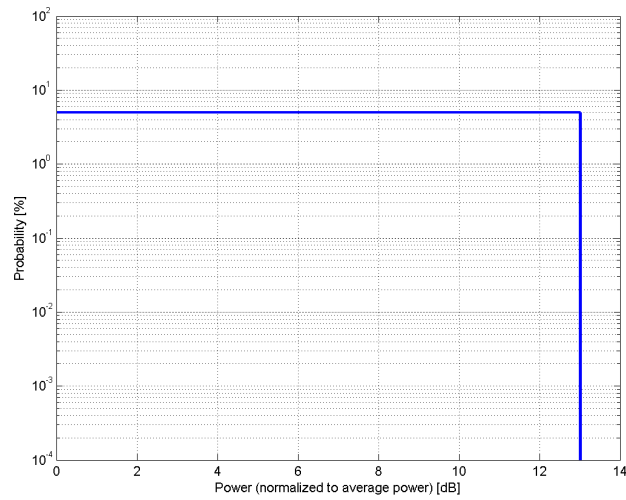
Time Domain

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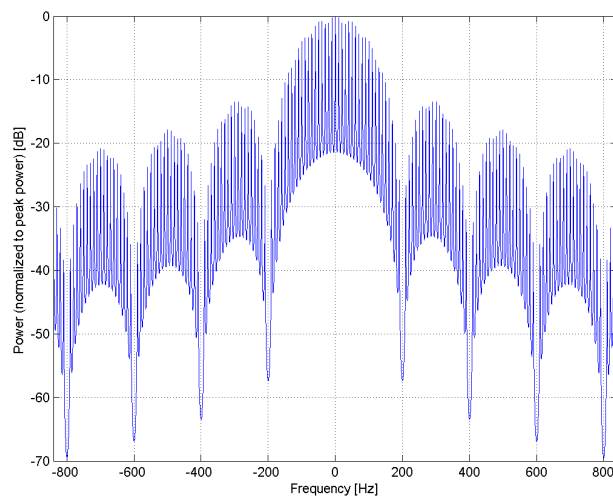
| | |
|-------------------------|---|
| Name: | MRI (Square, 100ms, 5ms) |
| Group: | MRI |
| UID: | 10190-CAC |
| PAR: ¹ | 13.01 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Custom Calibration Sequence Pulse Shape: rectangular Repetition Rate: 10 Hz Duty Cycle: 5% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

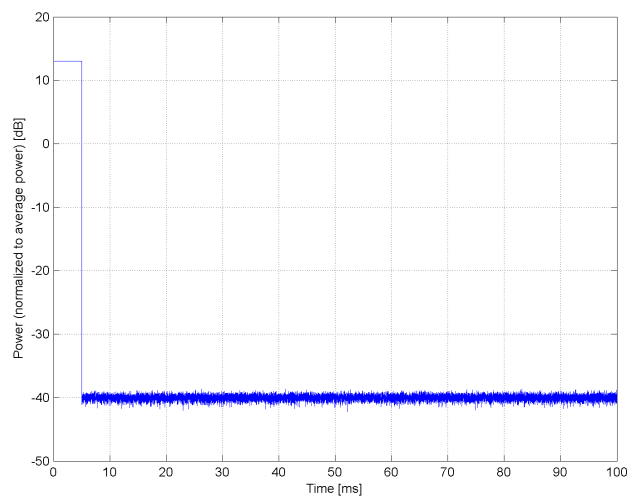
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)**

Group: WLAN
UID: 10193-CAE

PAR: ¹ **8.09 dB**
MIF: ² **-15.80 dB**

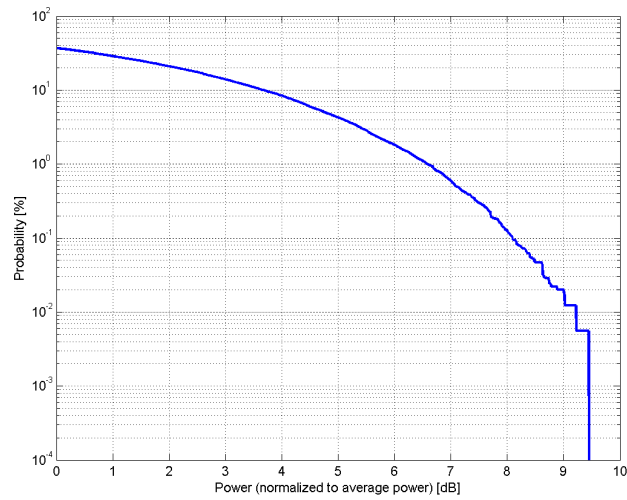
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 6.5 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 0
Guard Interval: Long
Payload Length: 1767

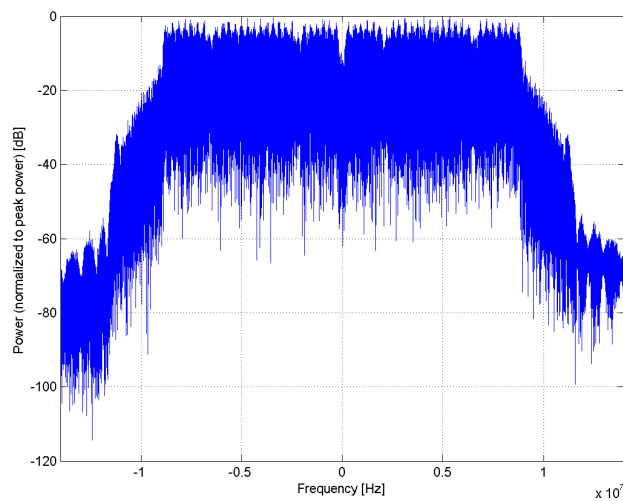
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

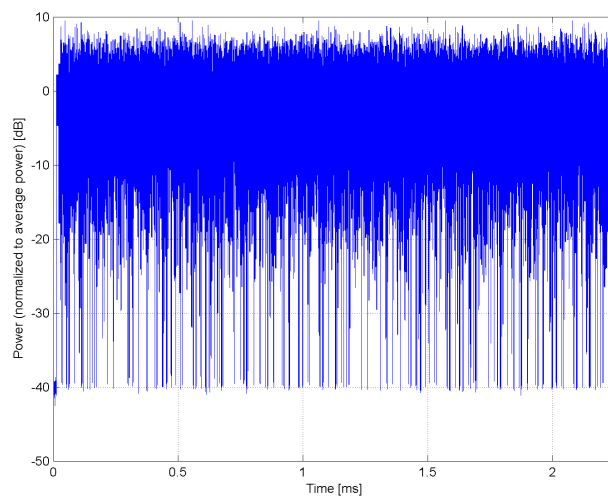
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)**

Group: WLAN
UID: 10194-CAE

PAR: ¹ **8.12 dB**
MIF: ² **-16.17 dB**

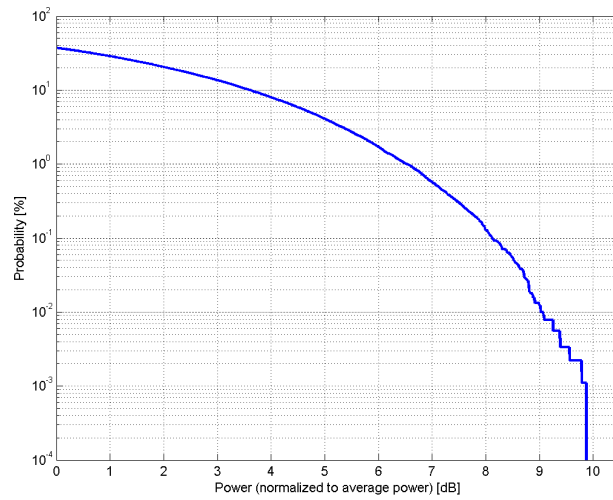
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 39 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 4
Guard Interval: Long
Payload Length: 10766

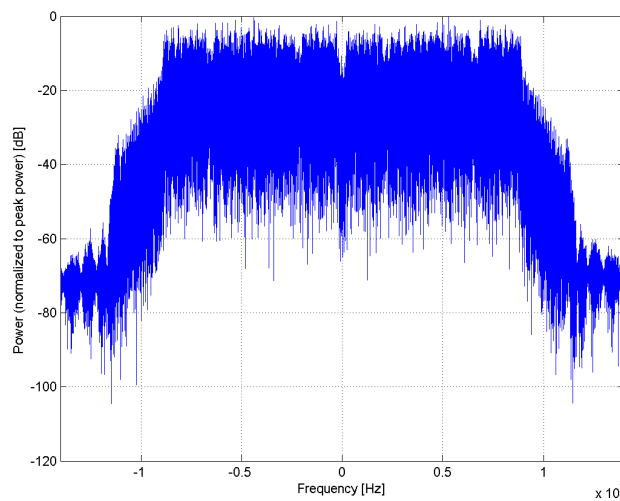
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

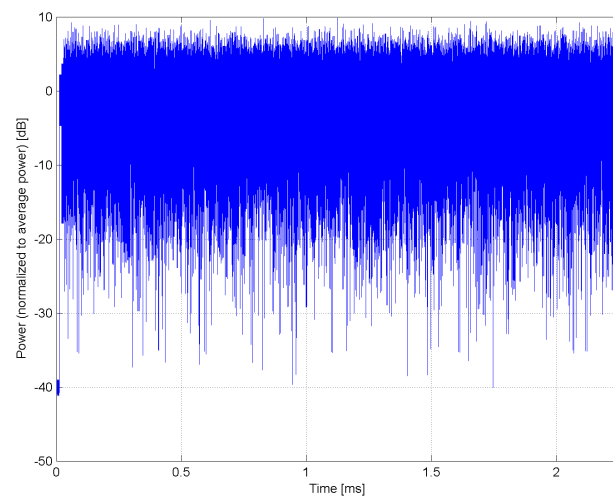
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)**

Group: WLAN
UID: 10195-CAE

PAR: ¹ **8.21 dB**
MIF: ² **-15.73 dB**

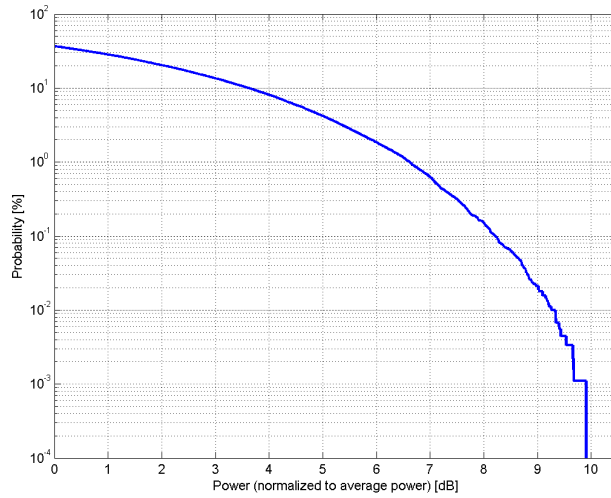
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 65 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 7
Guard Interval: Long
Payload Length: 17968

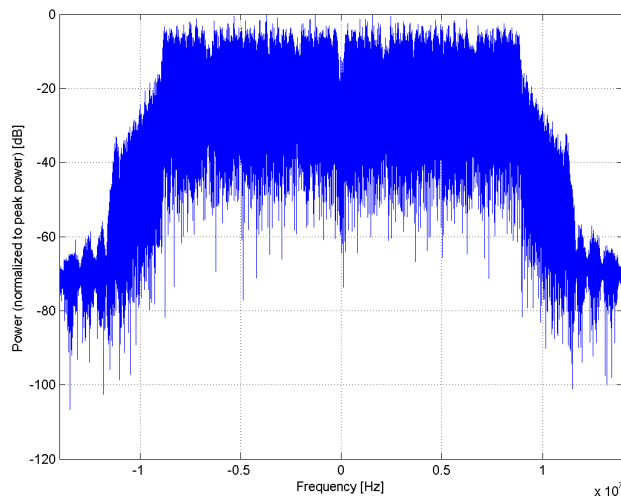
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

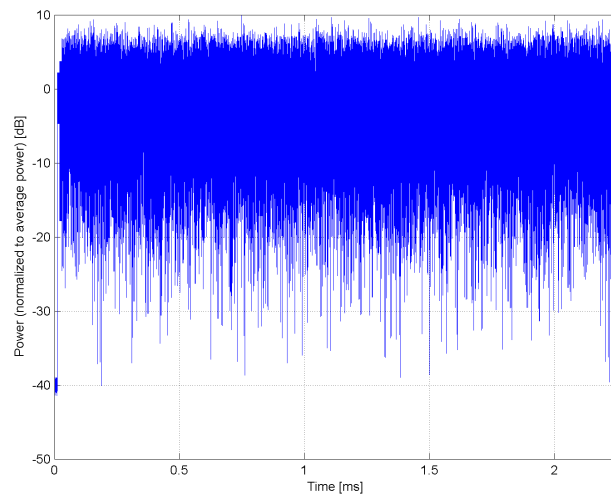
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)**

Group: WLAN
UID: 10196-CAE

PAR: ¹ **8.10 dB**
MIF: ² **-16.16 dB**

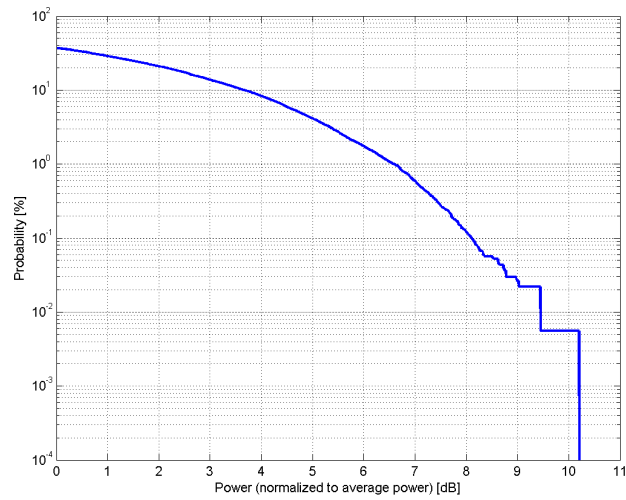
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 6.5 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 0
Guard Interval: Long
Payload Length: 1767

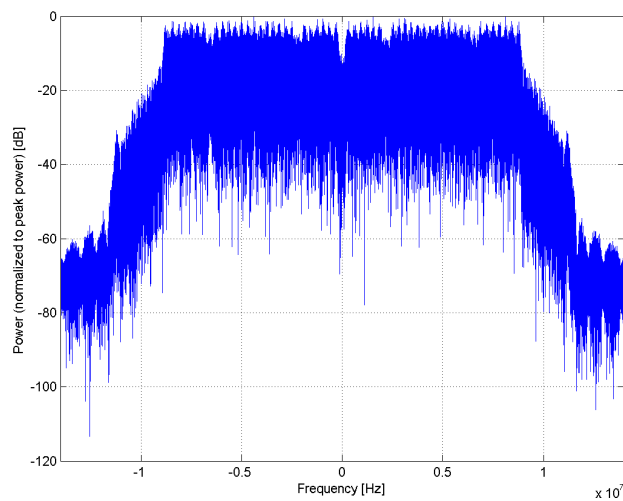
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

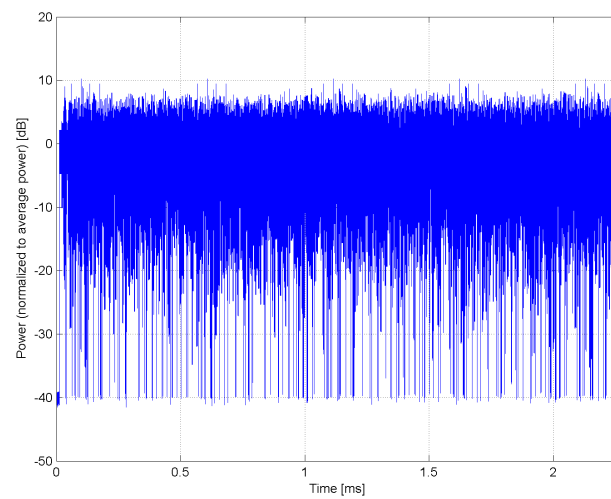
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)**

Group: WLAN
UID: 10197-CAE

PAR: ¹ **8.13 dB**
MIF: ² **-16.43 dB**

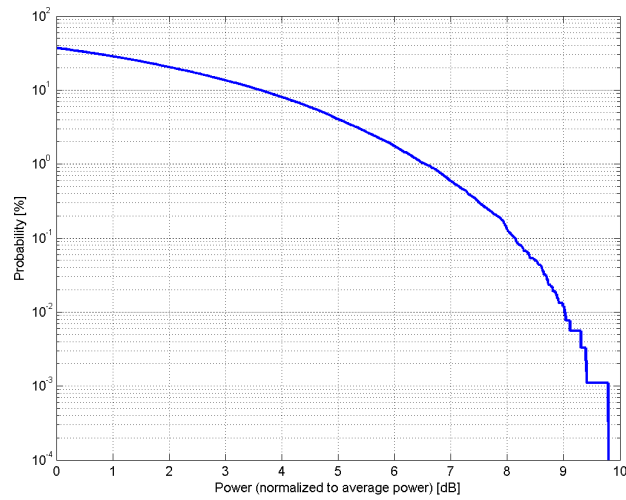
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 39 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 4
Guard Interval: Long
Payload Length: 10766

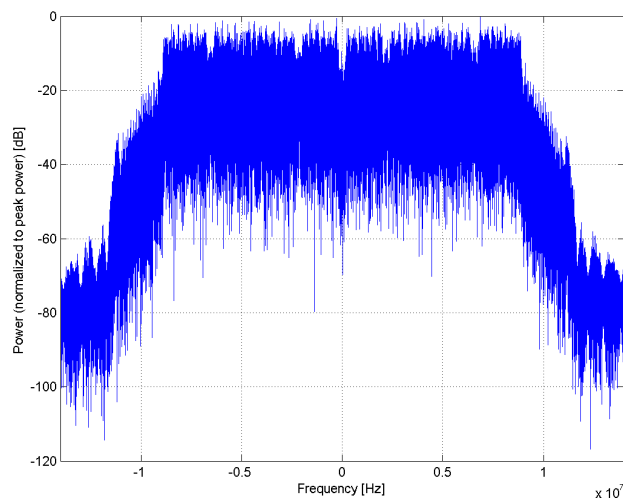
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

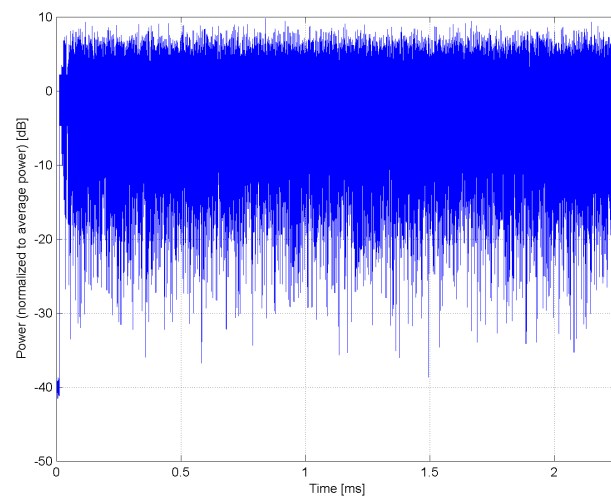
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)**

Group: WLAN
UID: 10198-CAE

PAR: ¹ **8.27 dB**
MIF: ² **-15.98 dB**

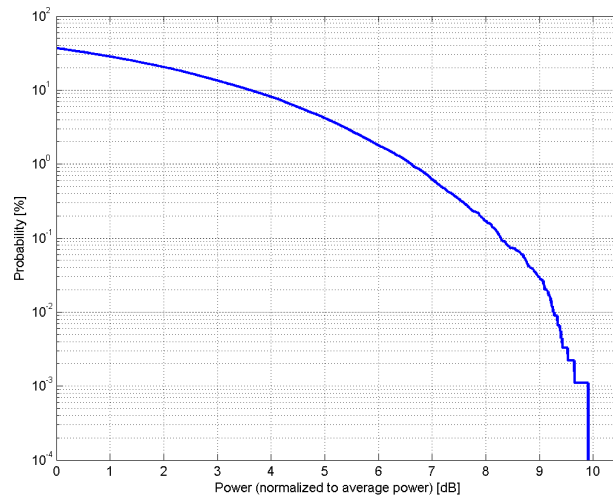
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 65 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 7
Guard Interval: Long
Payload Length: 17968

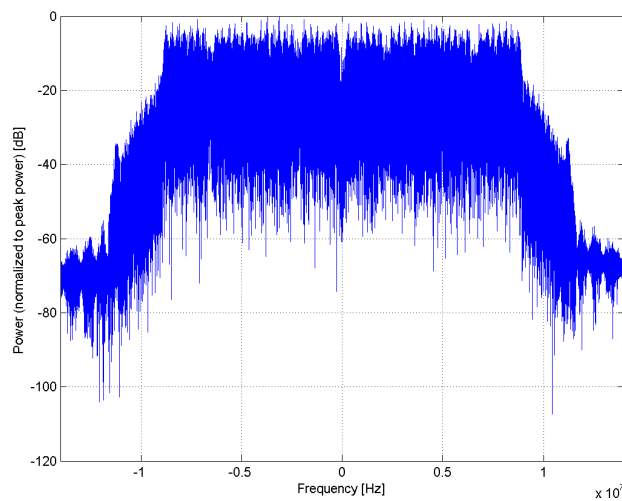
Bandwidth: 20.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

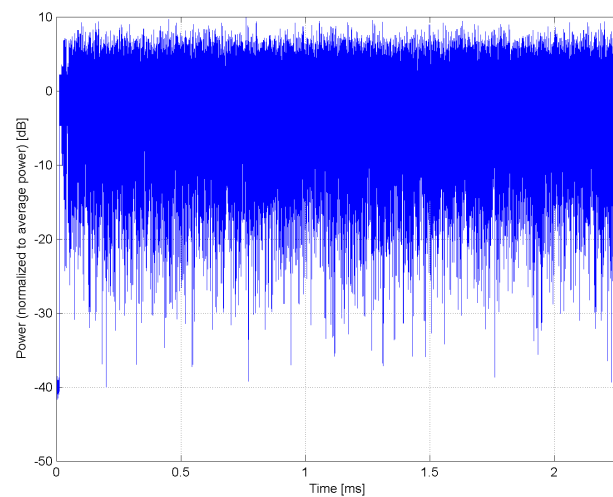
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



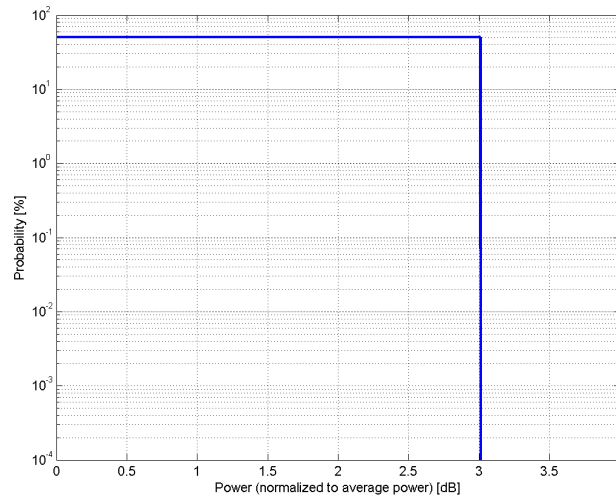
Time Domain

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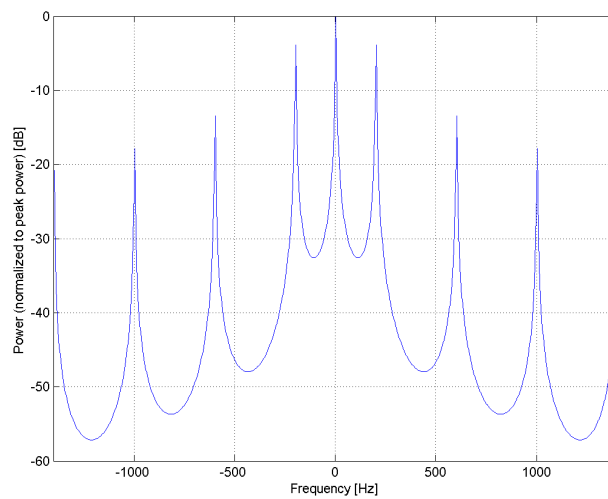
| | |
|-------------------------|---|
| Name: | MRI (Square, 5ms, 2.5ms) |
| Group: | MRI |
| UID: | 10199-DAC |
| PAR: ¹ | 3.01 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Custom Calibration Sequence Pulse Shape: rectangular Repetition Rate: 200 Hz Duty Cycle: 50% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

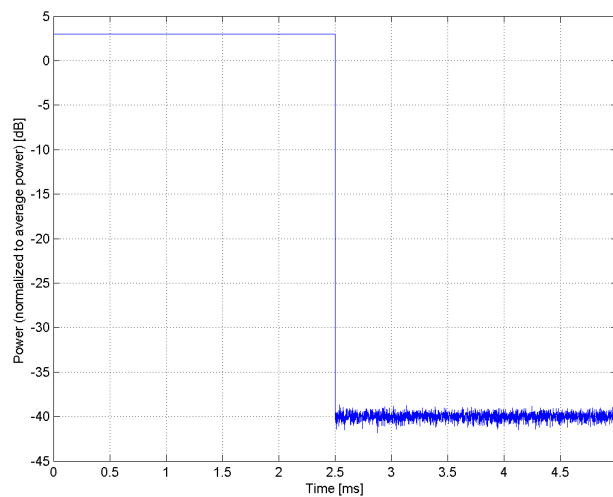
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)**

Group: WLAN
UID: 10219-CAE

PAR: ¹ **8.03 dB**
MIF: ² **-15.94 dB**

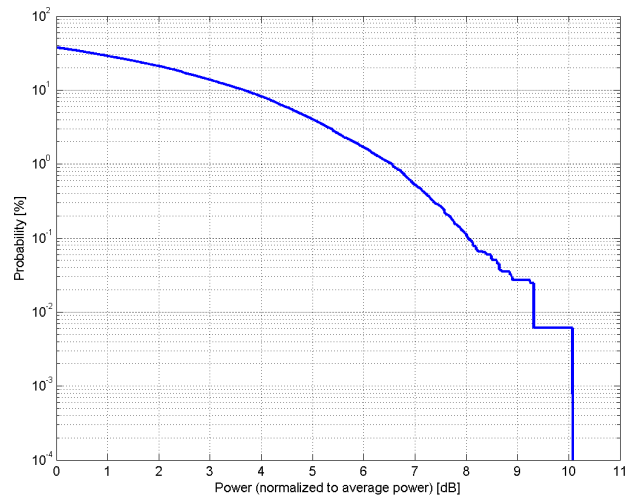
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 7.2 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 0
Guard Interval: Short
Payload Length: 1761

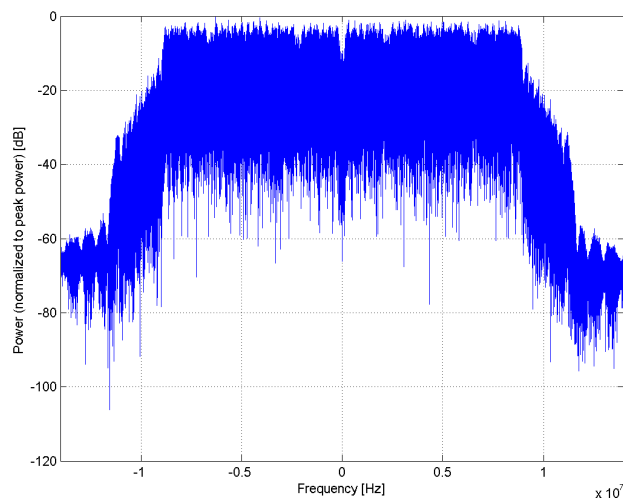
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

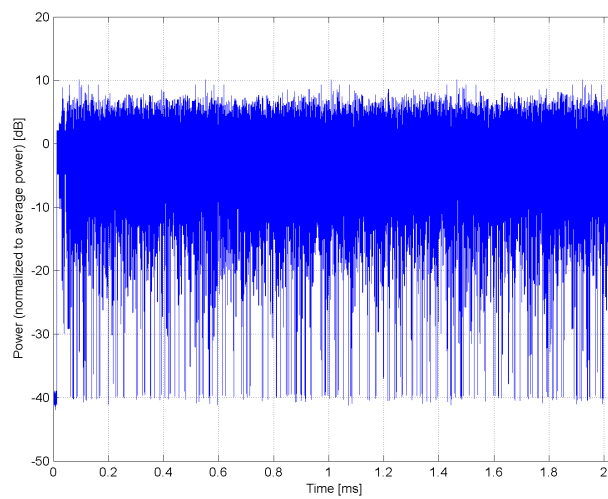
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)**

Group: WLAN
UID: 10220-CAE

PAR: ¹ **8.13 dB**
MIF: ² **-16.33 dB**

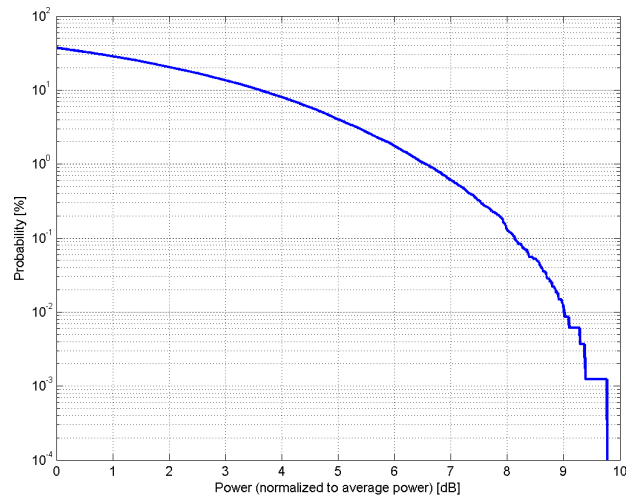
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 43.3 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 4
Guard Interval: Short
Payload Length: 10757

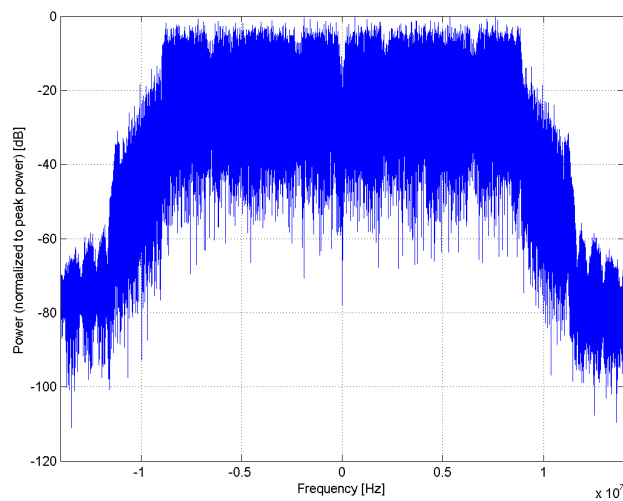
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

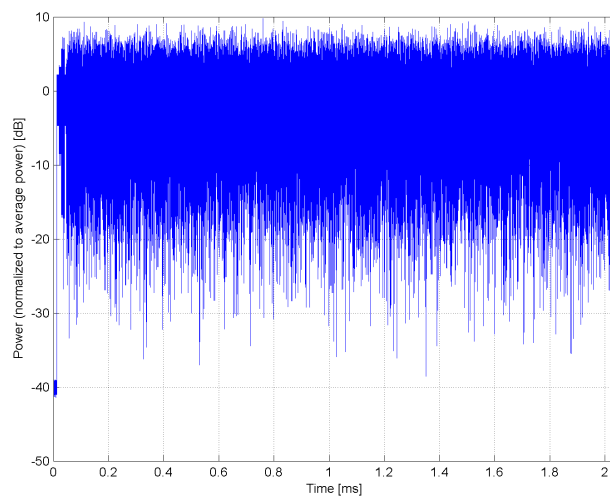
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)**

Group: WLAN
UID: 10221-CAE

PAR: ¹ **8.27 dB**
MIF: ² **-16.16 dB**

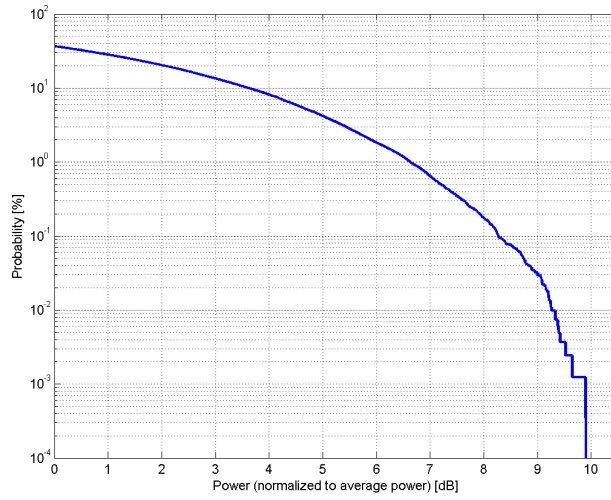
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 72.2 Mbps
PPDU Format: HT Mixed
PPDU Type: 20 MHz
MCS Index: 7
Guard Interval: Short
Payload Length: 17962

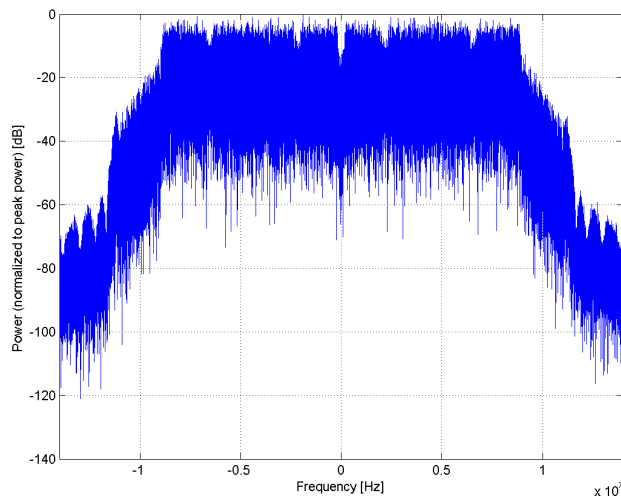
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

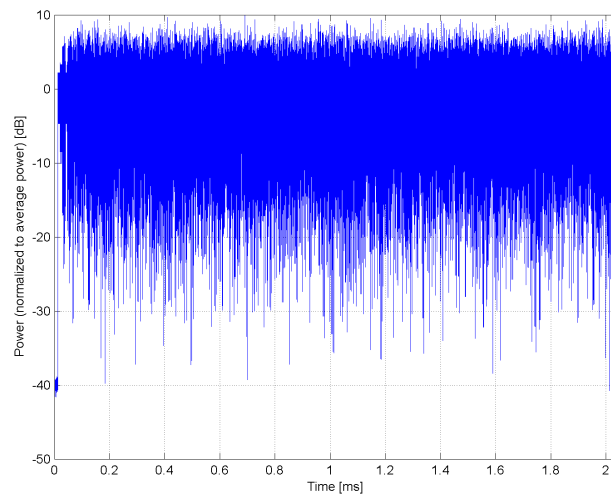
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)**

Group: WLAN
UID: 10222-CAE

PAR: ¹ **8.06 dB**
MIF: ² **-17.00 dB**

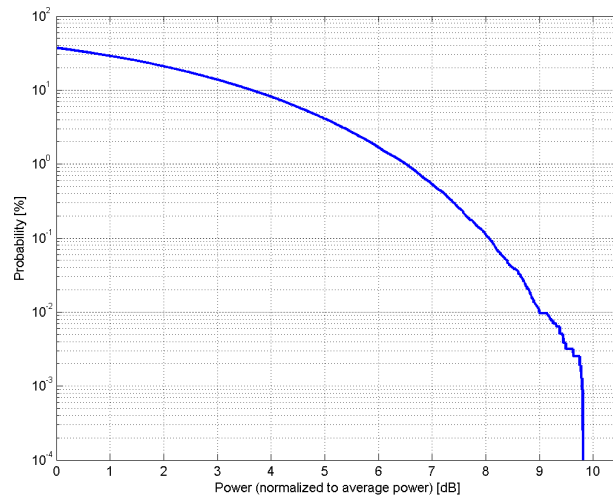
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 15 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 0
Guard Interval: Short
Payload Length: 3567

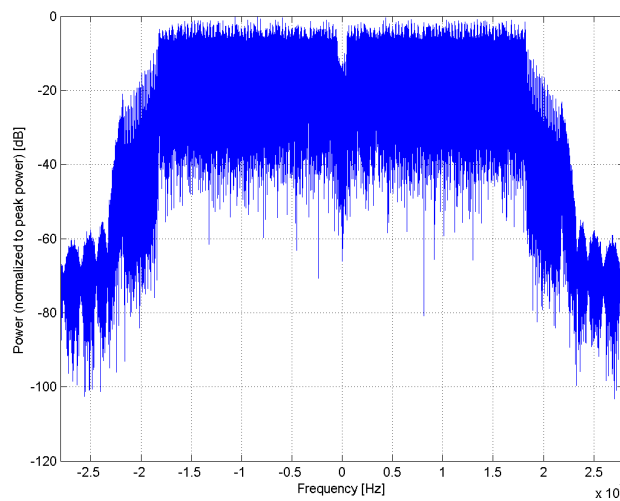
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

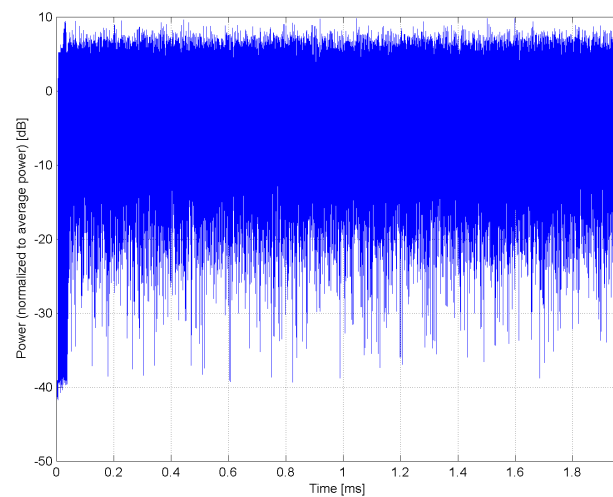
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)**

Group: WLAN
UID: 10223-CAE

PAR: ¹ **8.48 dB**
MIF: ² **-17.20 dB**

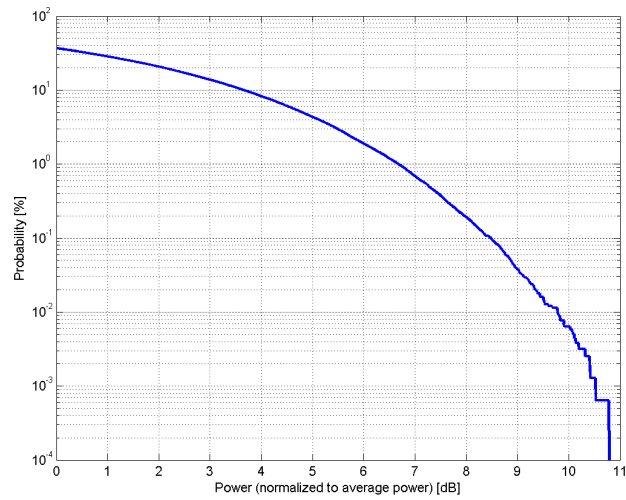
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 90 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 4
Guard Interval: Short
Payload Length: 21590

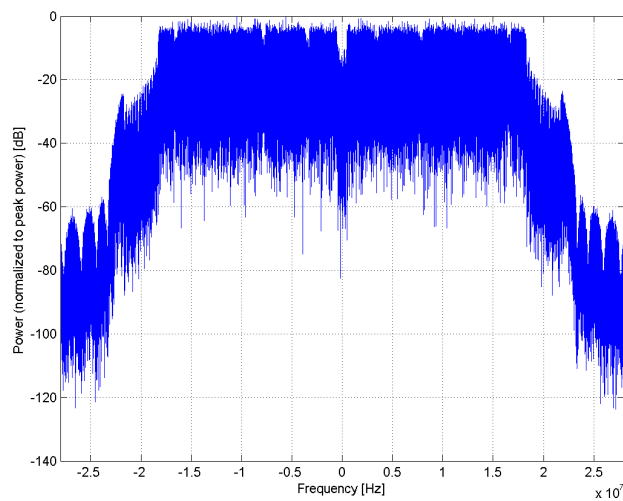
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

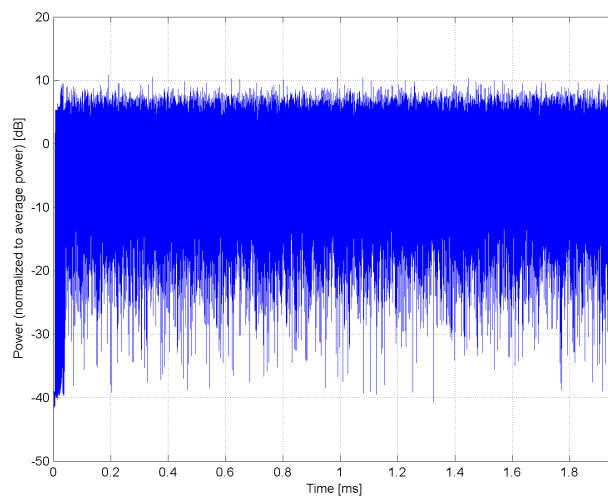
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)**

Group: WLAN
UID: 10224-CAE

PAR: ¹ **8.08 dB**
MIF: ² **-17.01 dB**

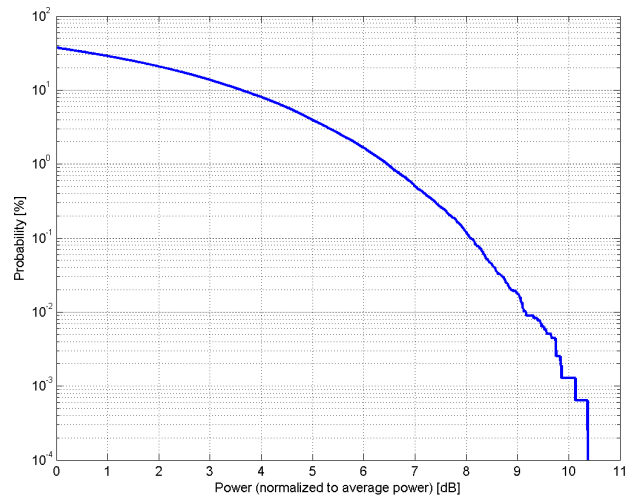
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 150 Mbps
PPDU Format: HT Mixed
PPDU Type: 40 MHz
MCS Index: 7
Guard Interval: Short
Payload Length: 36008

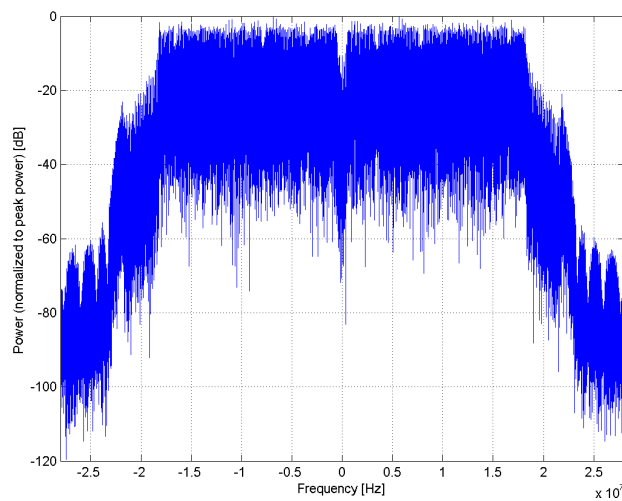
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

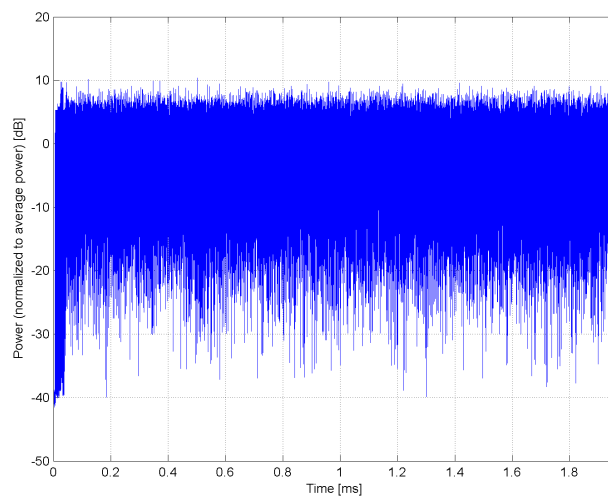
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



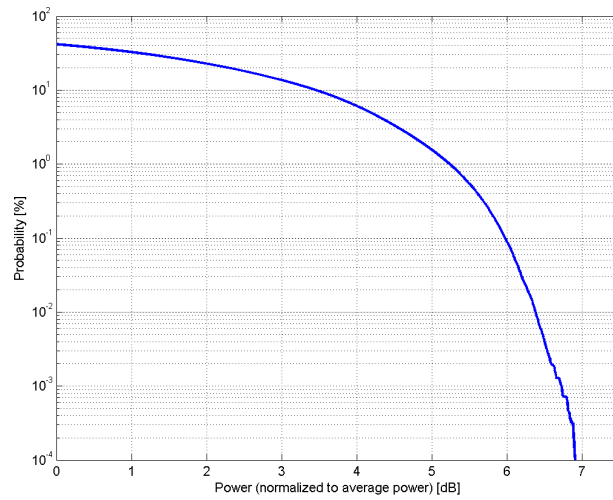
Time Domain

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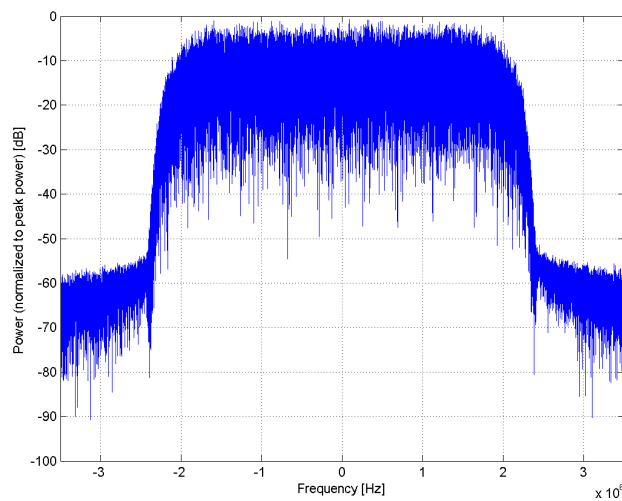
| | |
|-------------------------|---|
| Name: | UMTS-FDD (HSPA+) |
| Group: | WCDMA |
| UID: | 10225-CAC |
| PAR: ¹ | 5.97 dB |
| MIF: ² | -20.39 dB |
| Standard Reference: | 3GPP Rel 7 TS 34.121 FCC OET KDB 941225 D01 SAR test for 3G devices v02 FCC OET KDB 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16QAM |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 6 (830.0 - 840.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 11 (1427.9 - 1452.9 MHz) Band 12 (698.0 - 716.0 MHz) Band 13 (777.0 - 787.0 MHz) Band 14 (788.0 - 798.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | 12.2 kbps RMC, FRC H-Set 2 CQI value: 2 Sub-test 2 Conditions: DPCCH gain factor (Beta.c) = 6/15 DPDCH gain factor (Beta.d): 15/15 E-DPDCH Settings: Symbol Rate: 2x1960 Mbps Modulation 4PAM Data Type: PN9 |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

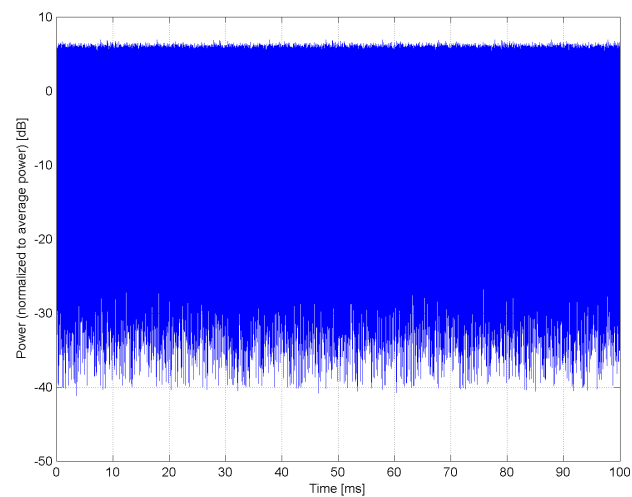
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10226-CAC

PAR: ¹ **9.49 dB**
MIF: ² **-1.44 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

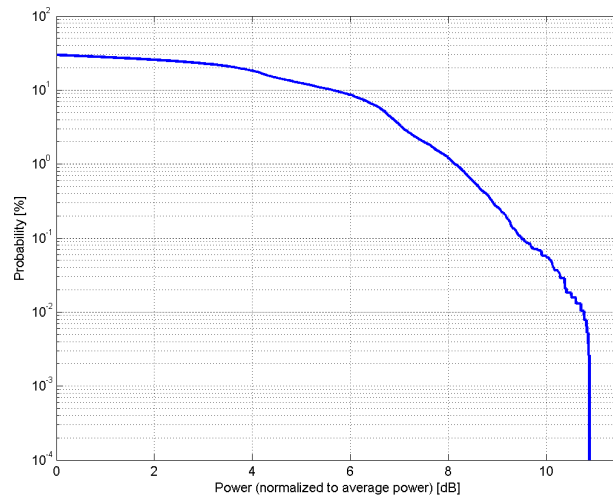
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

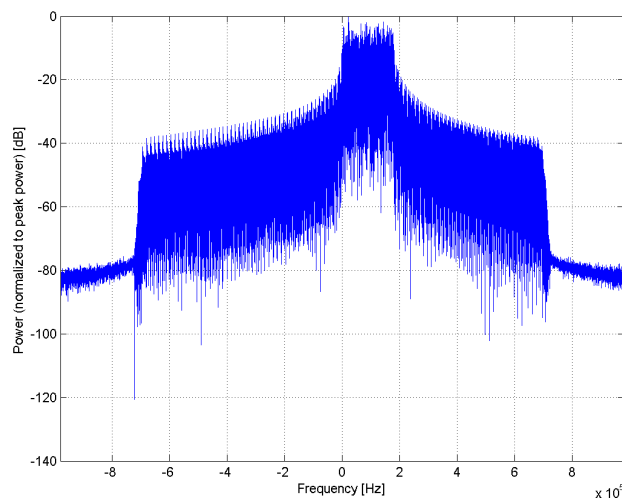
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

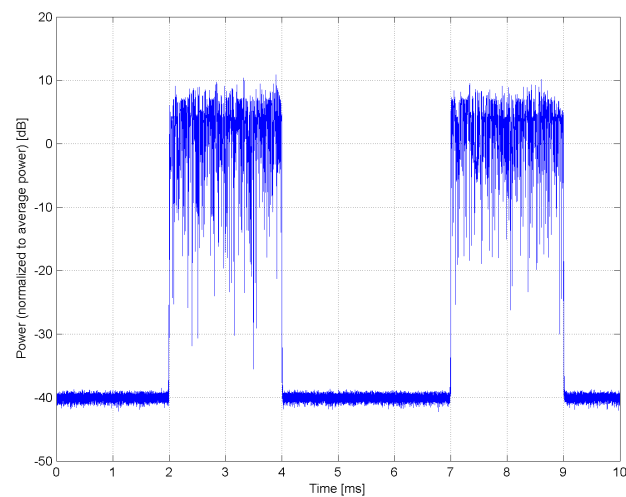
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10227-CAC

PAR: ¹ **10.26 dB**
MIF: ² **-1.54 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

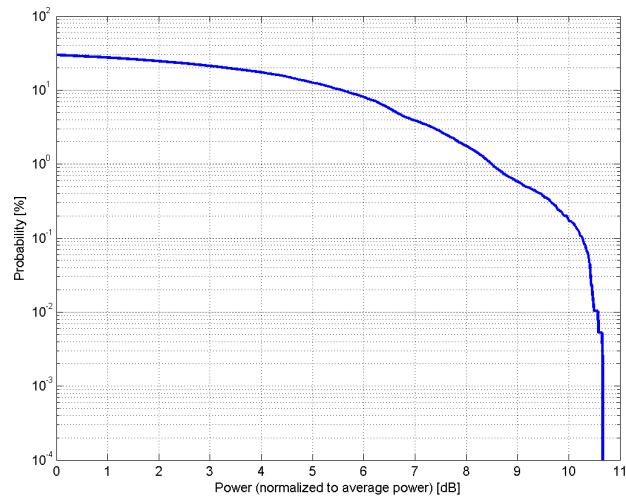
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

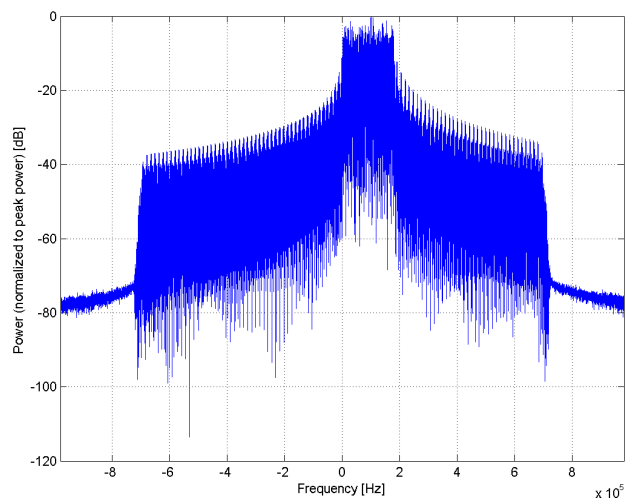
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

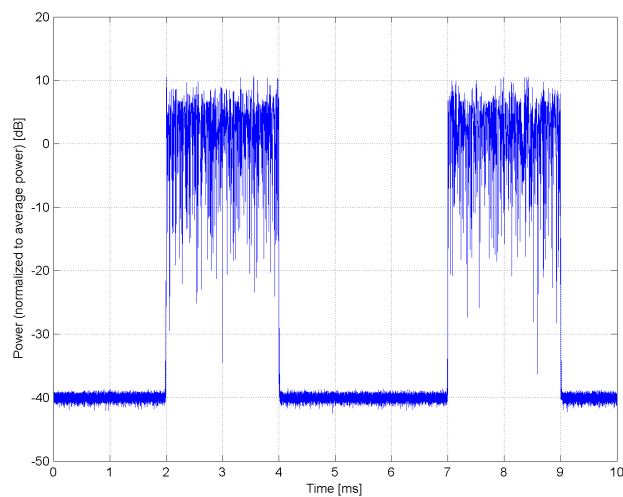
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)**

Group: LTE-TDD
UID: 10228-CAC

PAR: ¹ **9.22 dB**
MIF: ² **-1.62 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

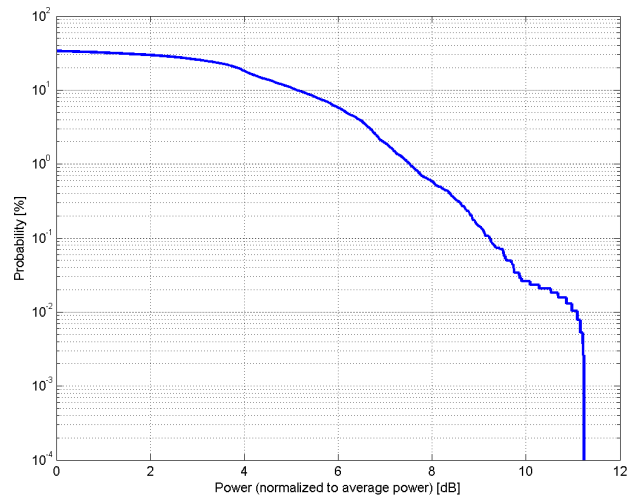
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

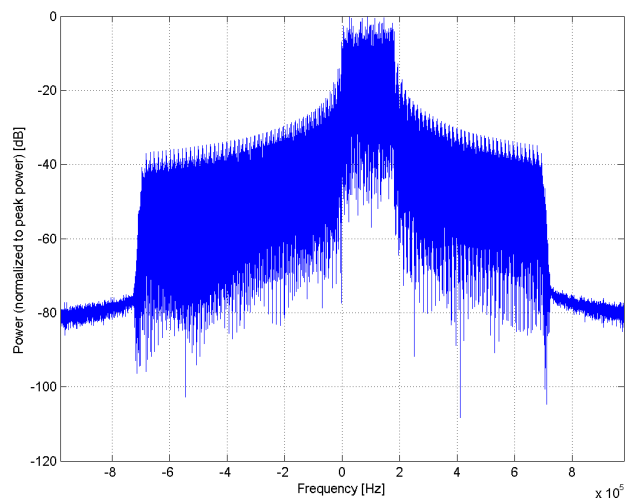
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

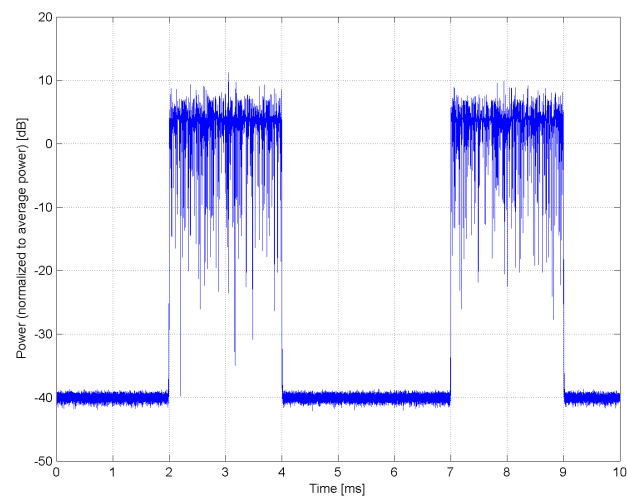
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10229-CAE

PAR: ¹ **9.48 dB**
MIF: ² **-1.44 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

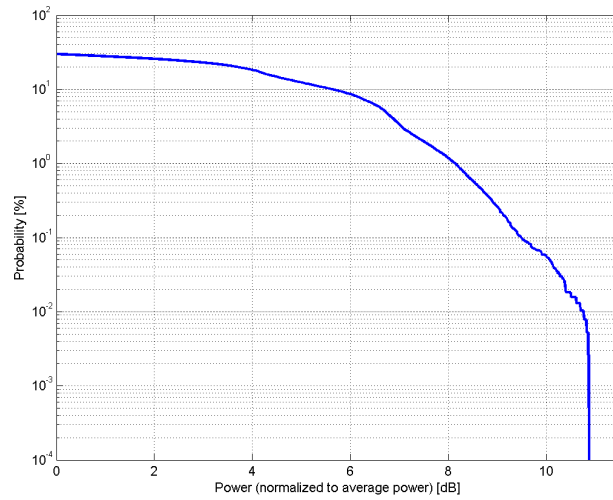
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

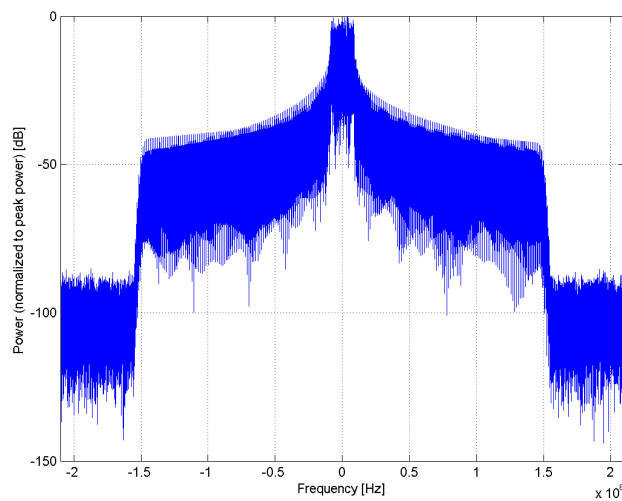
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

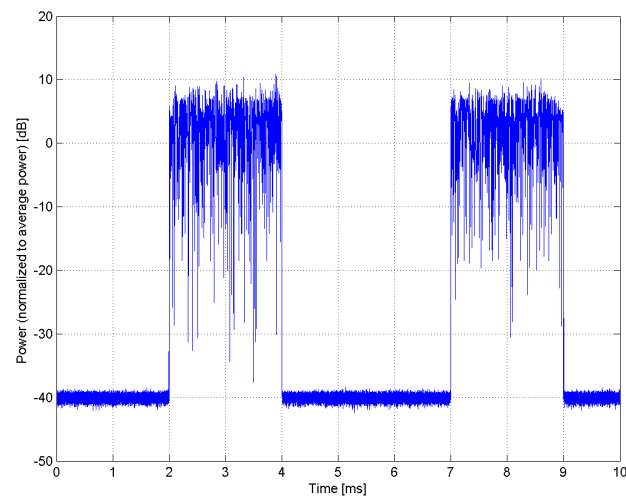
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10230-CAE

PAR: ¹ **10.25 dB**
MIF: ² **-1.54 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

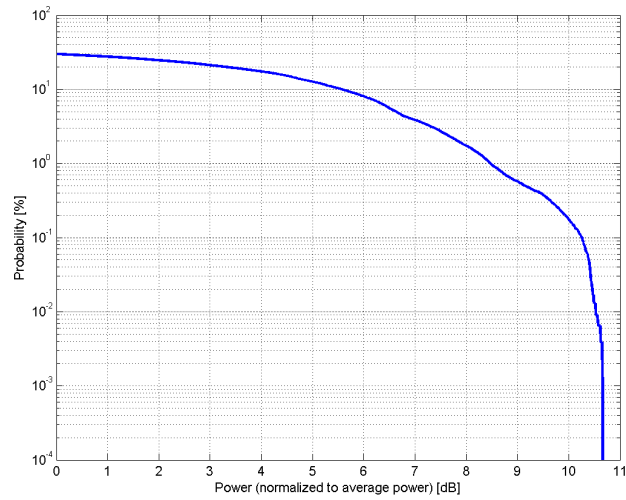
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

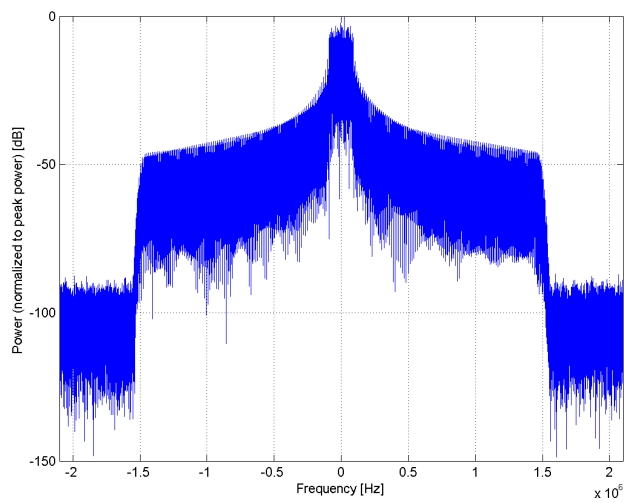
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

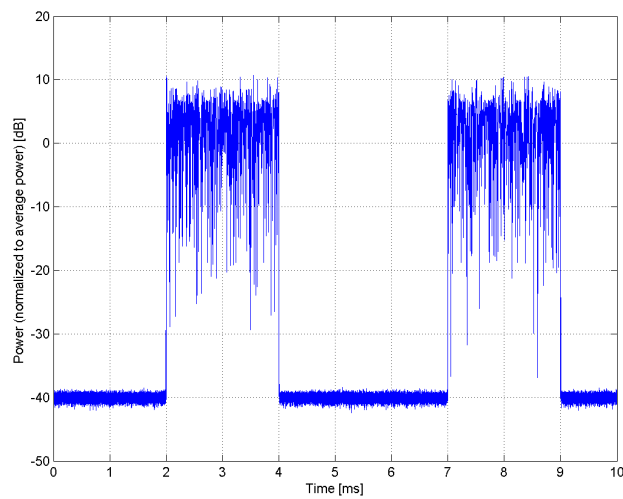
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)**

Group: LTE-TDD
UID: 10231-CAE

PAR: ¹ **9.19 dB**
MIF: ² **-1.62 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

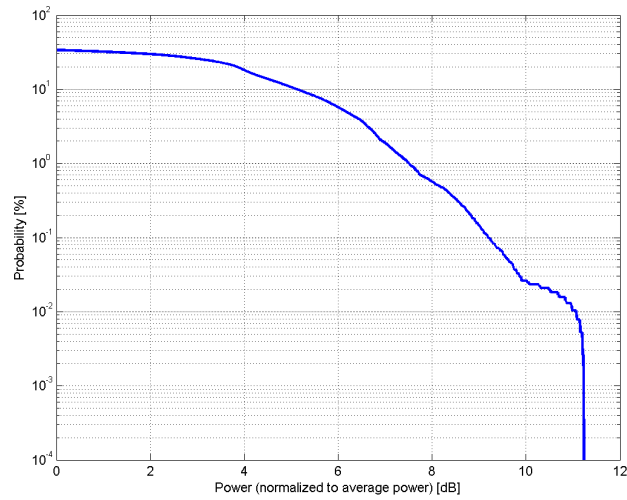
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

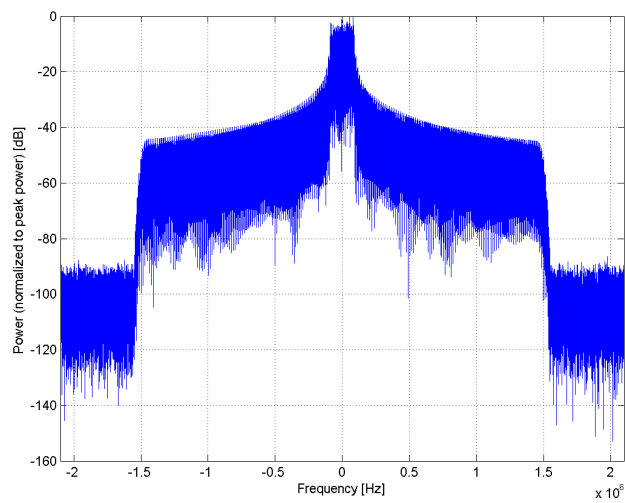
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

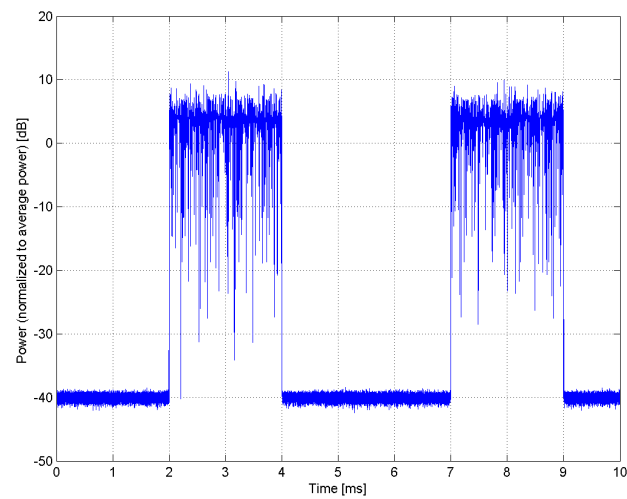
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



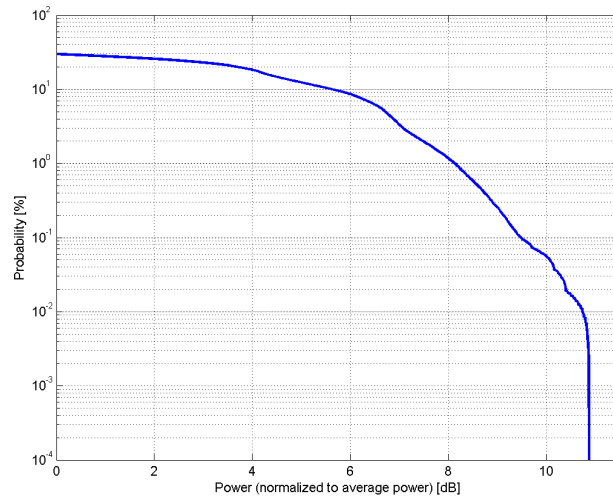
Time Domain

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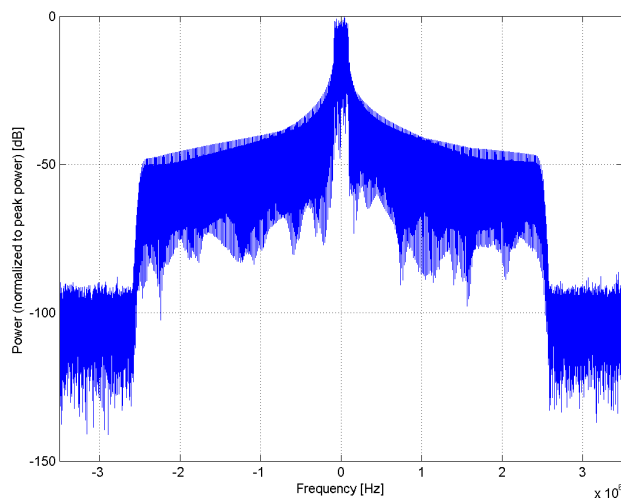
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) |
| Group: | LTE-TDD |
| UID: | 10232-CAH |
| PAR: ¹ | 9.48 dB |
| MIF: ² | -1.44 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 1 Start Number of RB: 12 Data Type: PN9fix |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

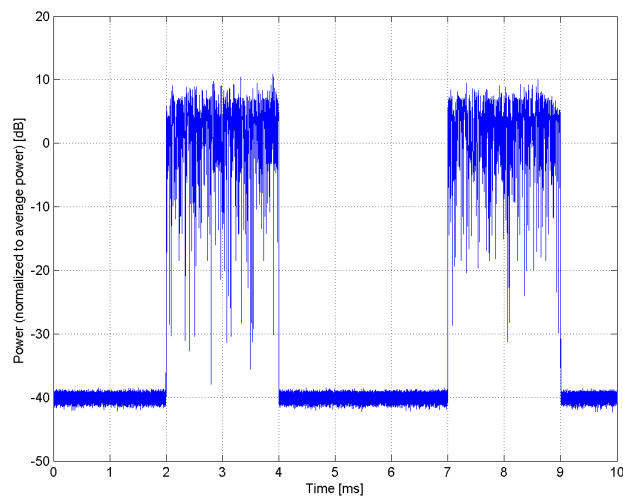
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



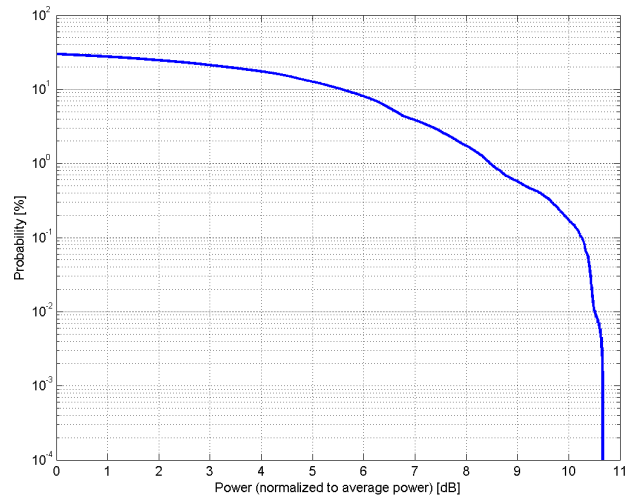
Time Domain

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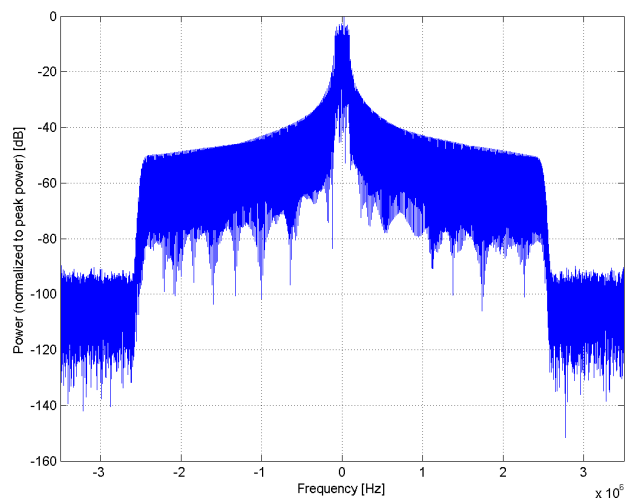
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) |
| Group: | LTE-TDD |
| UID: | 10233-CAH |
| PAR: ¹ | 10.25 dB |
| MIF: ² | -1.54 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 64-QAM Allocated RB: 1 Start Number of RB: 12 Data Type: PN9fix |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

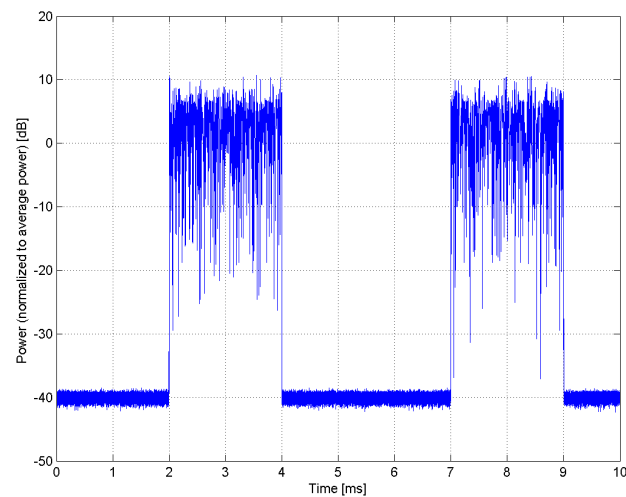
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



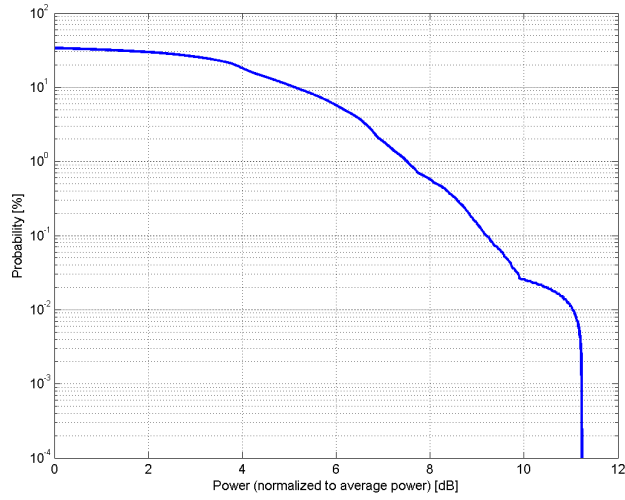
Time Domain

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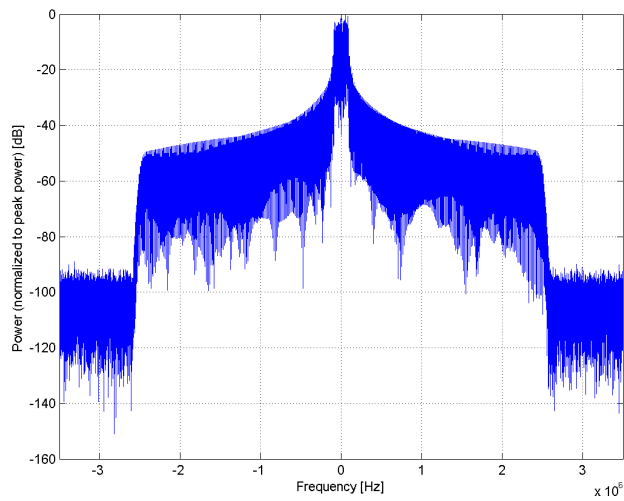
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) |
| Group: | LTE-TDD |
| UID: | 10234-CAH |
| PAR: ¹ | 9.21 dB |
| MIF: ² | -1.62 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 12 Data Type: PN9fix |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

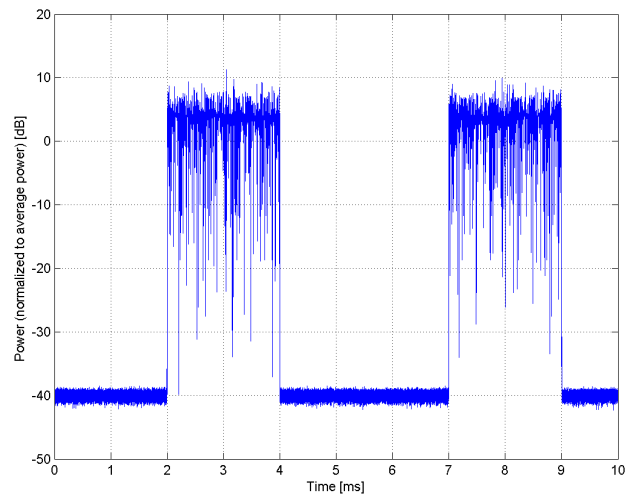
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



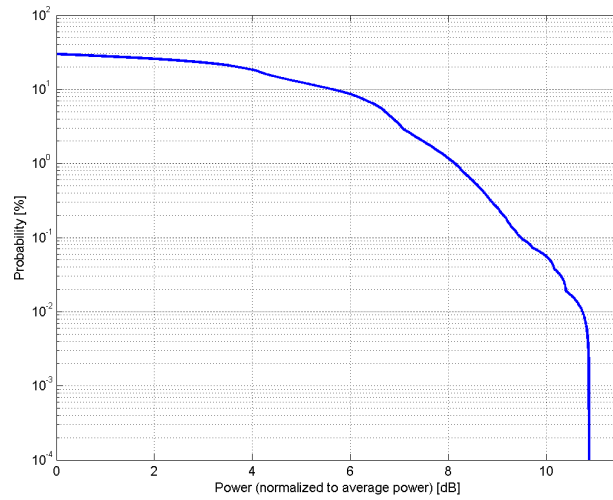
Time Domain

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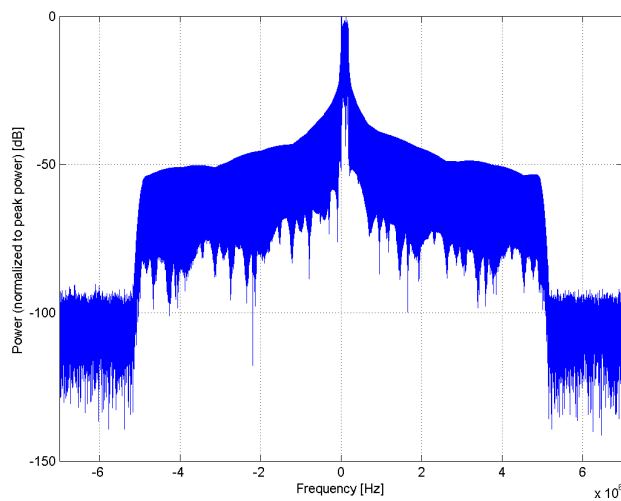
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) |
| Group: | LTE-TDD |
| UID: | 10235-CAH |
| PAR: ¹ | 9.48 dB |
| MIF: ² | -1.44 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 1 Start Number of RB: 25 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

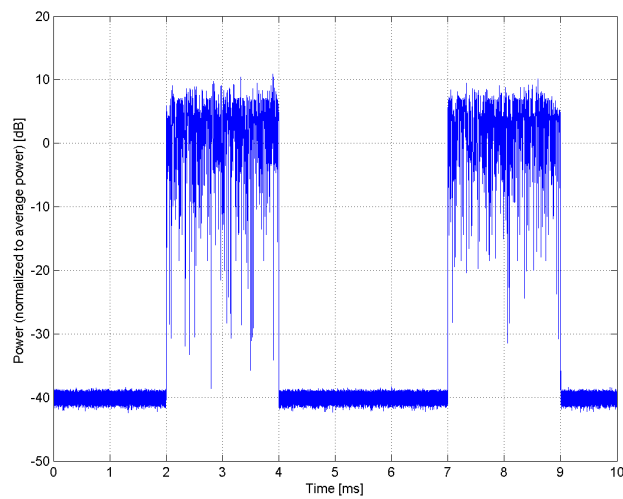
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10236-CAH

PAR: ¹ **10.25 dB**
MIF: ² **-1.54 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

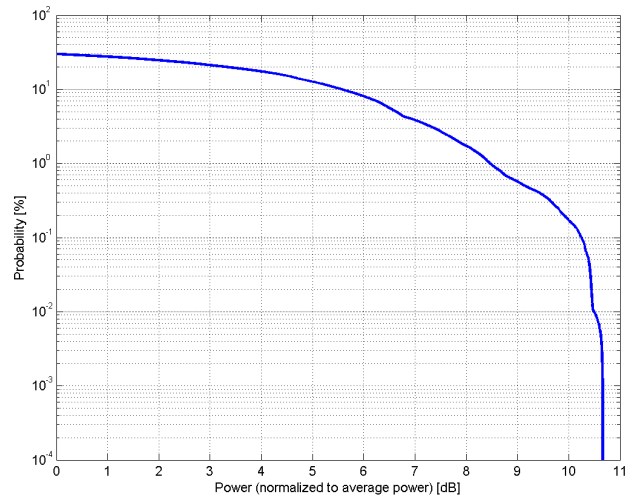
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 1
Start Number of RB: 25
Data Type: PN9fix

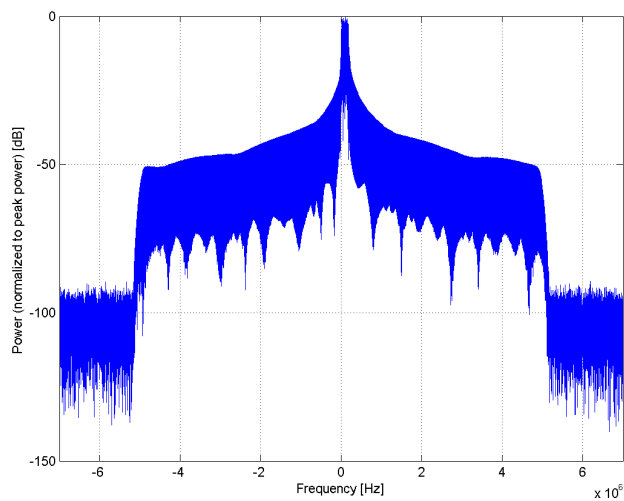
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

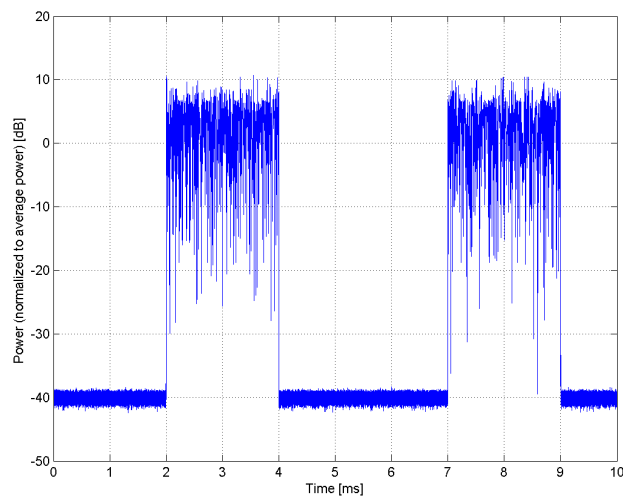
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



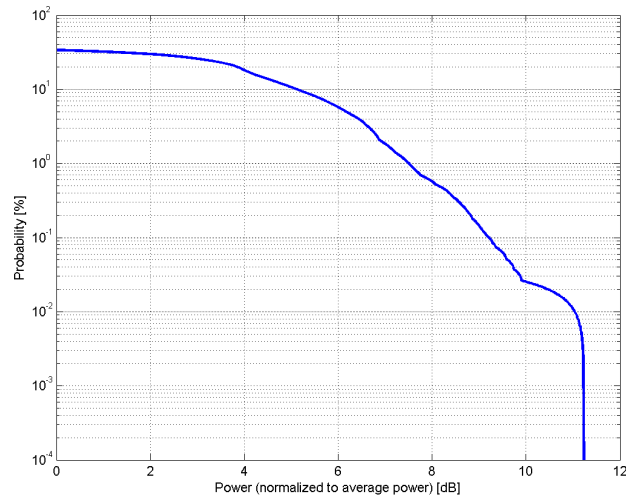
Time Domain

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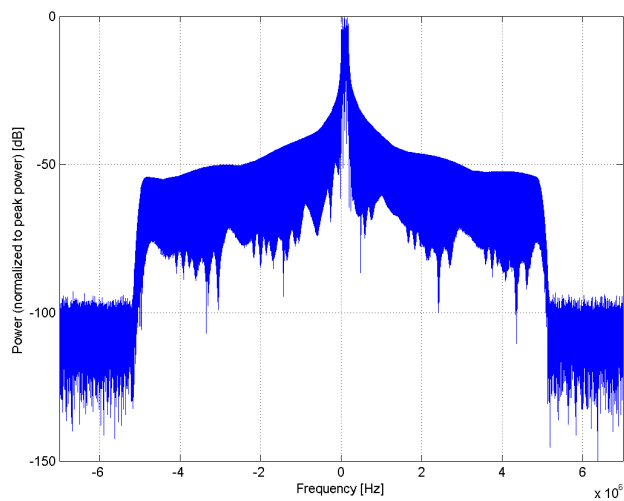
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) |
| Group: | LTE-TDD |
| UID: | 10237-CAH |
| PAR: ¹ | 9.21 dB |
| MIF: ² | -1.62 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 25 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

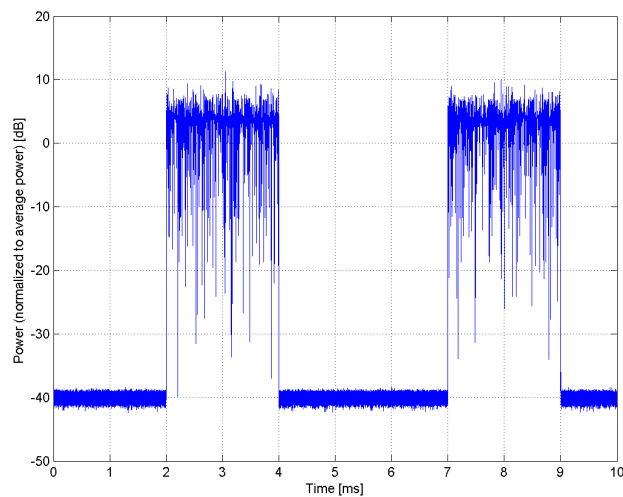
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10238-CAG

PAR: ¹ **9.48 dB**
MIF: ² **-1.44 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

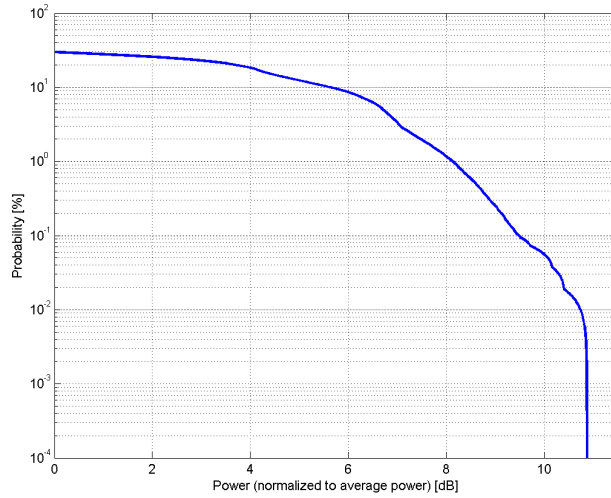
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

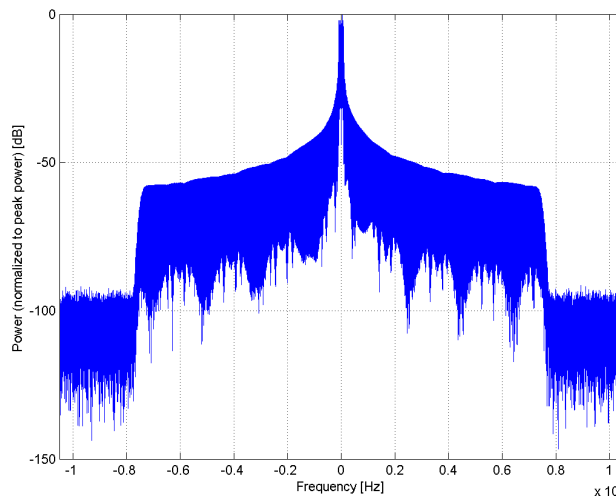
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

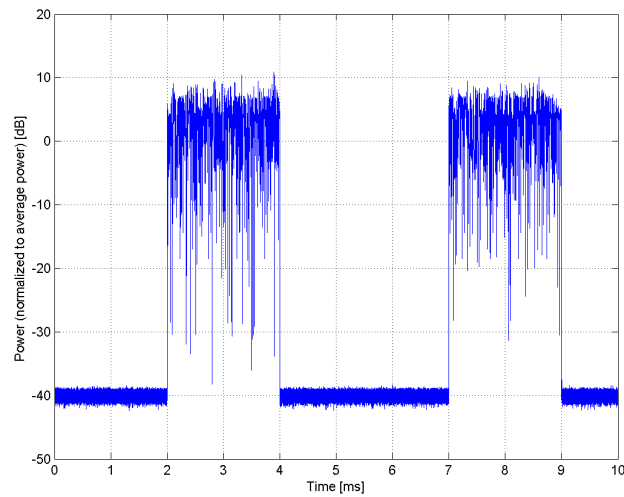
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10239-CAG

PAR: ¹ **10.25 dB**
MIF: ² **-1.54 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

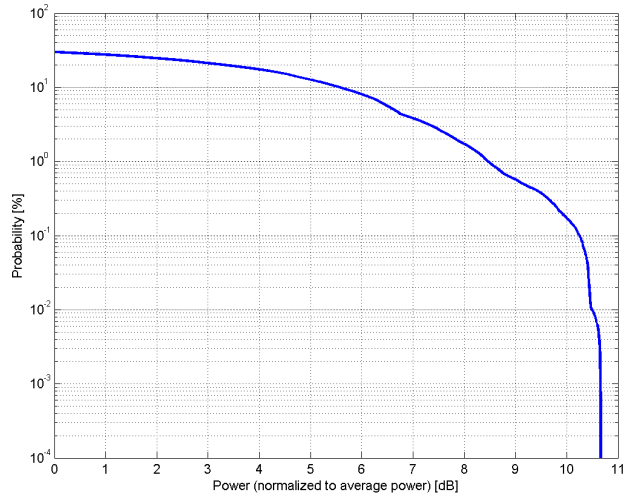
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

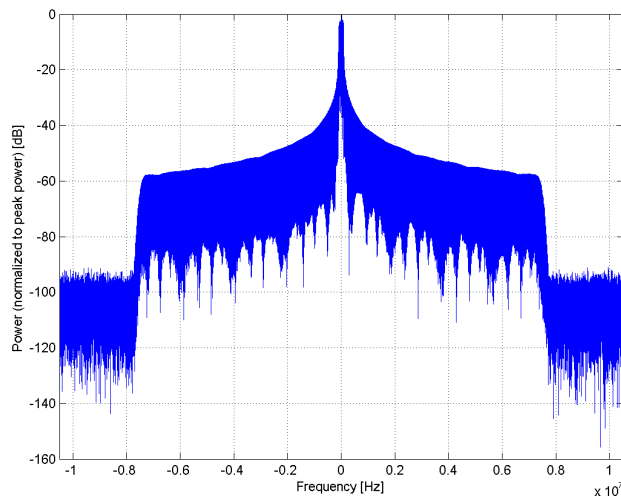
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

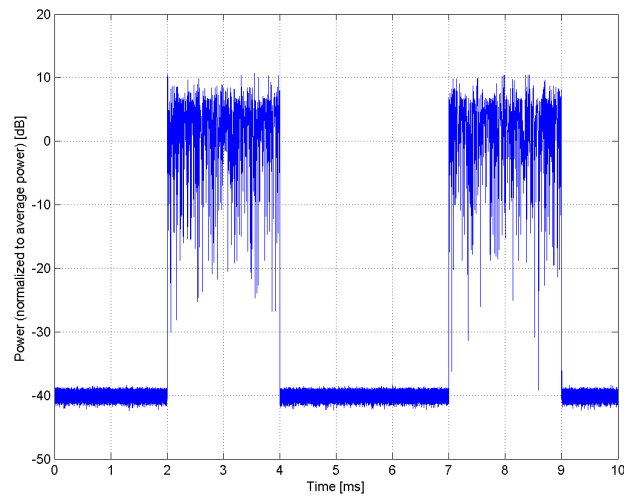
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)**

Group: LTE-TDD
UID: 10240-CAG

PAR: ¹ **9.21 dB**
MIF: ² **-1.62 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

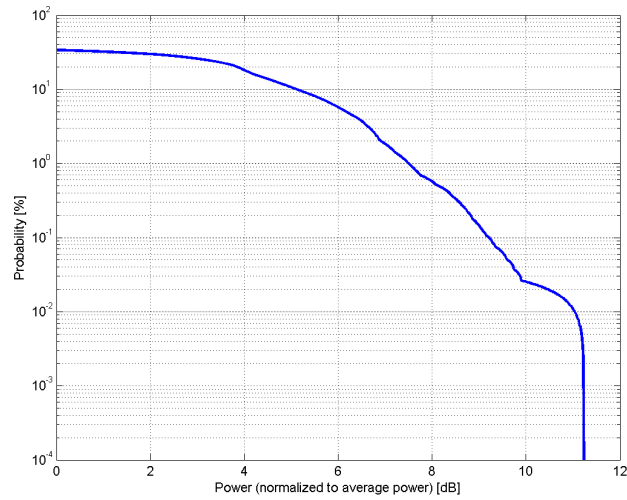
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

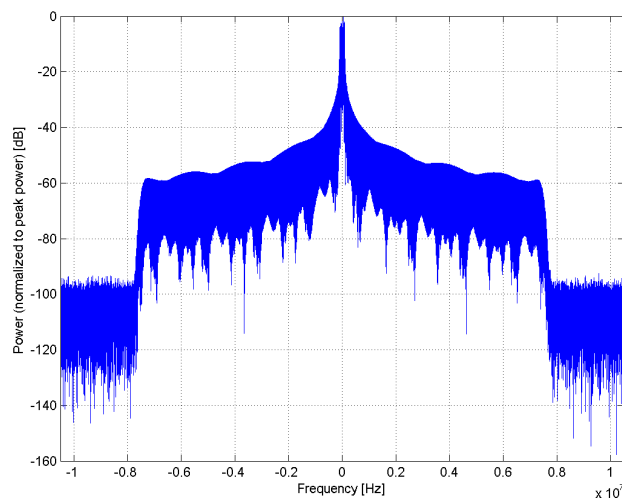
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

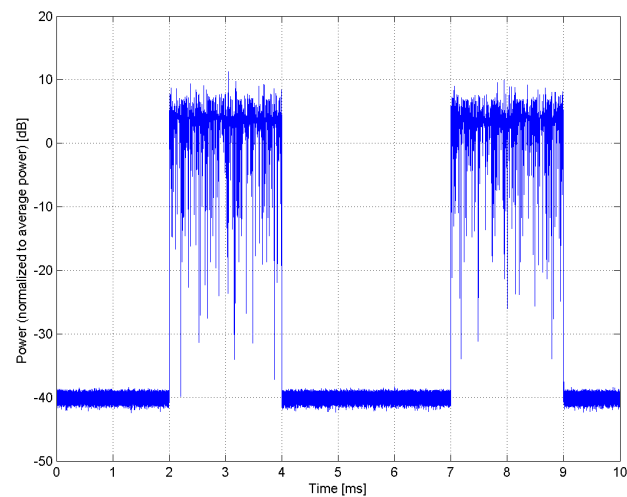
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10241-CAC

PAR: ¹ **9.82 dB**
MIF: ² **-1.58 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

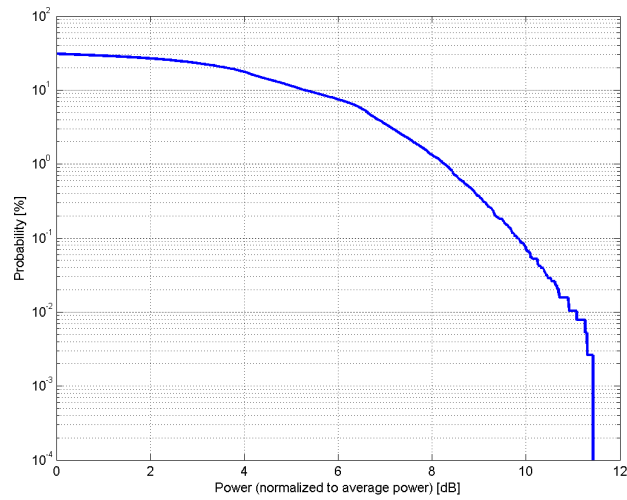
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

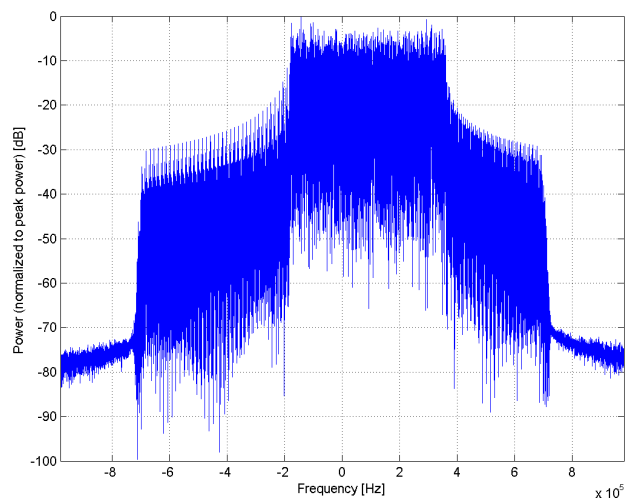
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

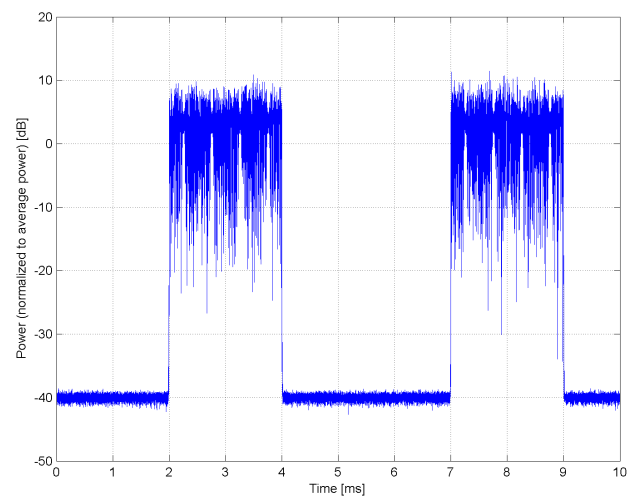
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10242-CAC

PAR: ¹ **9.86 dB**
MIF: ² **-1.57 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

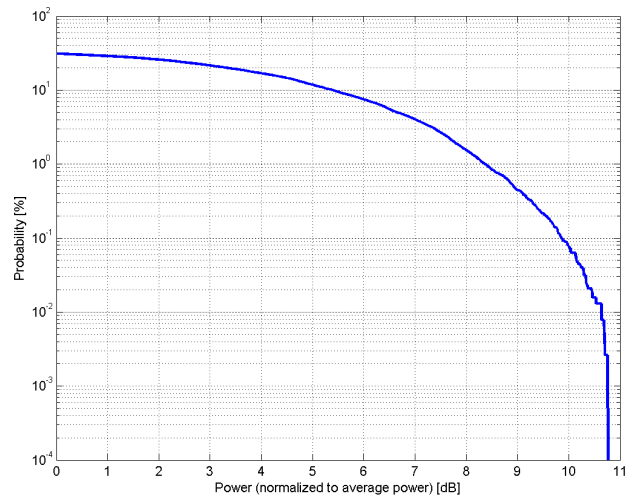
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

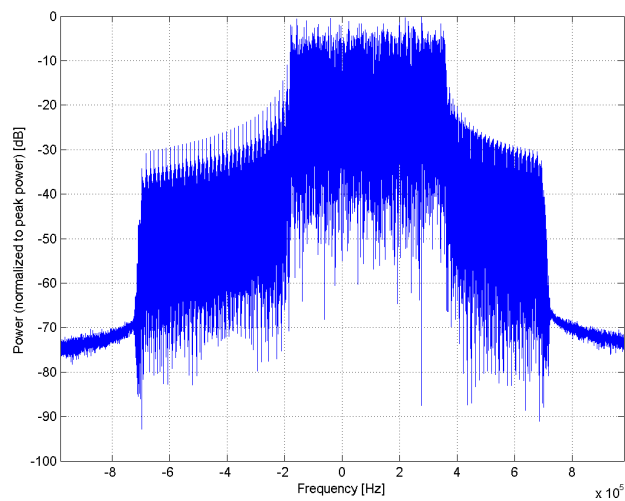
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

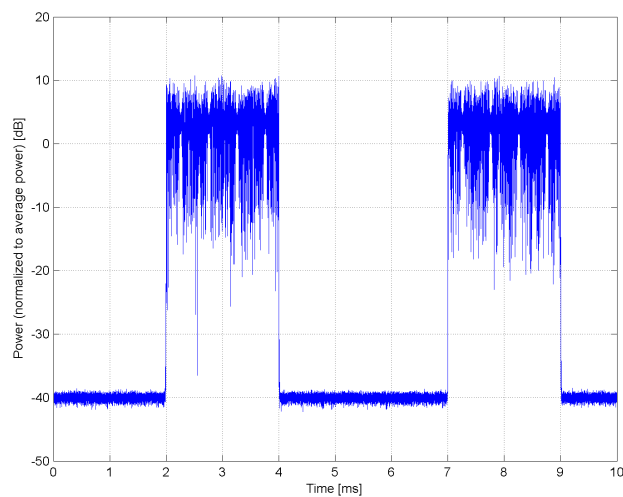
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)**

Group: LTE-TDD
UID: 10243-CAC

PAR: ¹ **9.46 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

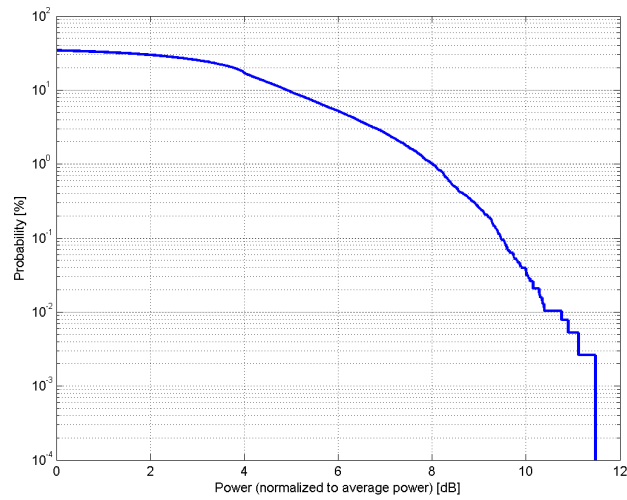
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

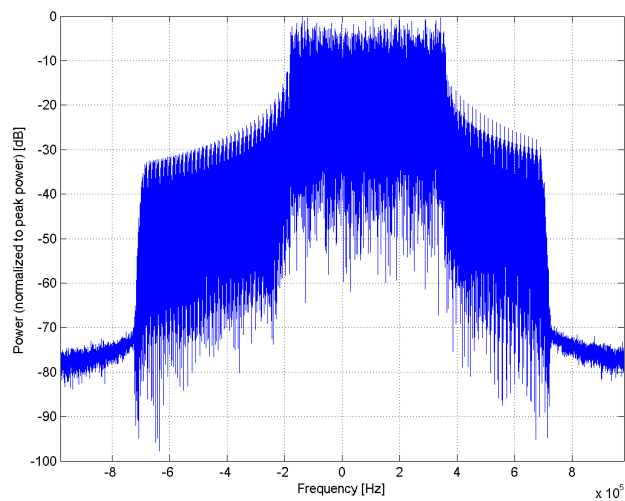
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

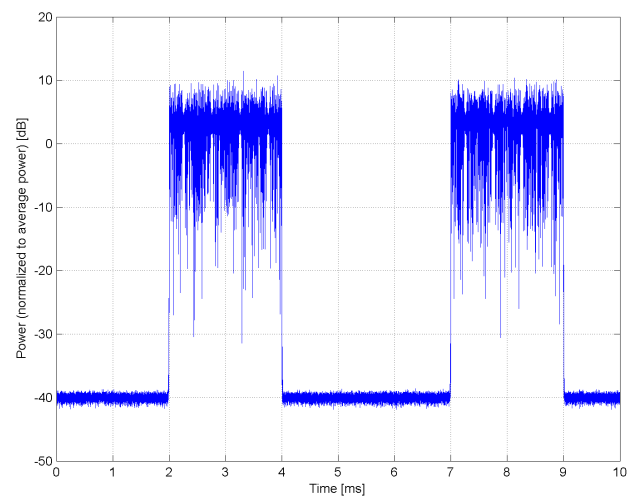
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10244-CAE

PAR: ¹ **10.06 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

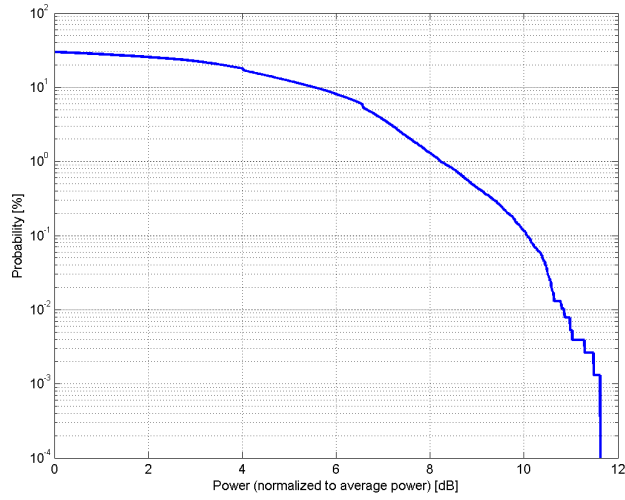
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 8
Start Number of RB: 3
Data Type: PN9fix

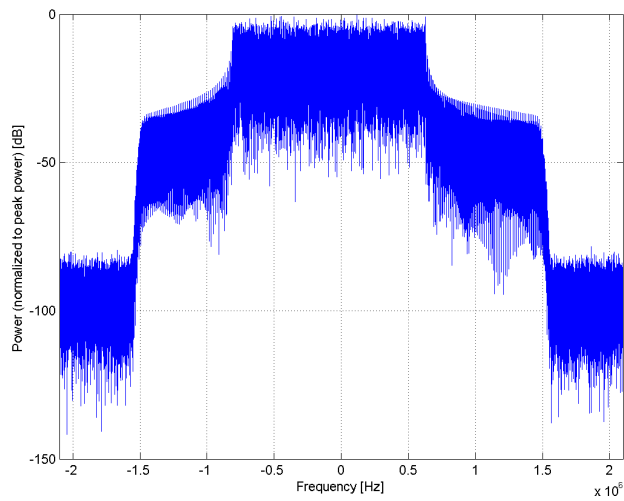
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

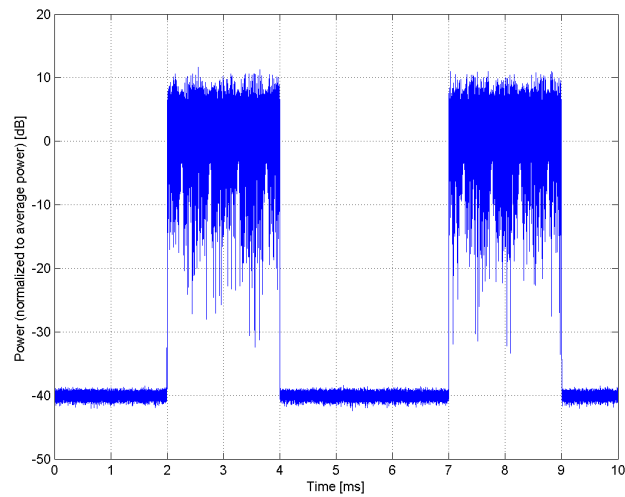
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10245-CAE

PAR: ¹ **10.06 dB**
MIF: ² **-1.68 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

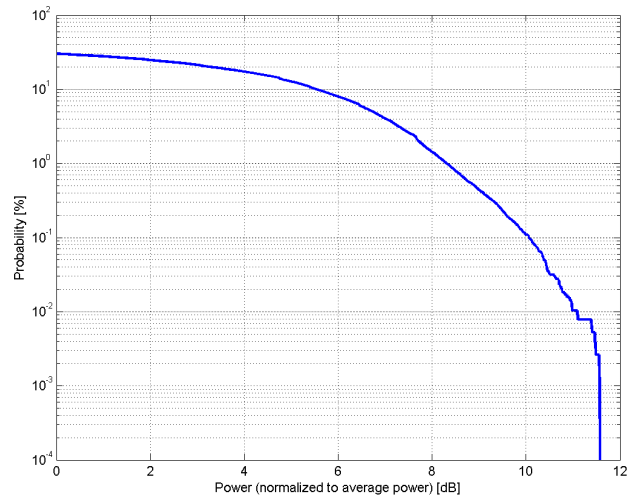
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 8
Start Number of RB: 4
Data Type: PN9fix

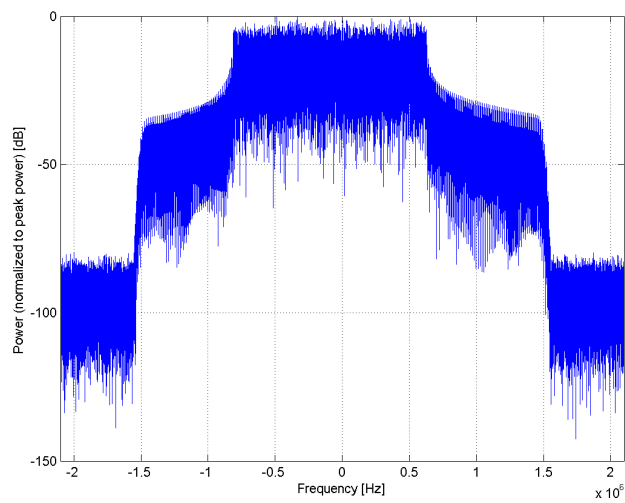
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

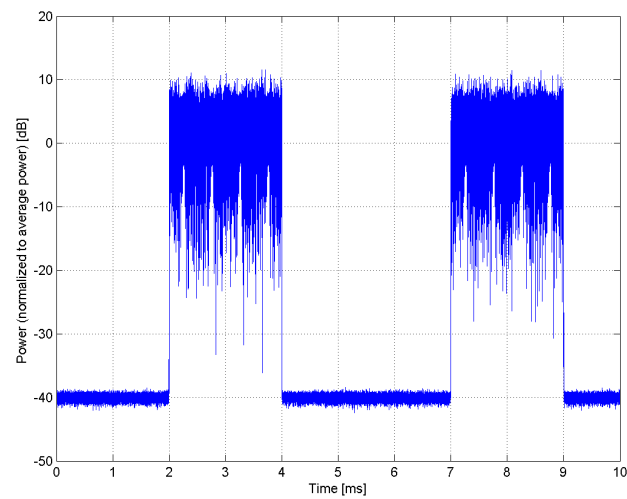
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)**

Group: LTE-TDD
UID: 10246-CAE

PAR: ¹ **9.30 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

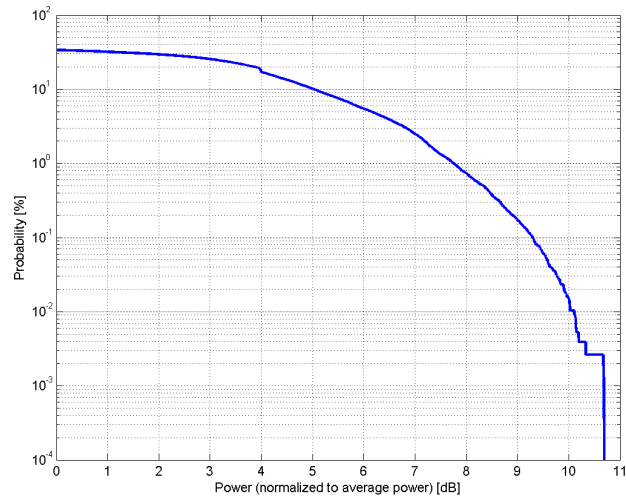
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 8
Start Number of RB: 4
Data Type: PN9fix

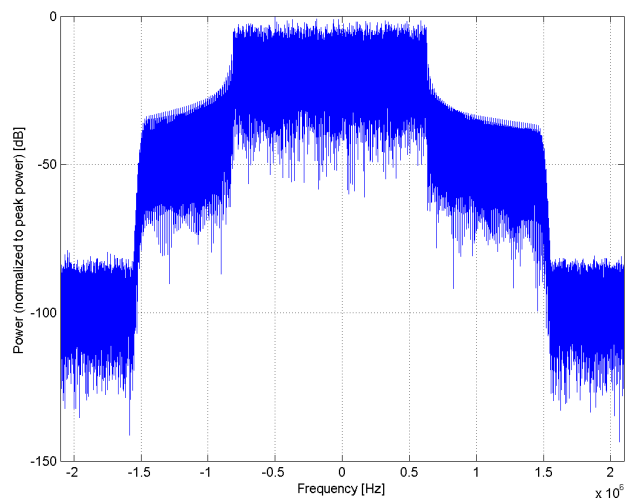
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

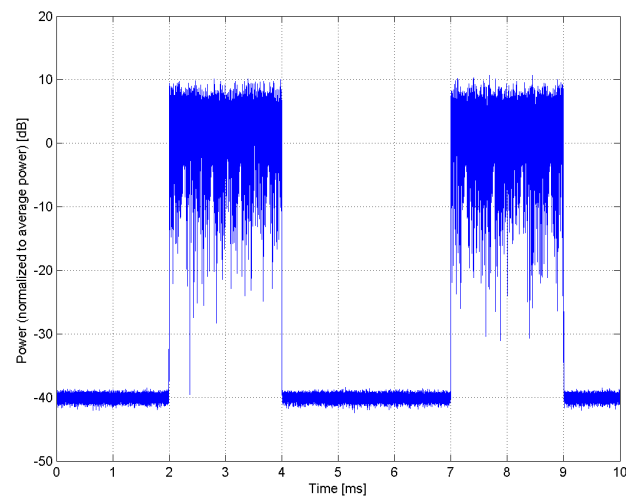
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10247-CAH

PAR: ¹ **9.91 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

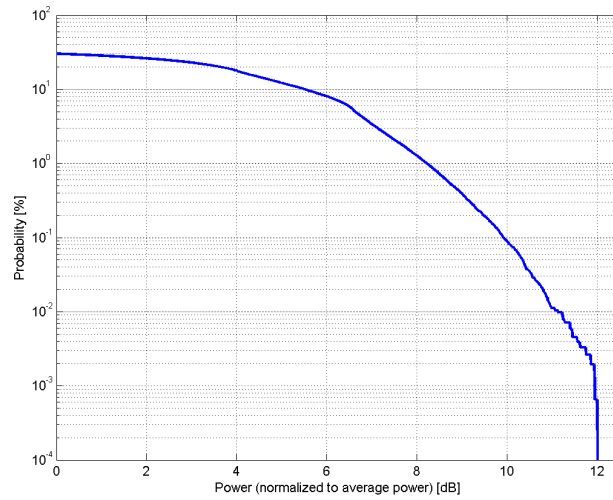
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 12
Start Number of RB: 7
Data Type: PN9fix

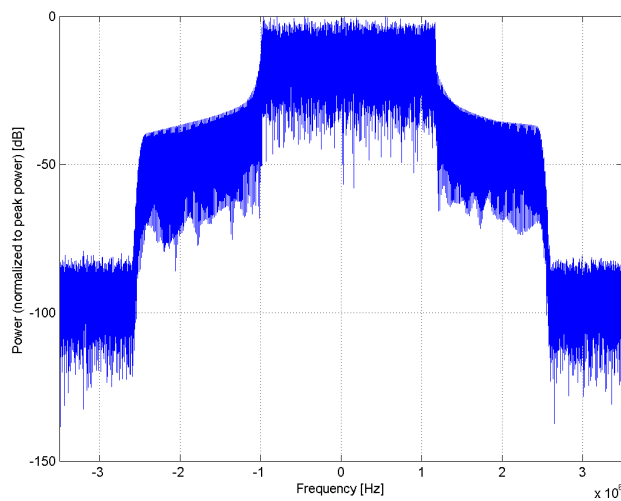
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

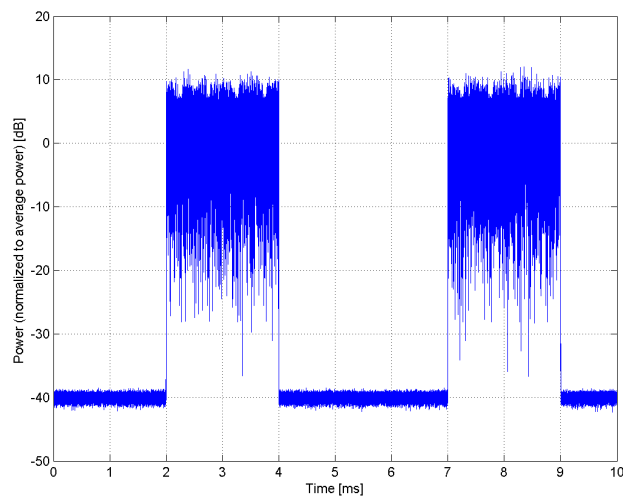
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10248-CAH

PAR: ¹ **10.09 dB**
MIF: ² **-1.66 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

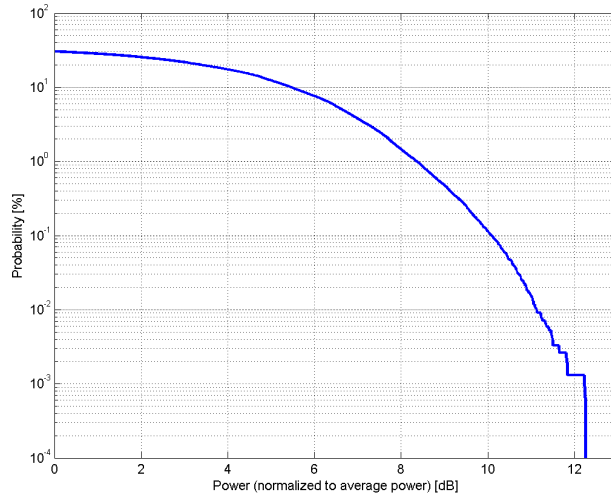
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 12
Start Number of RB: 7
Data Type: PN9fix

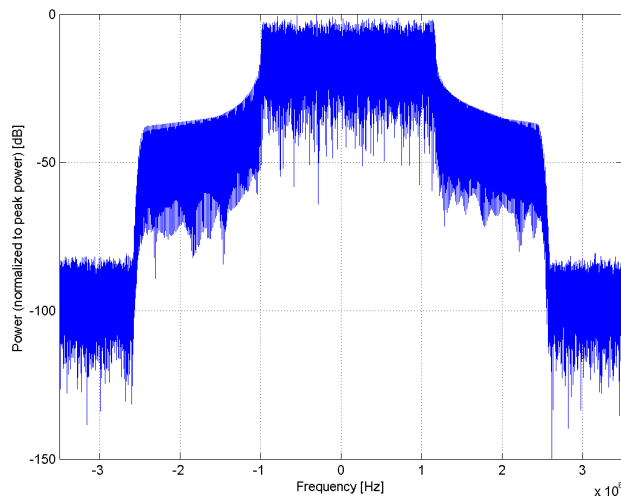
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

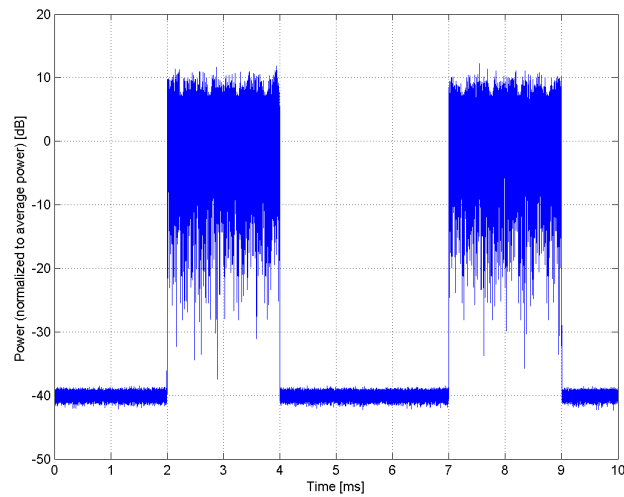
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



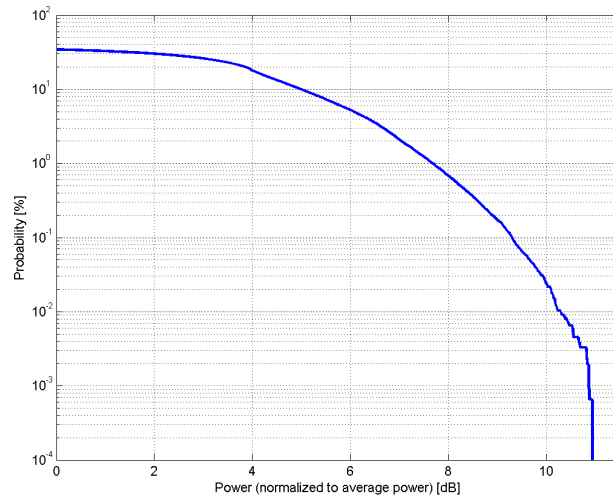
Time Domain

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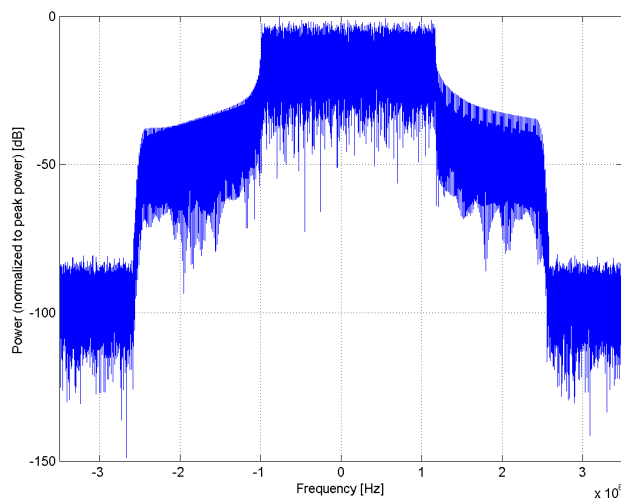
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) |
| Group: | LTE-TDD |
| UID: | 10249-CAH |
| PAR: ¹ | 9.29 dB |
| MIF: ² | -1.64 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 12 Start Number of RB: 7 Data Type: PN9fix |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

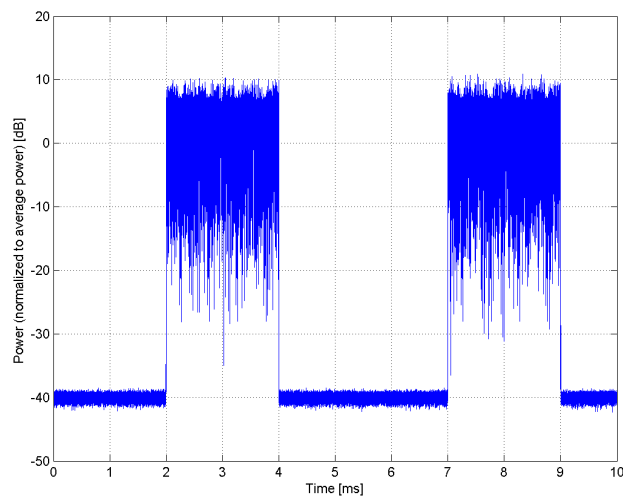
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



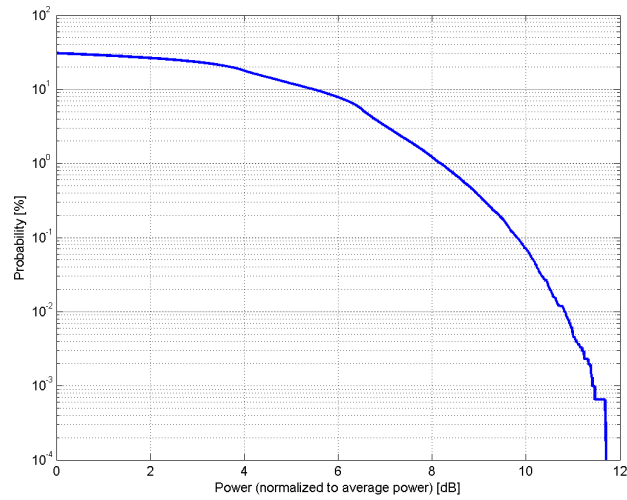
Time Domain

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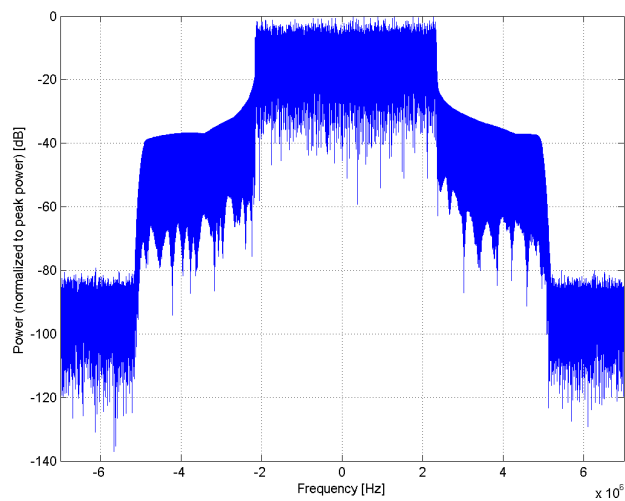
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) |
| Group: | LTE-TDD |
| UID: | 10250-CAH |
| PAR: ¹ | 9.81 dB |
| MIF: ² | -1.65 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

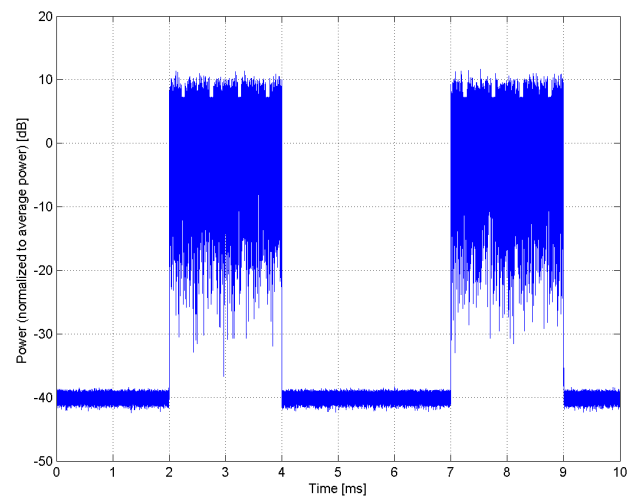
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



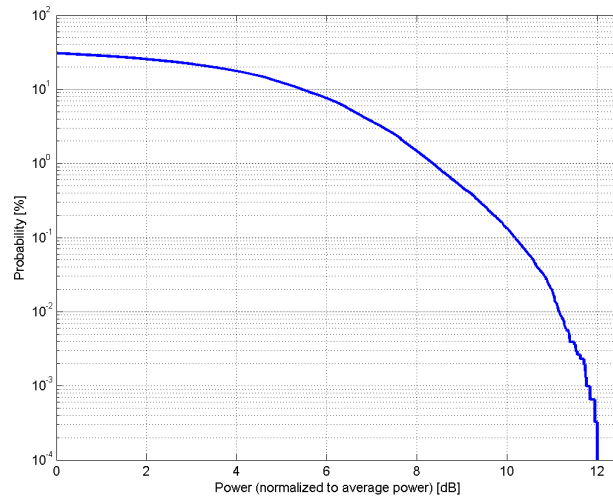
Time Domain

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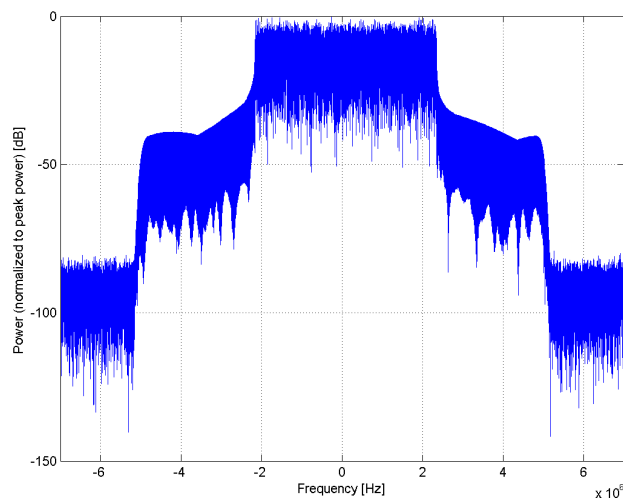
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) |
| Group: | LTE-TDD |
| UID: | 10251-CAH |
| PAR: ¹ | 10.17 dB |
| MIF: ² | -1.67 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 64QAM Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

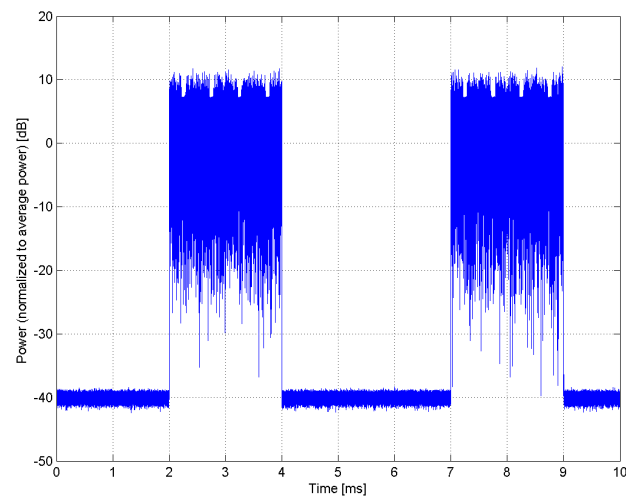
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



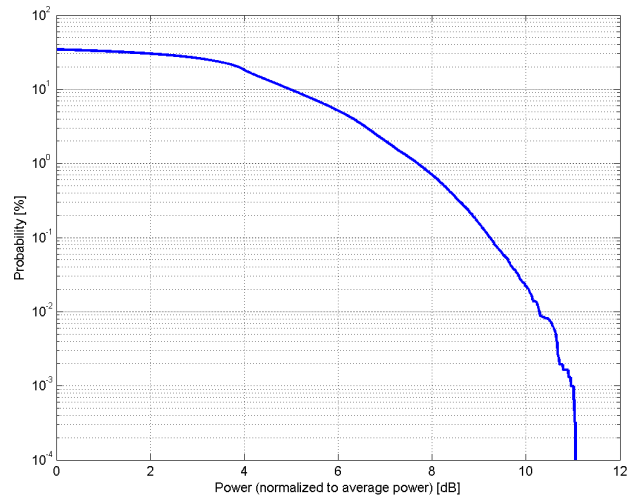
Time Domain

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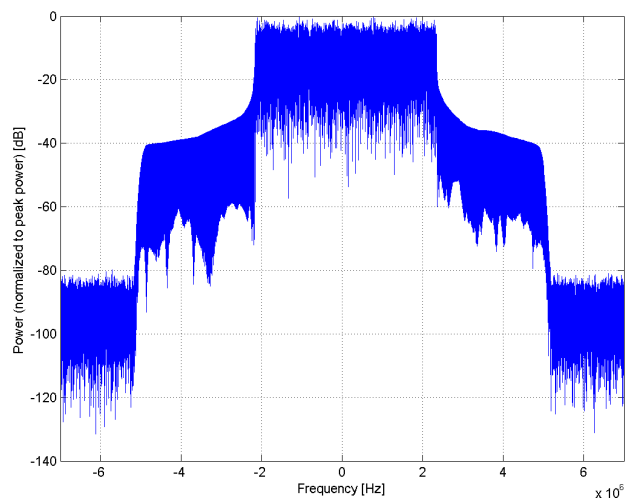
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) |
| Group: | LTE-TDD |
| UID: | 10252-CAH |
| PAR: ¹ | 9.24 dB |
| MIF: ² | -1.64 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

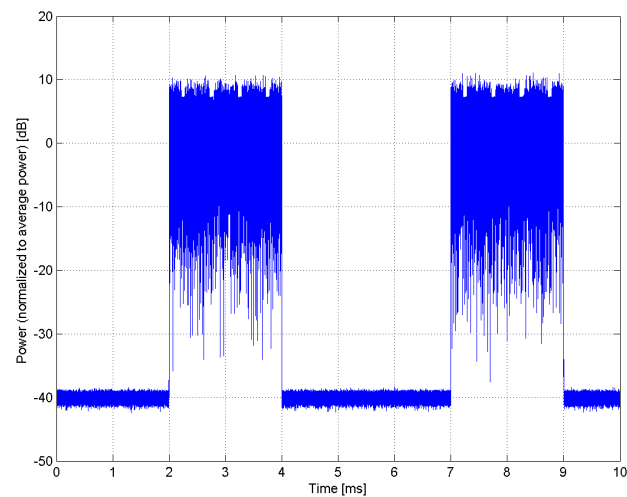
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10253-CAG

PAR: ¹ **9.90 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

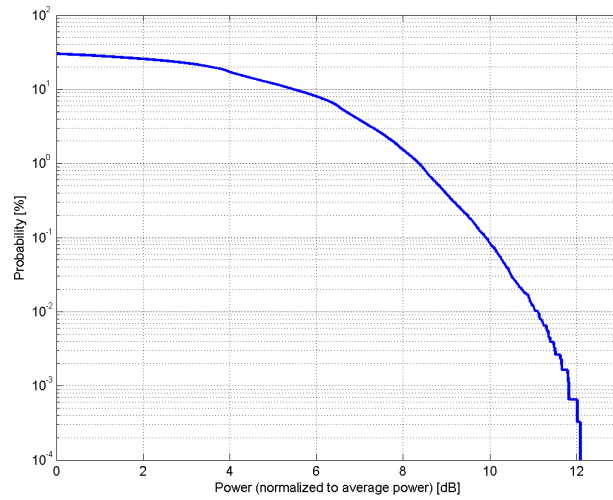
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

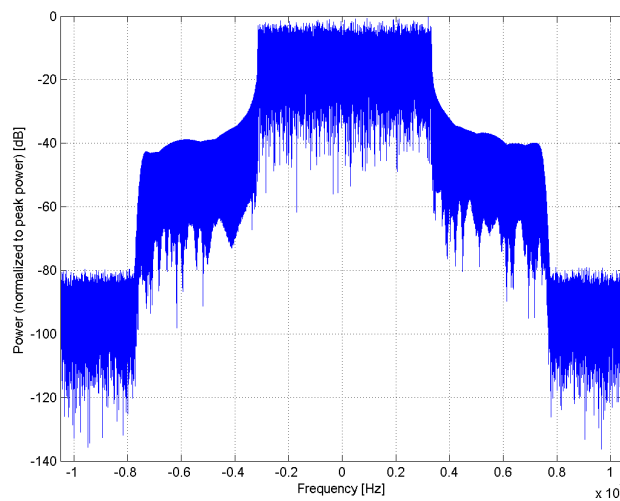
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

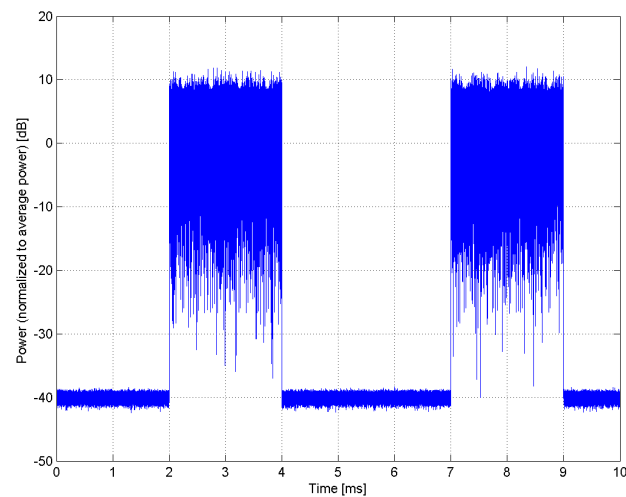
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10254-CAG

PAR: ¹ **10.14 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

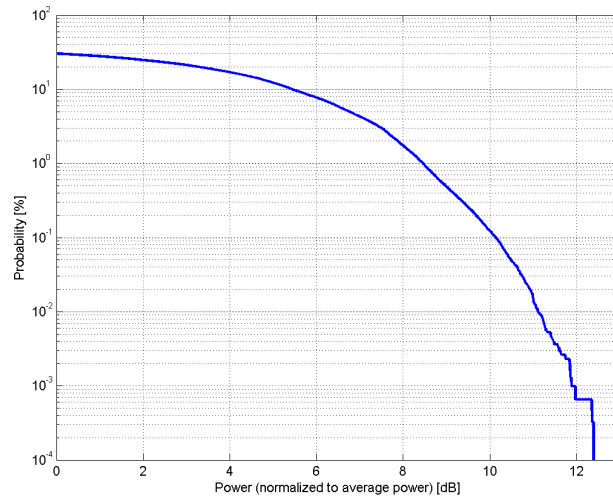
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

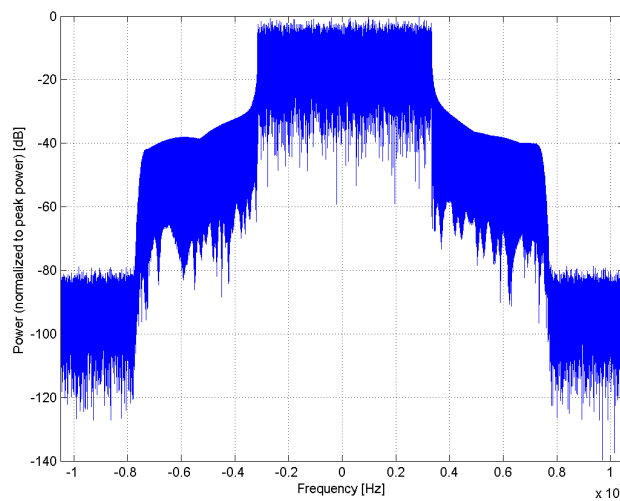
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

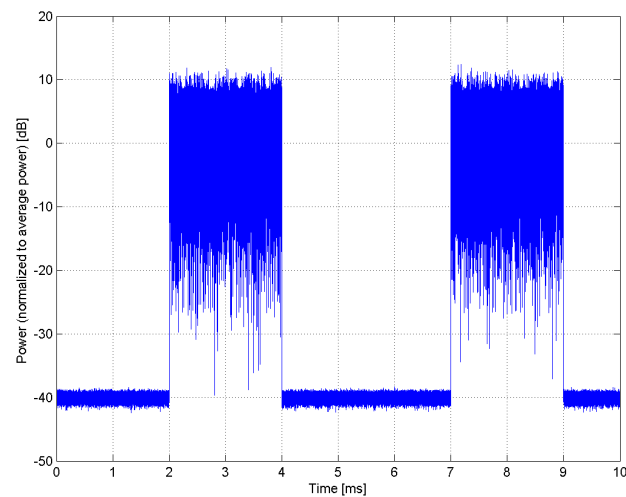
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)**

Group: LTE-TDD
UID: 10255-CAG

PAR: ¹ **9.20 dB**
MIF: ² **-1.64 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

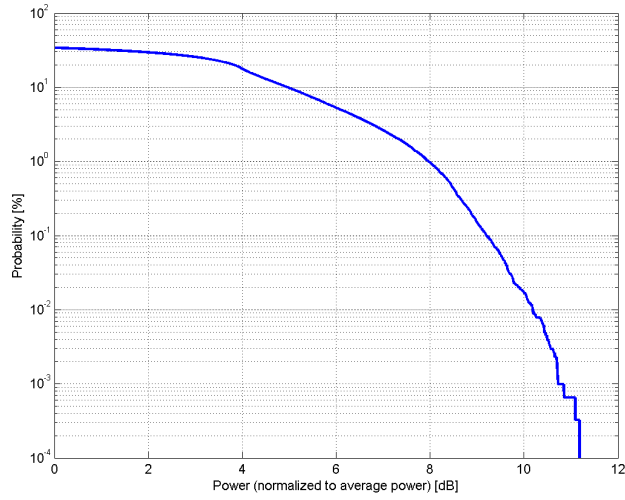
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

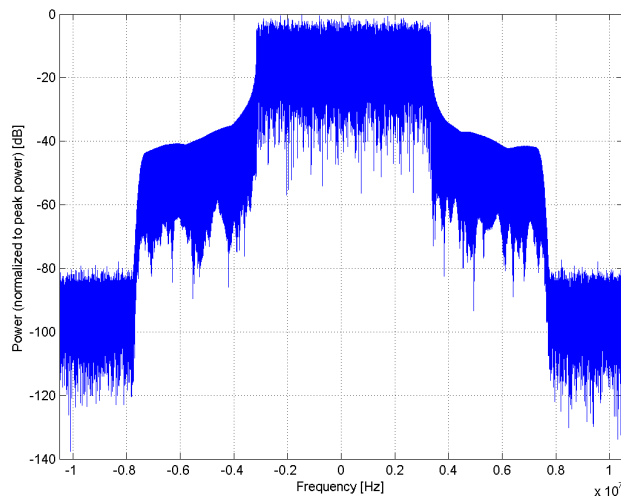
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

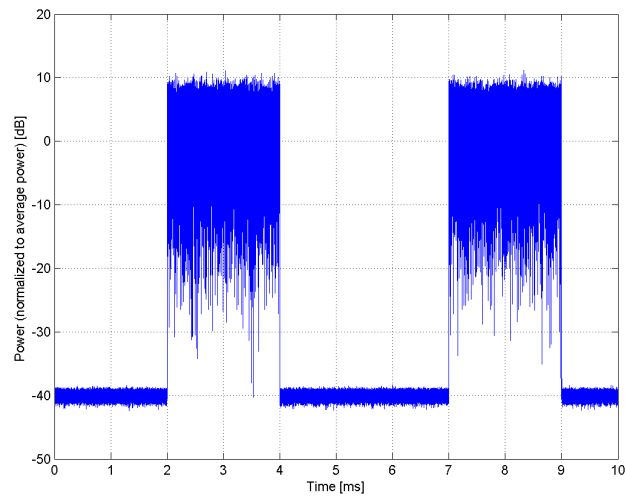
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10256-CAC

PAR: ¹ **9.96 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

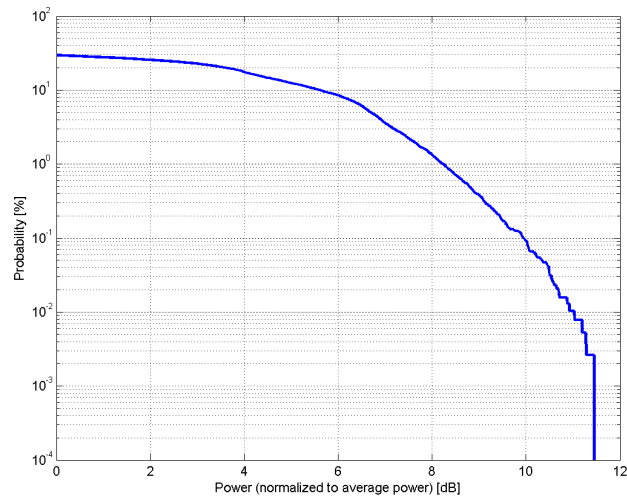
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

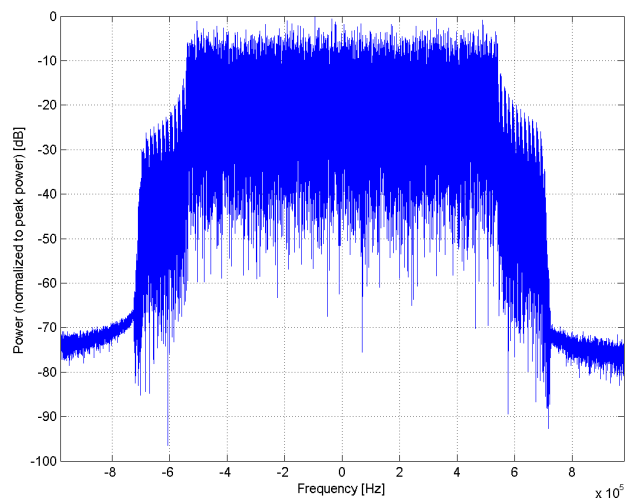
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

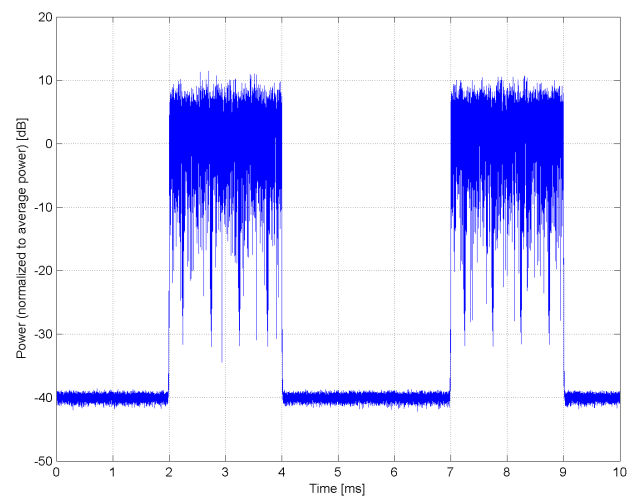
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10257-CAC

PAR: ¹ **10.08 dB**
MIF: ² **-1.64 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

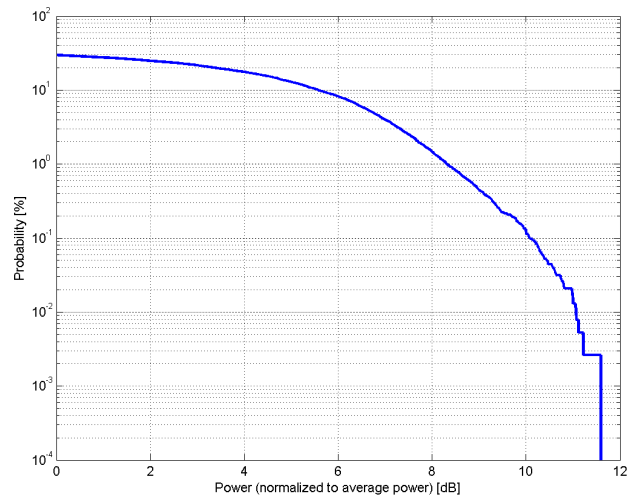
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

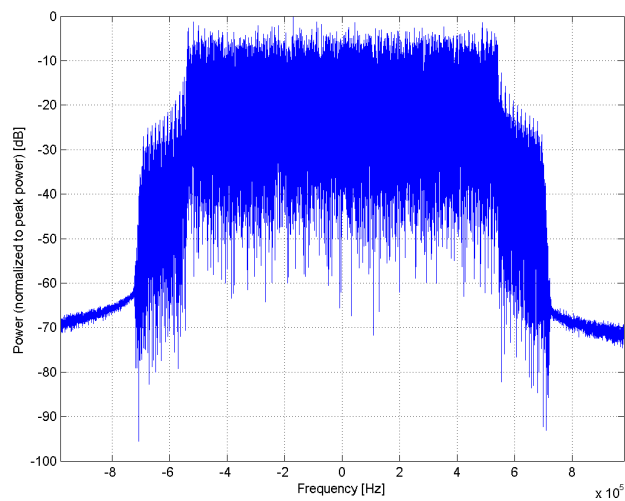
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

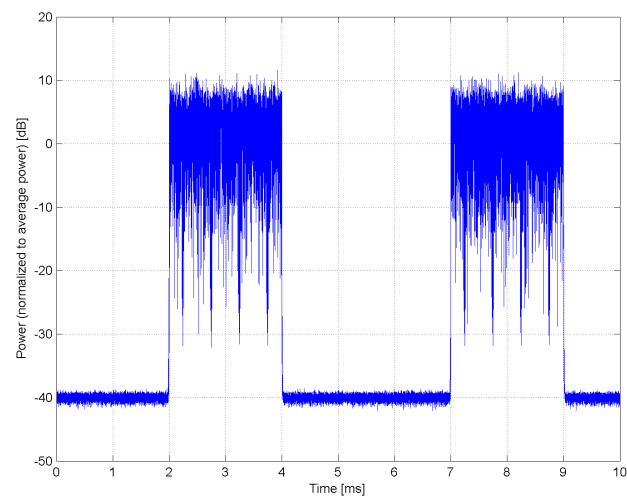
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)**

Group: LTE-TDD
UID: 10258-CAC

PAR: ¹ **9.34 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

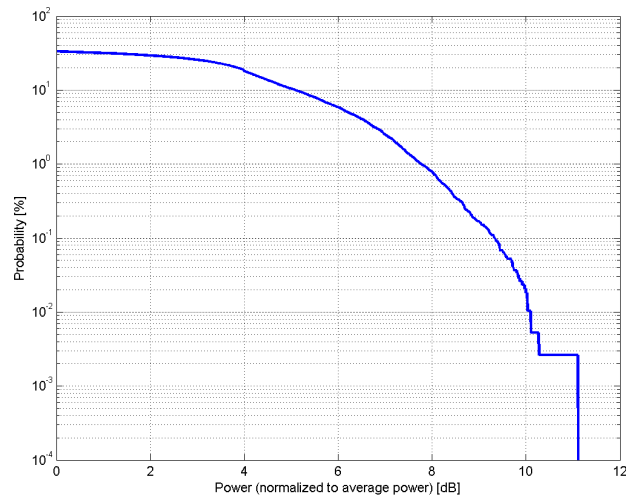
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

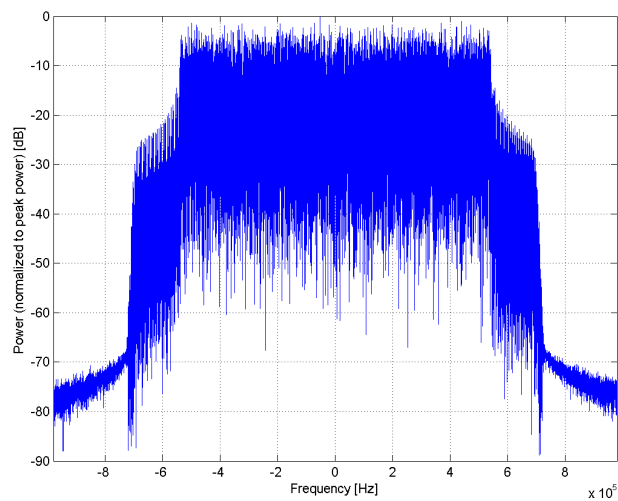
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

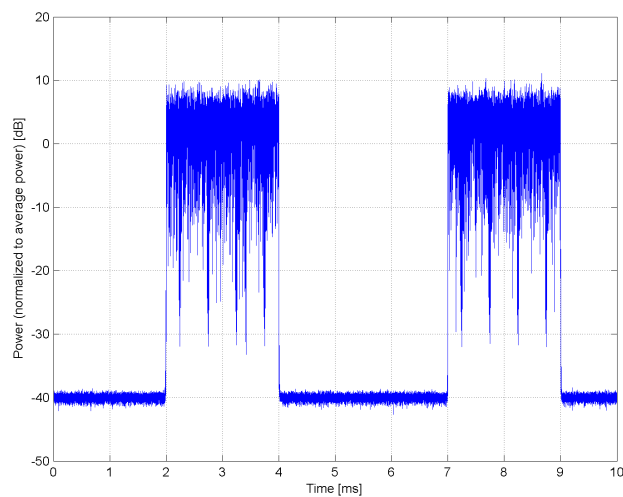
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10259-CAE

PAR: ¹ **9.98 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

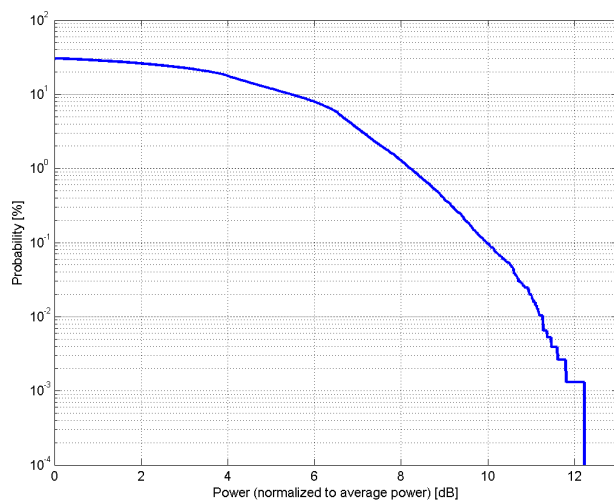
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

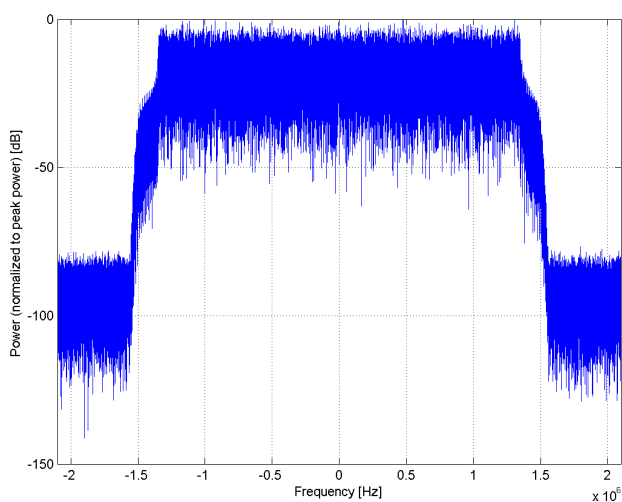
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

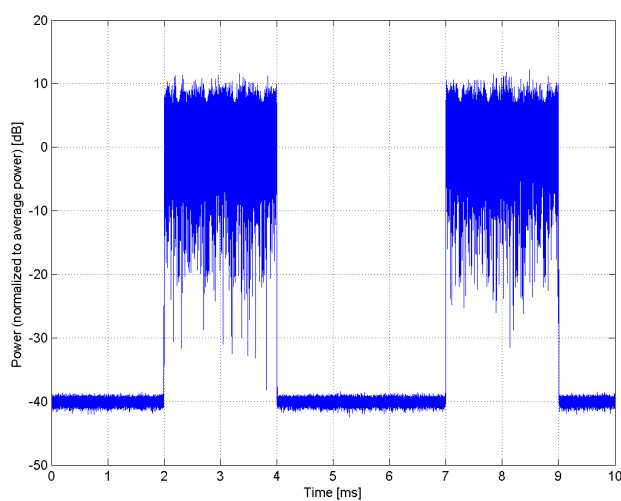
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10260-CAE

PAR: ¹ **9.97 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

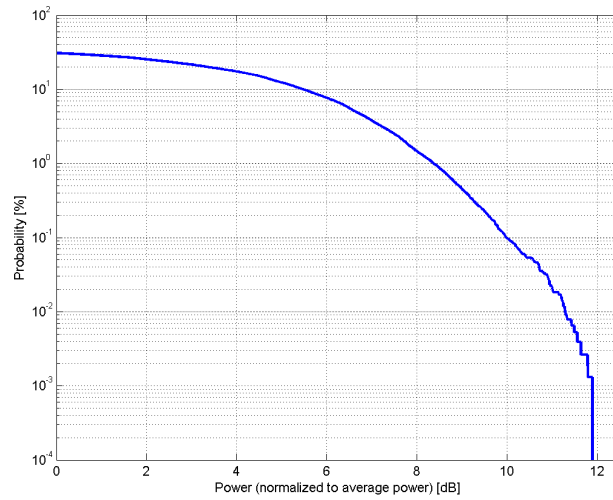
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

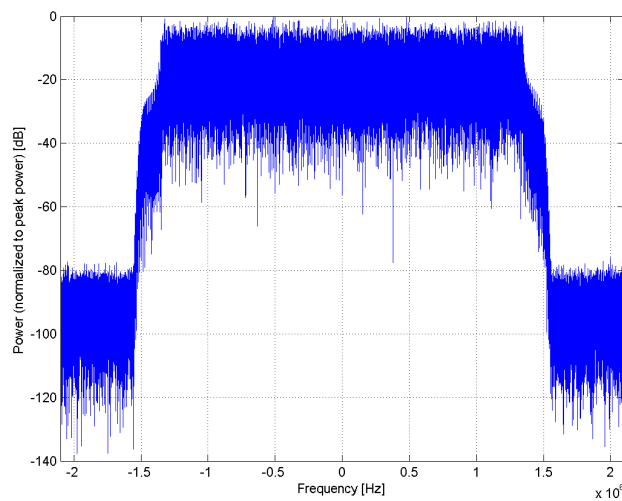
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

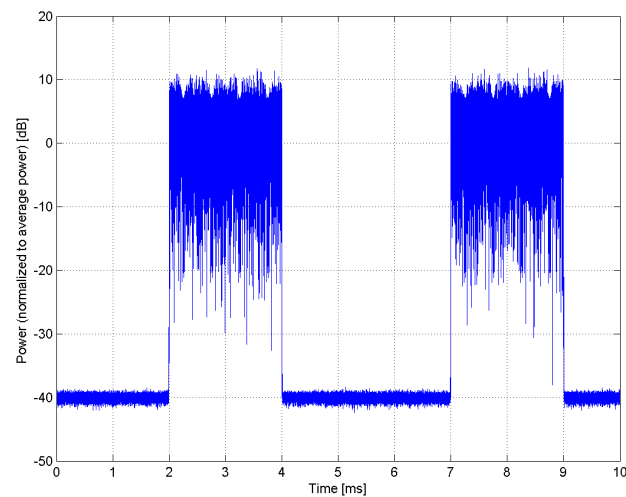
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)**

Group: LTE-TDD
UID: 10261-CAE

PAR: ¹ **9.24 dB**
MIF: ² **-1.64 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

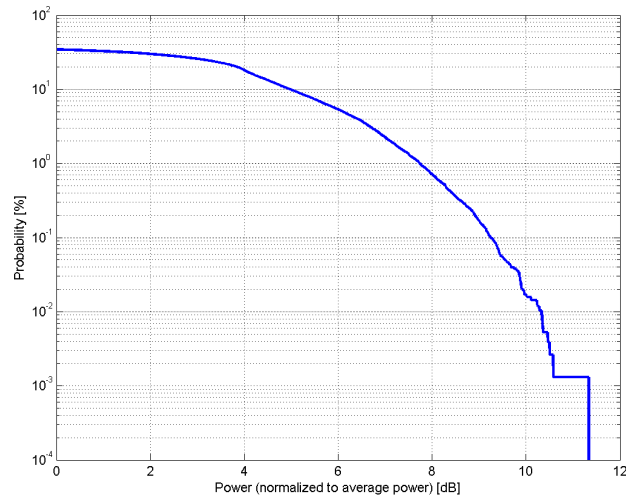
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

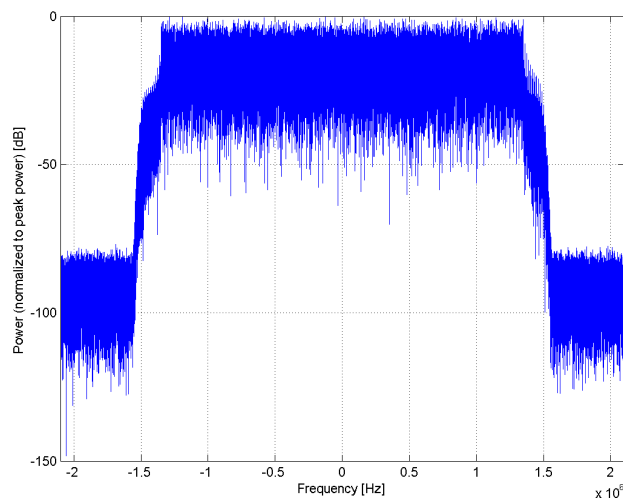
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

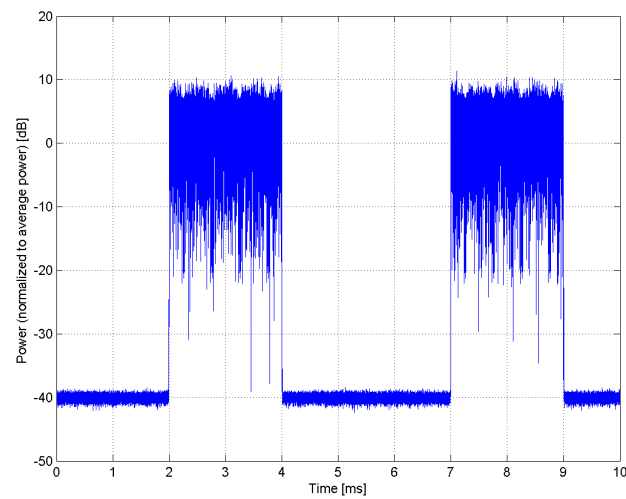
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10262-CAH

PAR: ¹ **9.83 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

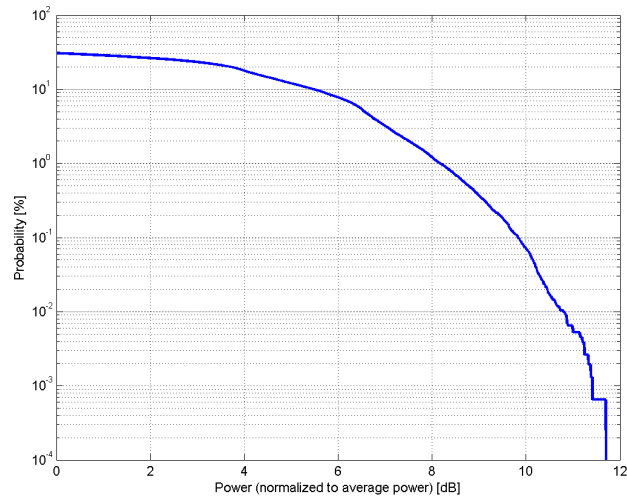
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16-QAM
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

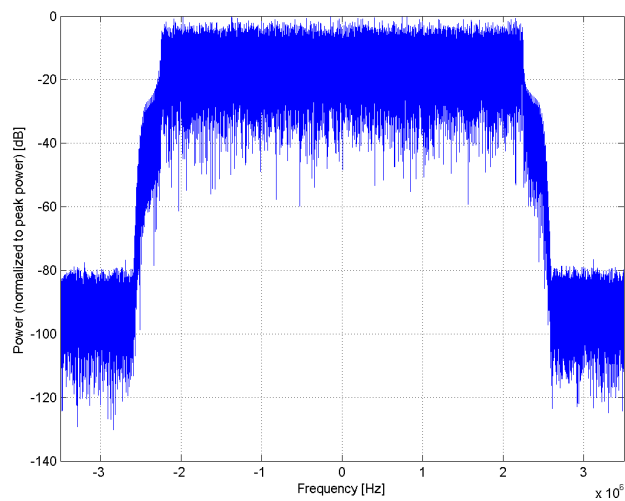
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

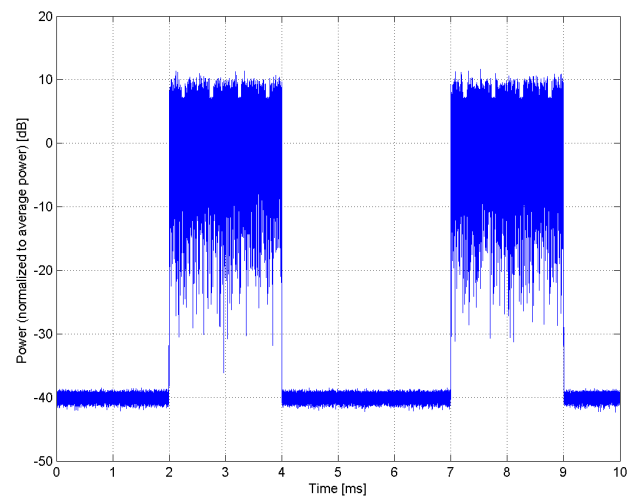
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10263-CAH

PAR: ¹ **10.16 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

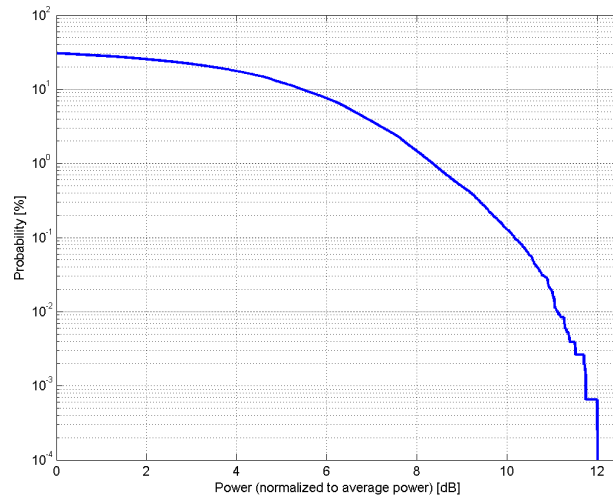
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

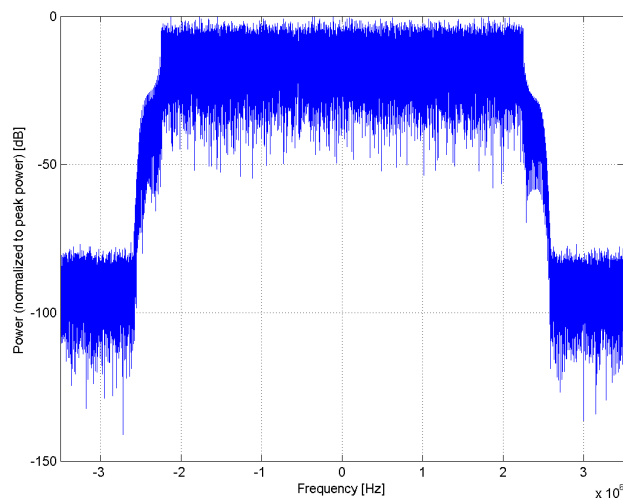
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

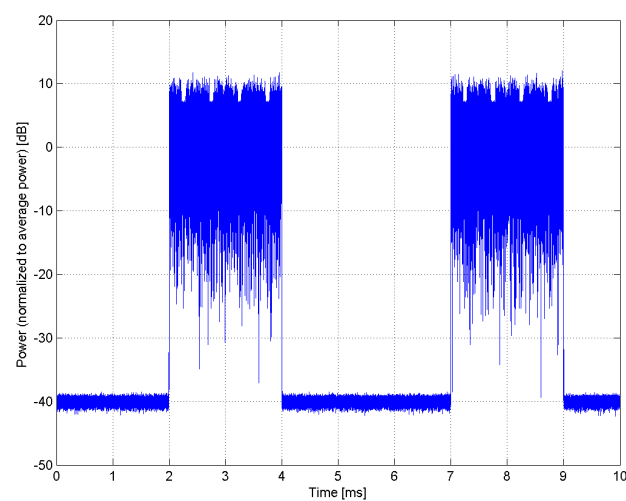
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)**

Group: LTE-TDD
UID: 10264-CAH

PAR: ¹ **9.23 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

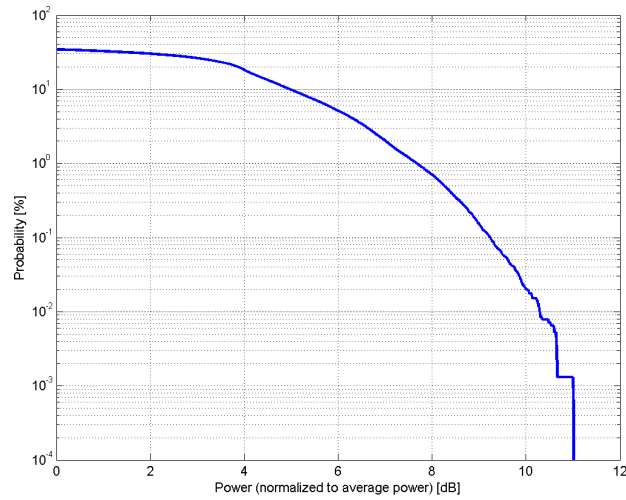
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

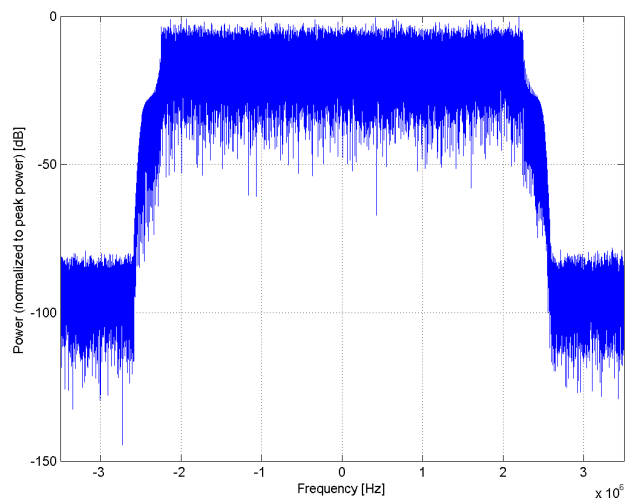
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

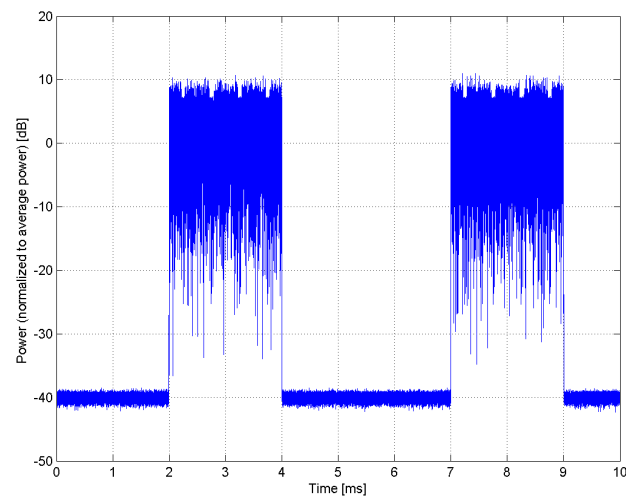
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



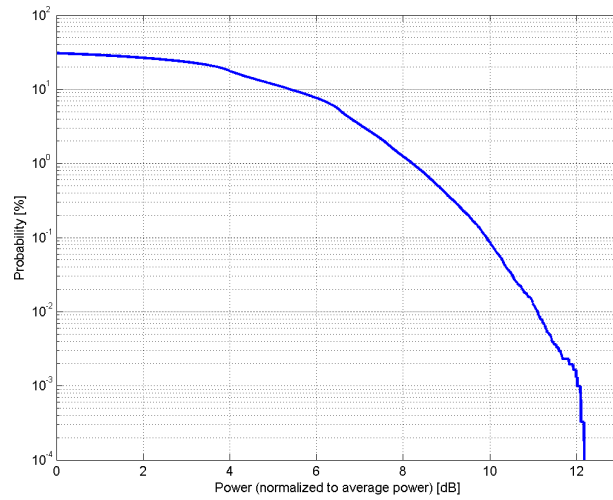
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

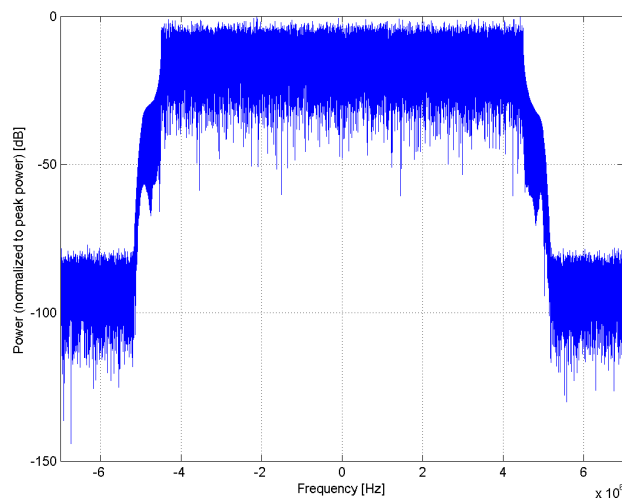
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) |
| Group: | LTE-TDD |
| UID: | 10265-CAH |
| PAR: ¹ | 9.92 dB |
| MIF: ² | -1.66 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 50 Start Number of RB: 0 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

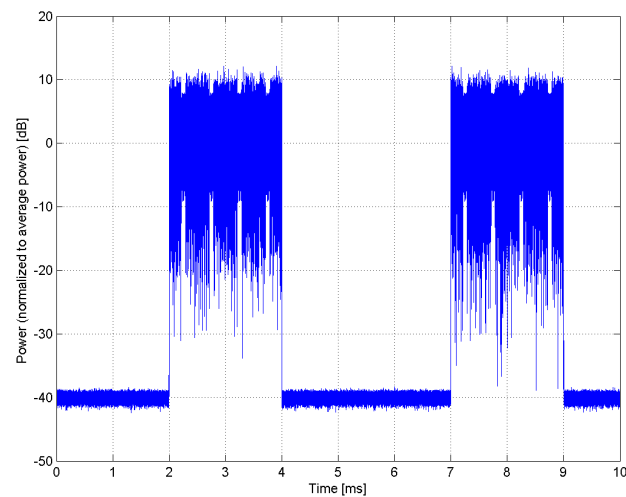
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10266-CAH

PAR: ¹ **10.07 dB**
MIF: ² **-1.66 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

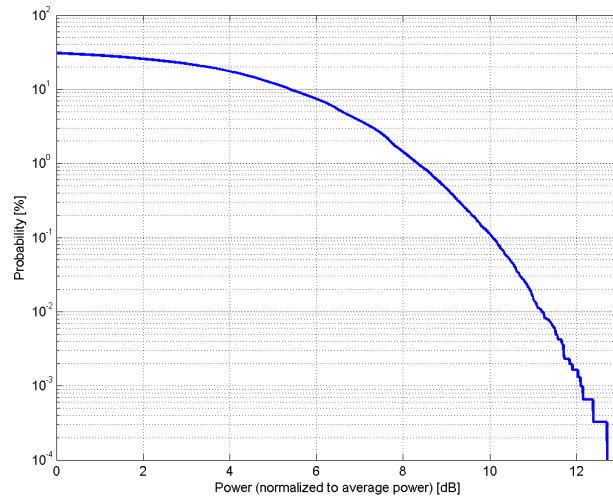
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

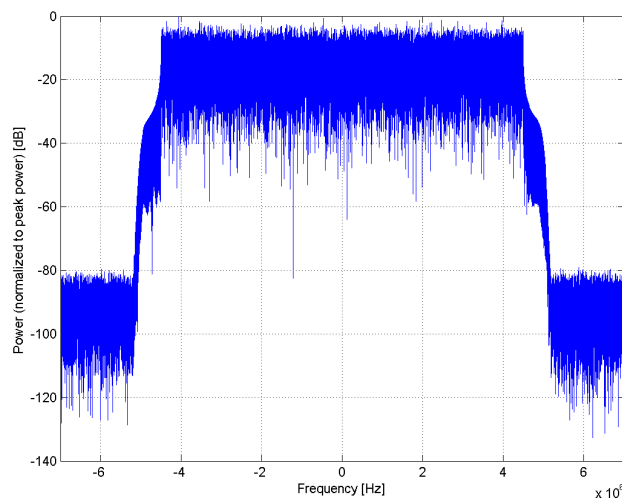
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

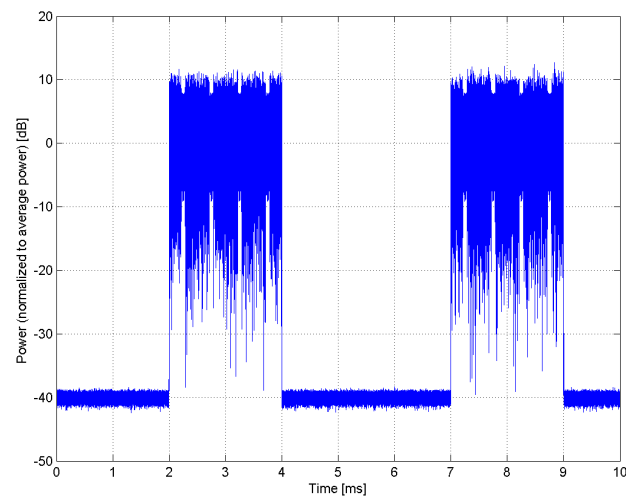
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



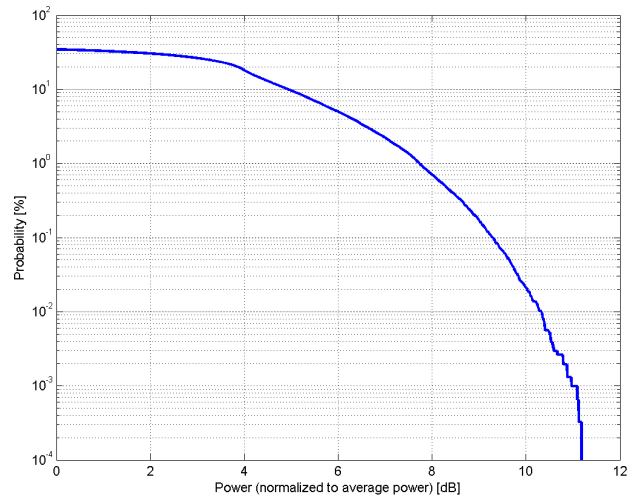
Time Domain

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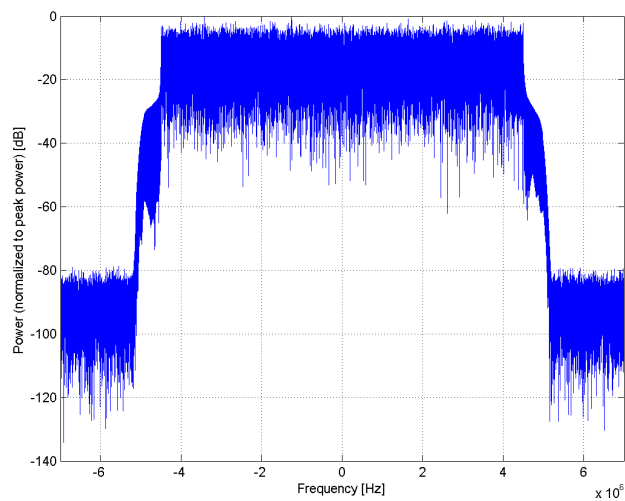
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) |
| Group: | LTE-TDD |
| UID: | 10267-CAH |
| PAR: ¹ | 9.30 dB |
| MIF: ² | -1.64 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 50 Start Number of RB: 0 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

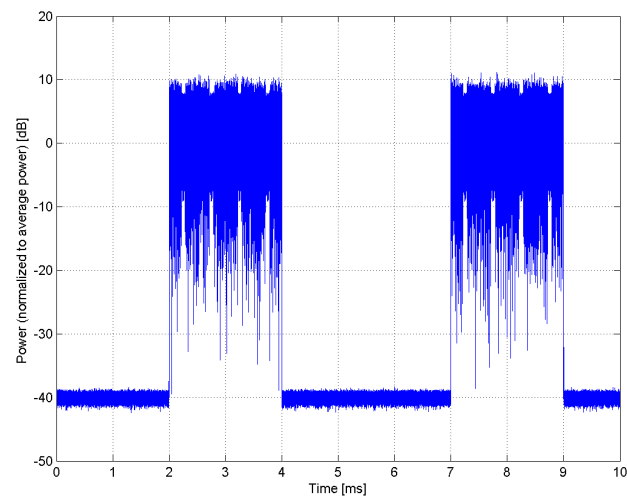
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)**

Group: LTE-TDD
UID: 10268-CAG

PAR: ¹ **10.06 dB**
MIF: ² **-1.67 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

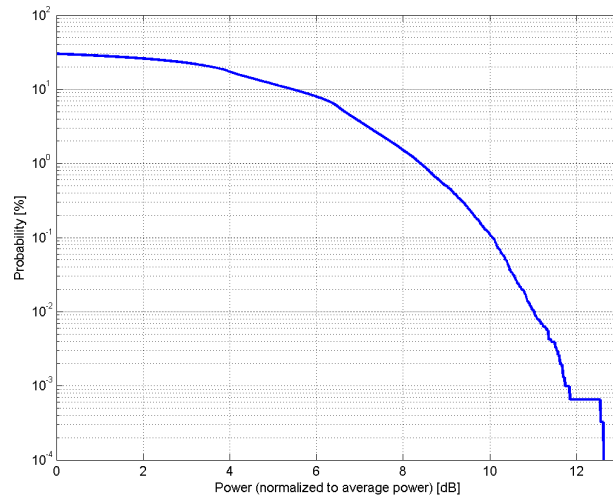
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 16QAM
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

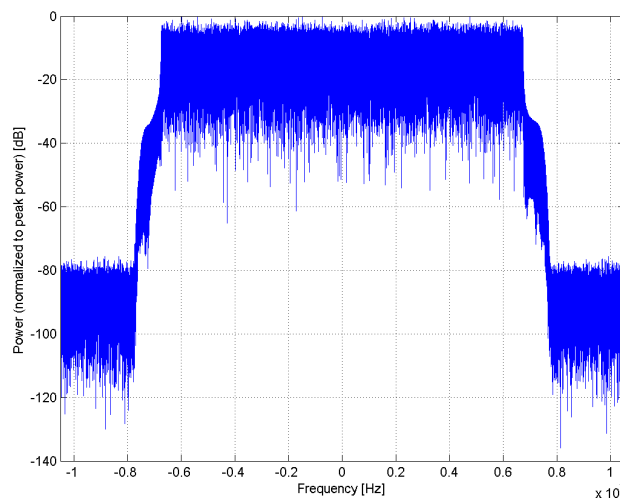
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

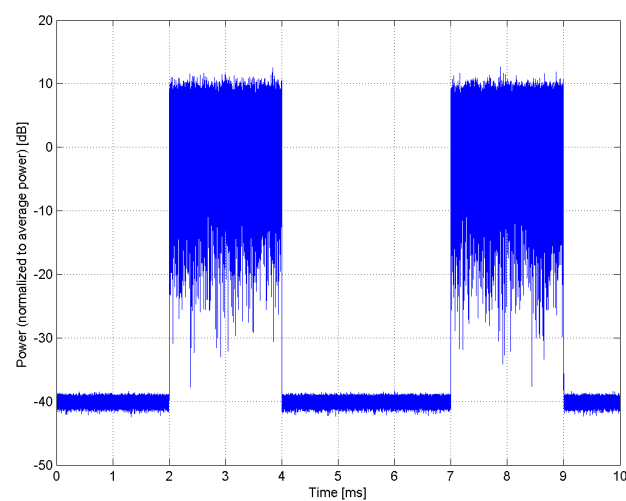
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)**

Group: LTE-TDD
UID: 10269-CAG

PAR: ¹ **10.13 dB**
MIF: ² **-1.69 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

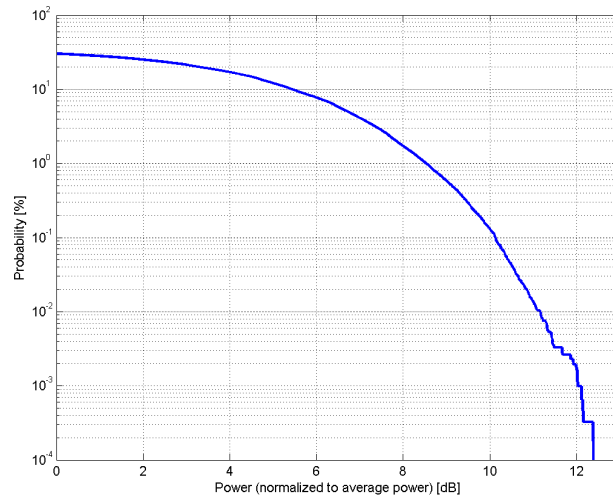
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: 64QAM
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

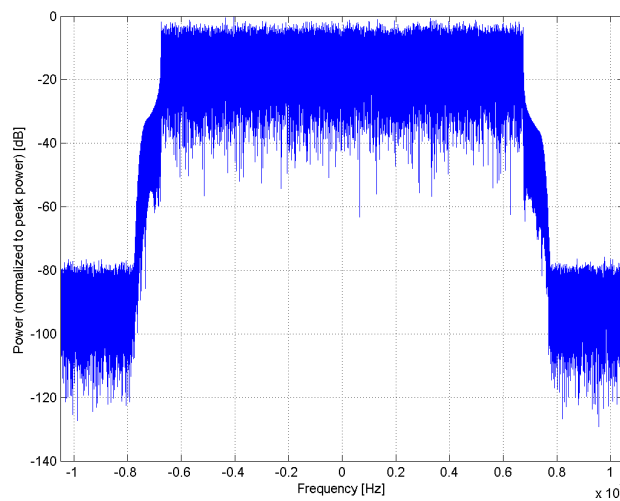
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

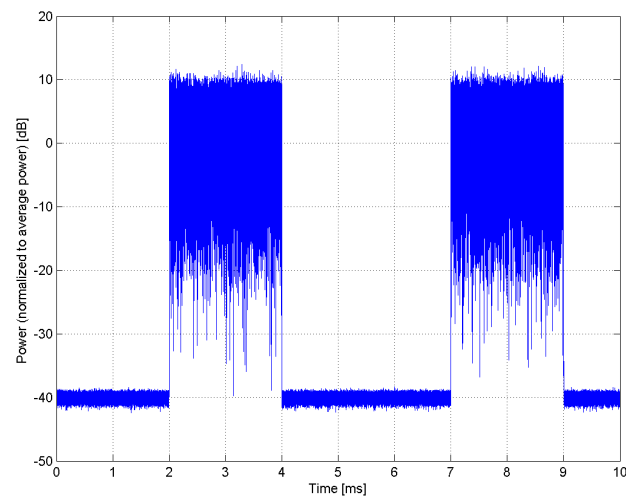
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)**

Group: LTE-TDD
UID: 10270-CAG

PAR: ¹ **9.58 dB**
MIF: ² **-1.65 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

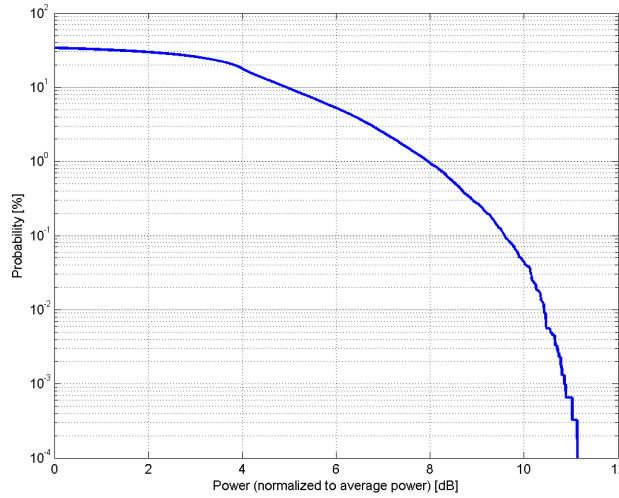
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 1
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe 2,3,7,8:
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

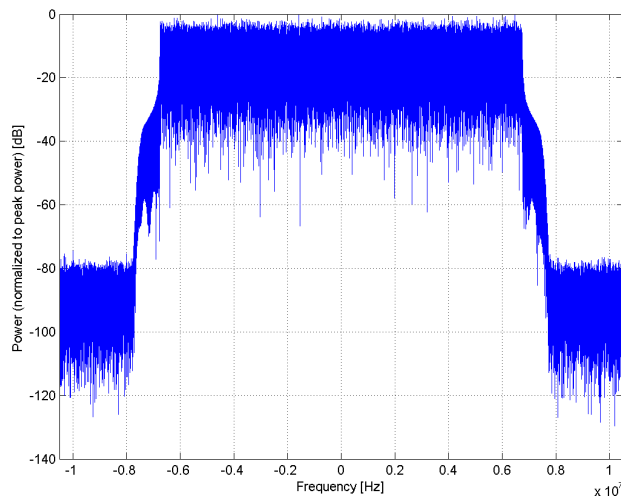
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

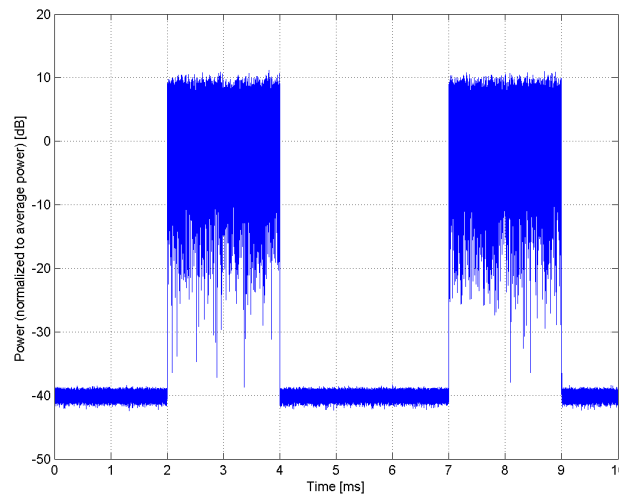
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



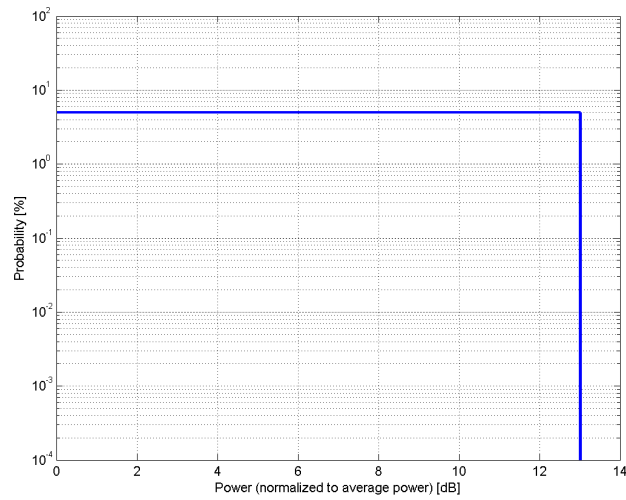
Time Domain

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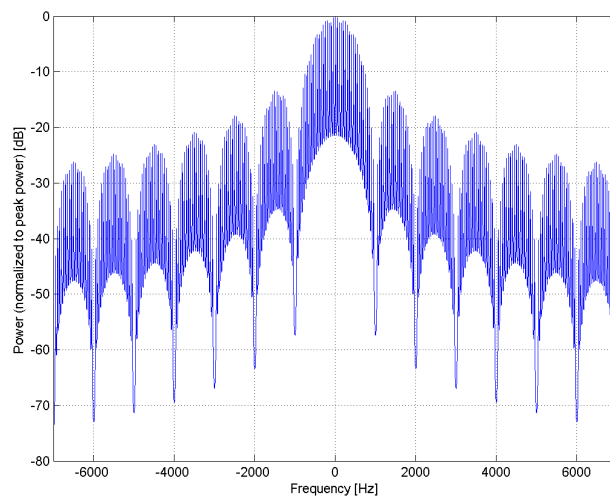
| | |
|-------------------------|---|
| Name: | MRI (Square, 20ms, 1.0ms) |
| Group: | MRI |
| UID: | 10272-CAC |
| PAR: ¹ | 13.01 dB |
| MIF: ² | -99.00 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 50 Hz Duty Cycle: 5% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 20.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

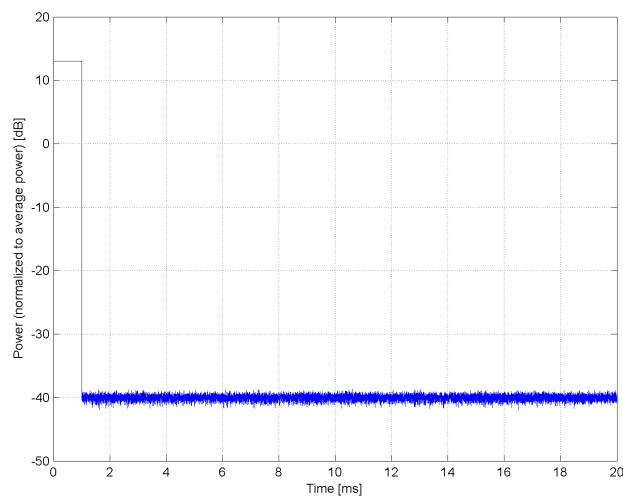
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)**

Group: WCDMA
UID: 10274-CAC

PAR: ¹ **4.87 dB**
MIF: ² **-24.48 dB**

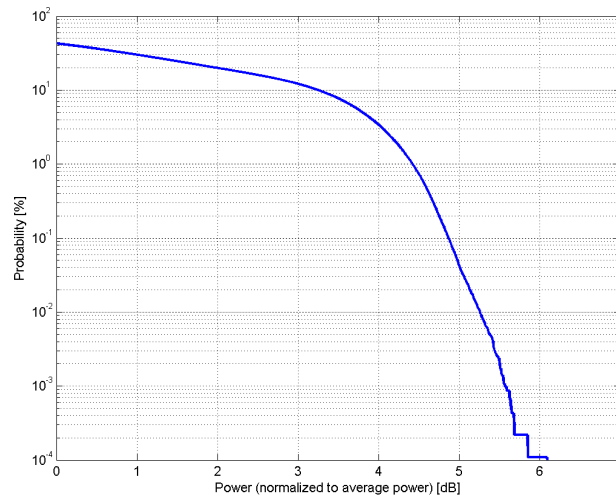
Standard Reference: ETSI-3GPP TS 134 121-1 V8.10.0 (2010-06), Section C11.1
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: 12.2 kbps RMC, FRC H-Set 1
CQI value: 2
Sub-test 5 Conditions:
DPCCH gain factor (Beta.c) = 15/15
DPDCH gain factor (Beta.d): 0

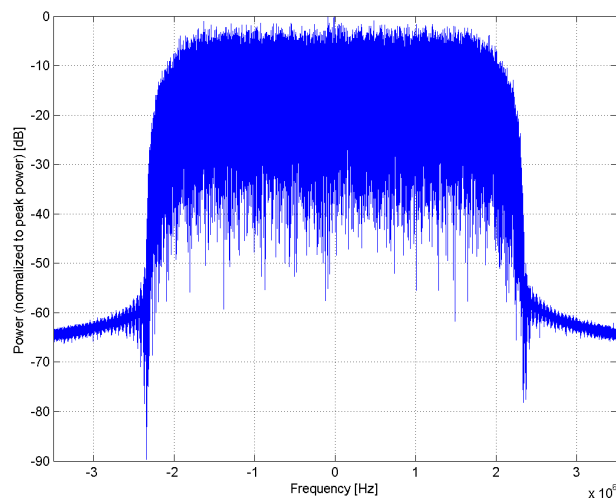
Bandwidth: 5.0 MHz
Integration Time: 80.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

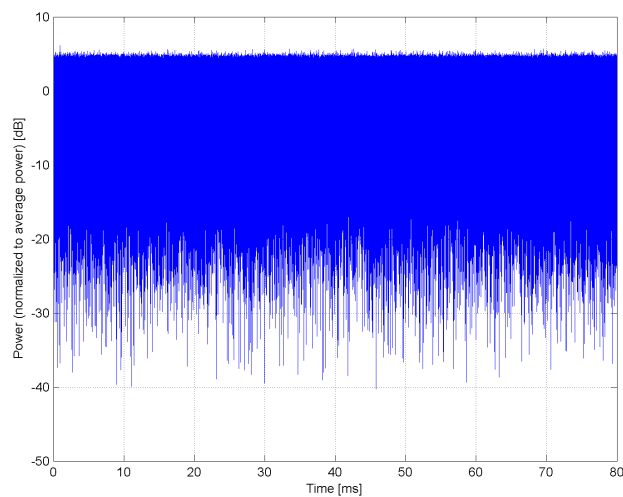
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)**

Group: WCDMA
UID: 10275-CAC

PAR: ¹ **3.96 dB**
MIF: ² **-26.26 dB**

Standard Reference: ETSI-3GPP TS 134 121-1 V8.04.0 (2008-10), Section C11.1
FCC OET KDB 941225 D01 SAR test for 3G devices v02
FCC OET KDB 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02v01

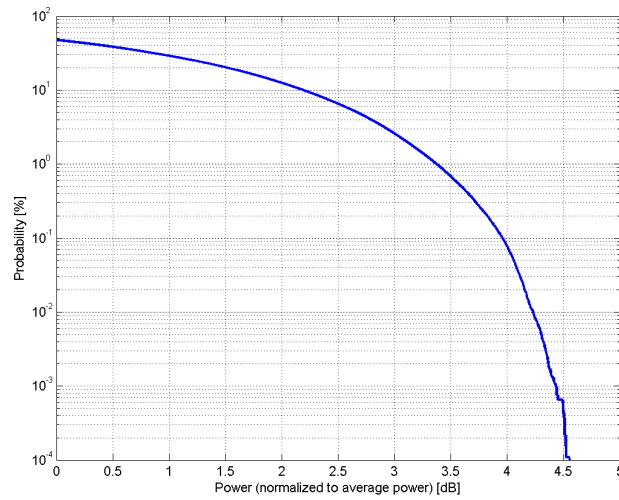
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: 12.2 kbps RMC, FRC H-Set 1
CQI value: 2
Sub-test 5 Conditions:
DPCCH gain factor (Beta.c) = 15/15
DPDCH gain factor (Beta.d): 15/15

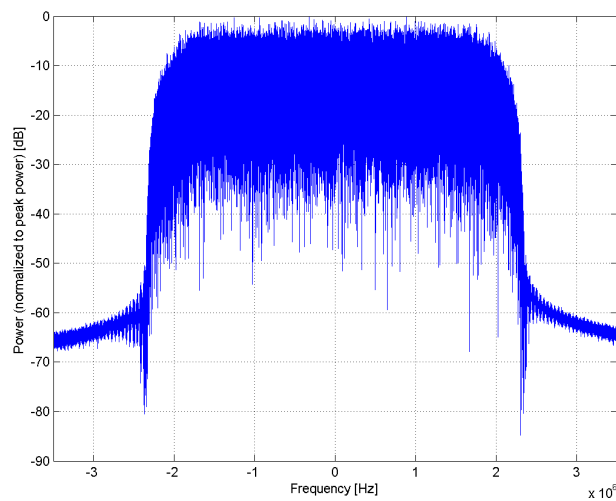
Bandwidth: 5.0 MHz
Integration Time: 80.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

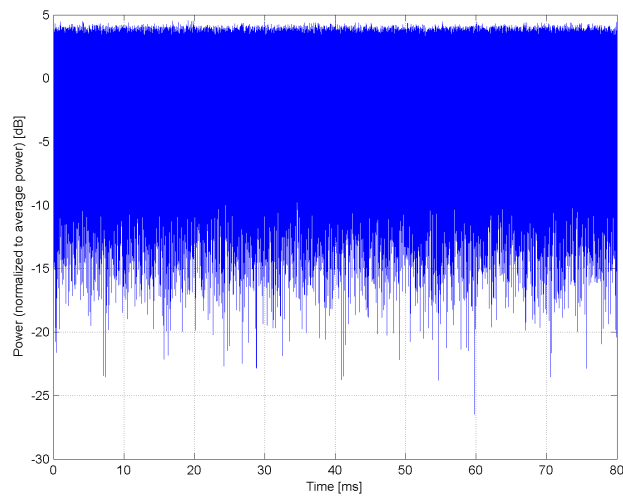
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



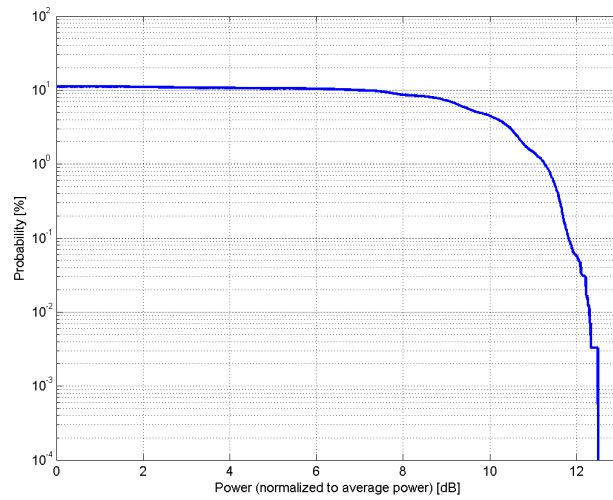
Time Domain

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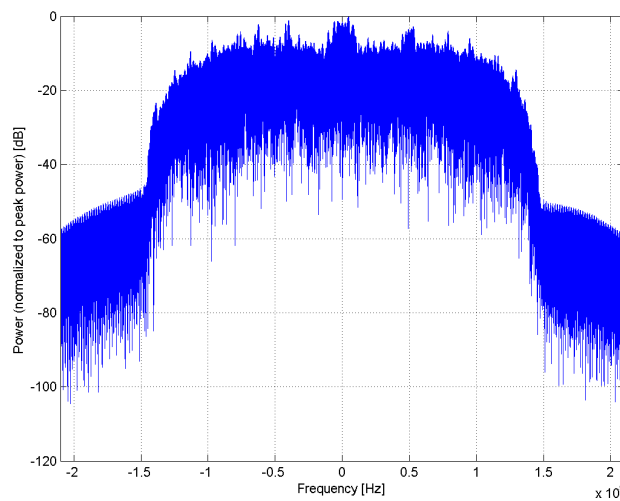
| | |
|-------------------------|---|
| Name: | PHS (QPSK) |
| Group: | PHS |
| UID: | 10277-CAA |
| PAR: ¹ | 11.81 dB |
| MIF: ² | 3.54 dB |
| Standard Reference: | ARIB STANDARD RCR STD-28 VERSION 6.0 |
| Category: | Periodic pulsed modulation |
| Modulation: | QPSK |
| Frequency Band: | PHS band (1884.5-1919.6 MHz, 20191) |
| Detailed Specification: | Channel type: Traffic Data type: PN9 Active slot: 5th Frame: composed out of 8 slots Occupied bandwidth: 288kHz or less |
| Bandwidth: | 0.3 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

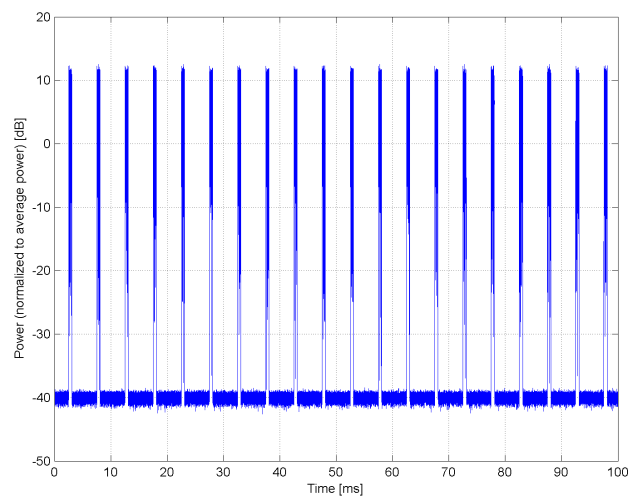
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



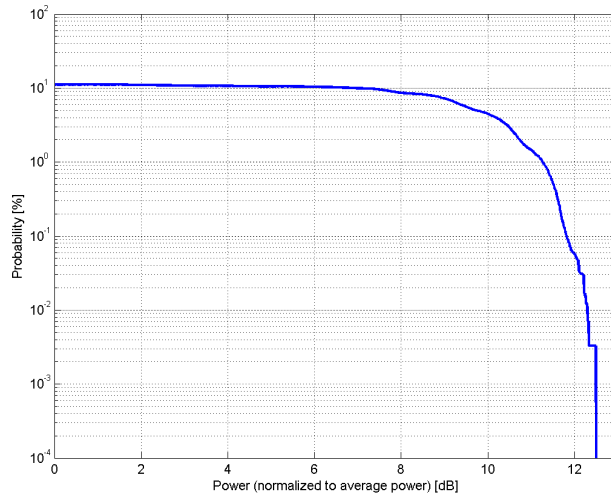
Time Domain

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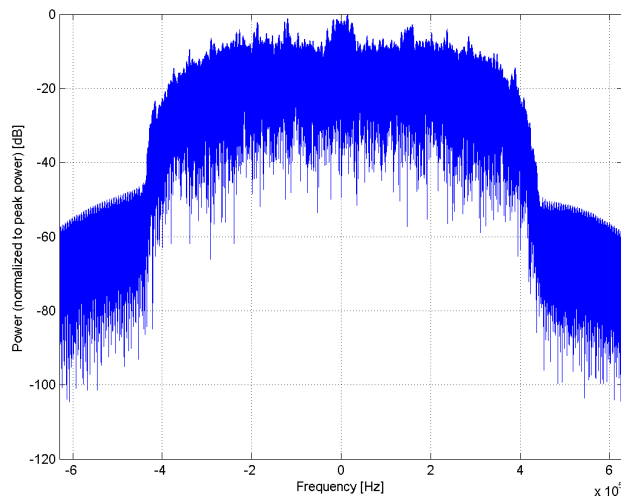
| | |
|-------------------------|--|
| Name: | PHS (QPSK, BW 884MHz, Rolloff 0.5) |
| Group: | PHS |
| UID: | 10278-CAA |
| PAR: ¹ | 11.81 dB |
| MIF: ² | 3.36 dB |
| Standard Reference: | ARIB STANDARD RCR STD-28 VERSION 6.0 |
| Category: | Periodic pulsed modulation |
| Modulation: | QPSK |
| Frequency Band: | PHS band large BW (1884.5-1893.5 MHz, 20192) |
| Detailed Specification: | Channel type: Traffic Data type: PN9 Active slot: 5th Frame: composed out of 8 slots Occupied bandwidth: 884kHz or less Rolloff factor: 0.5 |
| Bandwidth: | 0.9 MHz |
| Integration Time: | 33.3 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

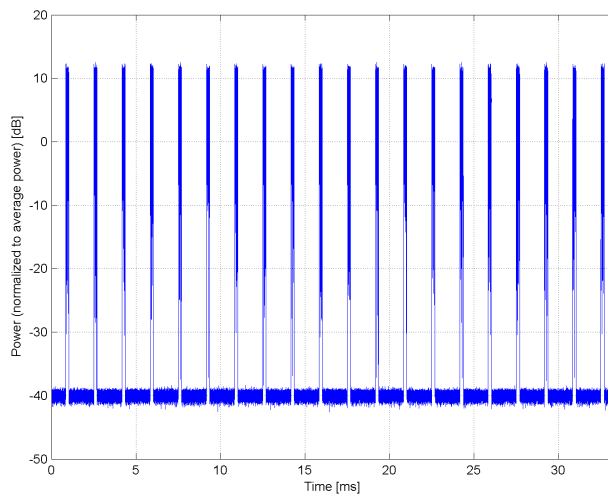
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



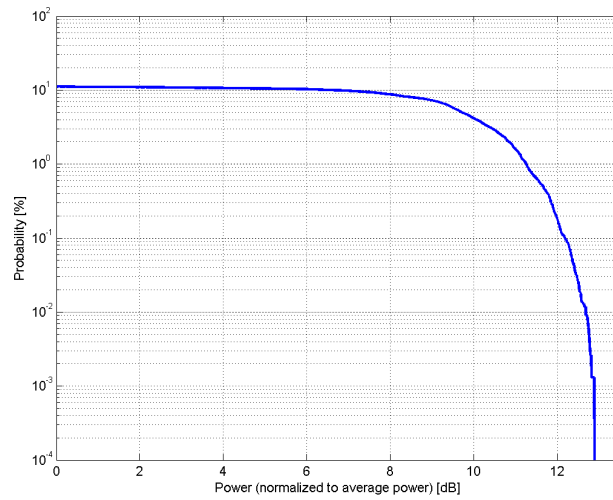
Time Domain

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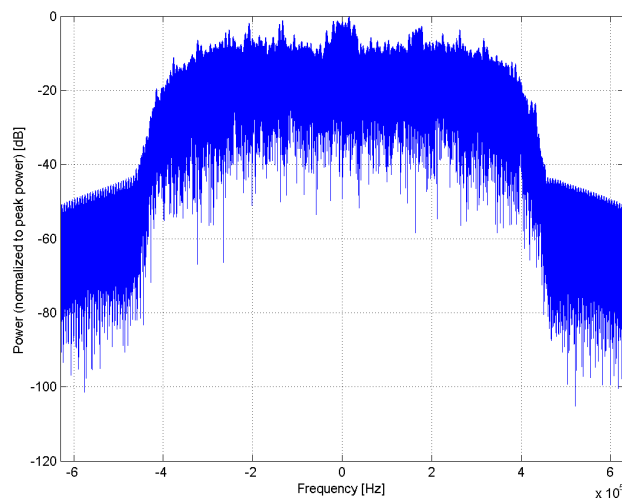
| | |
|-------------------------|---|
| Name: | PHS (QPSK, BW 884MHz, Rolloff 0.38) |
| Group: | PHS |
| UID: | 10279-CAA |
| PAR: ¹ | 12.18 dB |
| MIF: ² | 3.25 dB |
| Standard Reference: | ARIB STANDARD RCR STD-28 VERSION 6.0 |
| Category: | Periodic pulsed modulation |
| Modulation: | QPSK |
| Frequency Band: | PHS band large BW (1884.5-1893.5 MHz, 20192) |
| Detailed Specification: | Channel type: Traffic Data type: PN9 Active slot: 5th Frame: composed out of 8 slots Occupied bandwidth: 884kHz or less Rolloff factor: 0.38 |
| Bandwidth: | 0.9 MHz |
| Integration Time: | 30.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

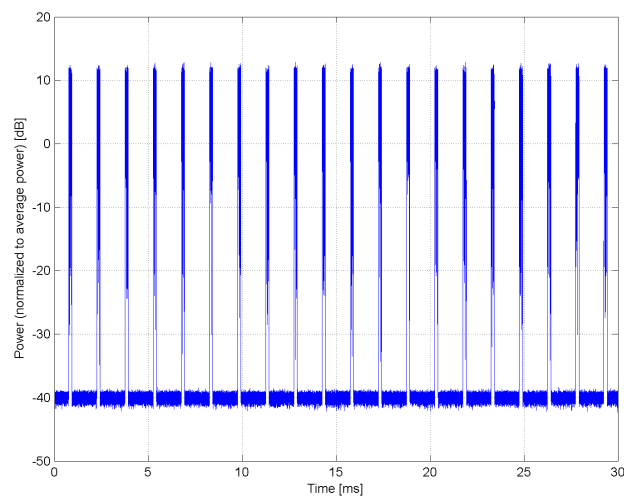
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



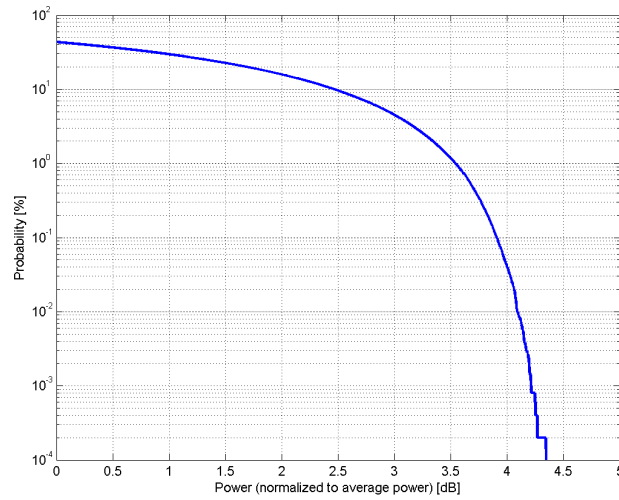
Time Domain

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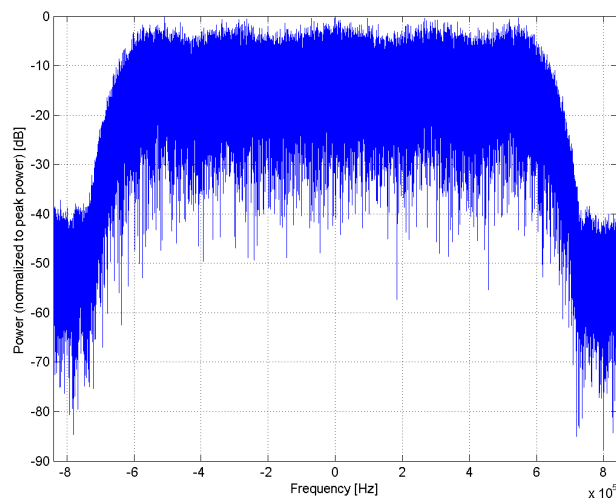
| | |
|-------------------------|--|
| Name: | CDMA2000, RC1, SO55, Full Rate |
| Group: | CDMA2000 |
| UID: | 10290-AAB |
| PAR: ¹ | 3.91 dB |
| MIF: ² | -19.47 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | 64-ary orthogonal |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 1 (RC1) Service Option 55 (SO55) |
| Bandwidth: | Full rate 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

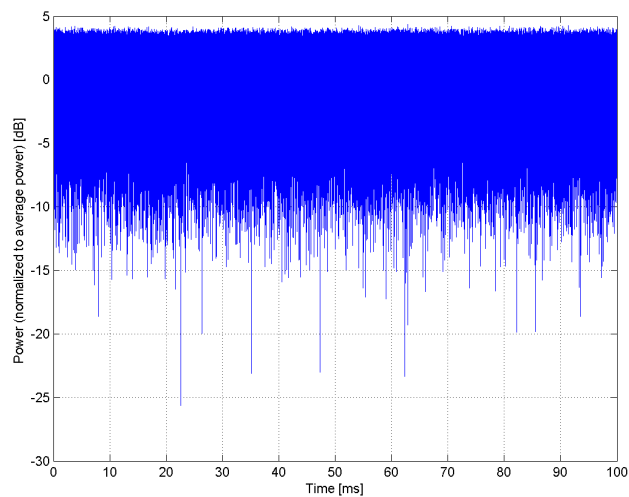
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



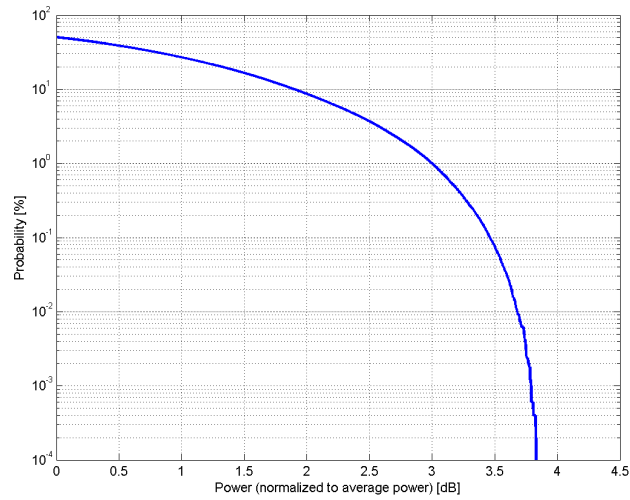
Time Domain

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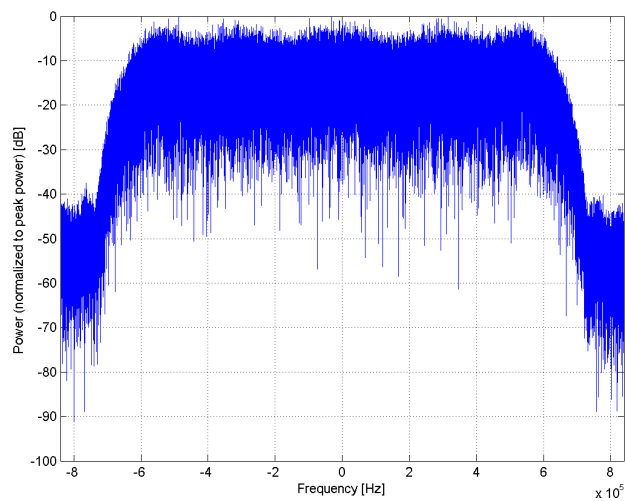
| | |
|-------------------------|--|
| Name: | CDMA2000, RC3, SO55, Full Rate |
| Group: | CDMA2000 |
| UID: | 10291-AAB |
| PAR: ¹ | 3.46 dB |
| MIF: ² | -19.70 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 3 (RC3) Service Option 55 (SO55) |
| Bandwidth: | Full frame rate 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

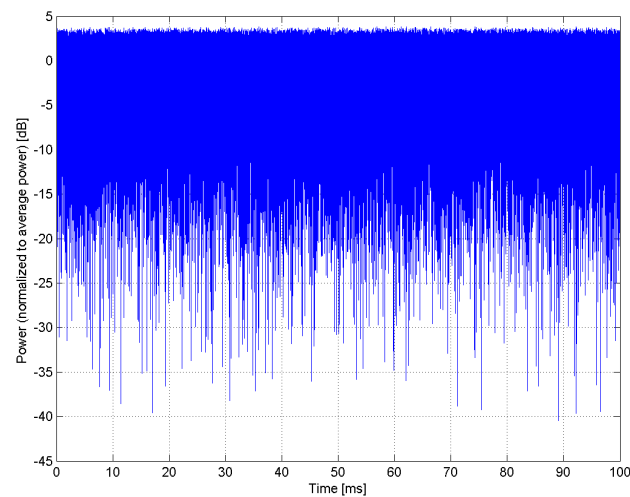
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



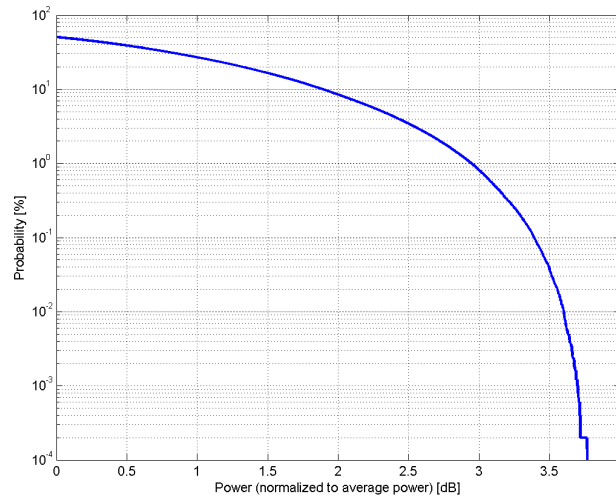
Time Domain

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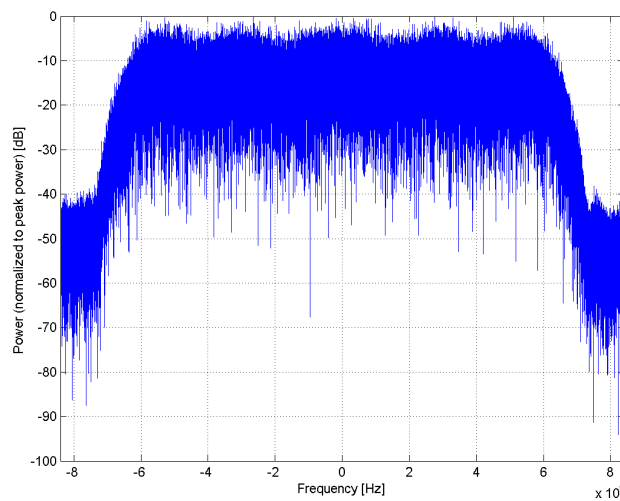
| | |
|-------------------------|--|
| Name: | CDMA2000, RC3, SO32, Full Rate |
| Group: | CDMA2000 |
| UID: | 10292-AAB |
| PAR: ¹ | 3.39 dB |
| MIF: ² | -19.75 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 3 (RC3) Service Option 32 (SO32) SCH0 disabled |
| Bandwidth: | Full frame rate 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

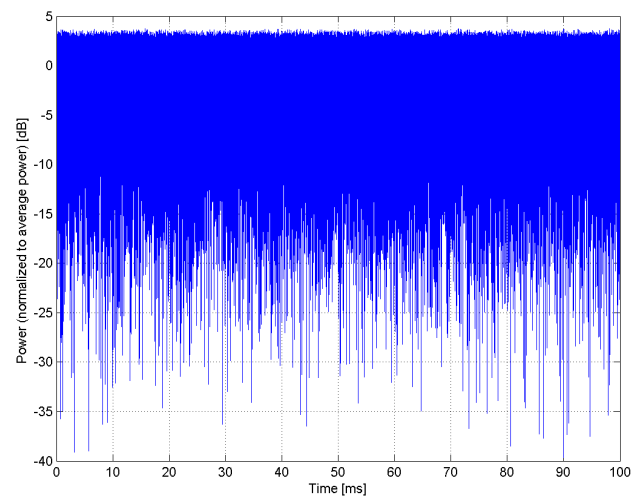
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



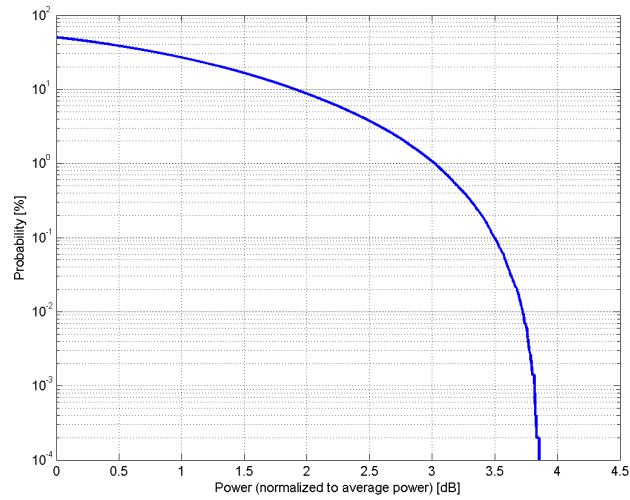
Time Domain

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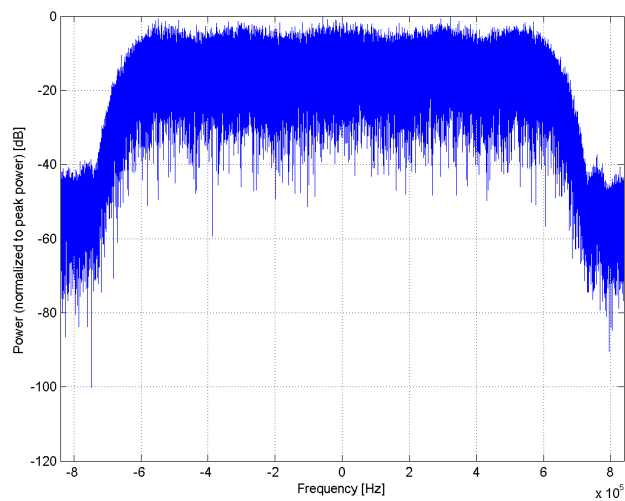
| | |
|-------------------------|--|
| Name: | CDMA2000, RC3, SO3, Full Rate |
| Group: | CDMA2000 |
| UID: | 10293-AAB |
| PAR: ¹ | 3.50 dB |
| MIF: ² | -19.43 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 3 (RC3) Service Option 3 (SO3) Speech codec: 8k EVRC (Enhanced Voice Rate Codec) Full frame rate |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

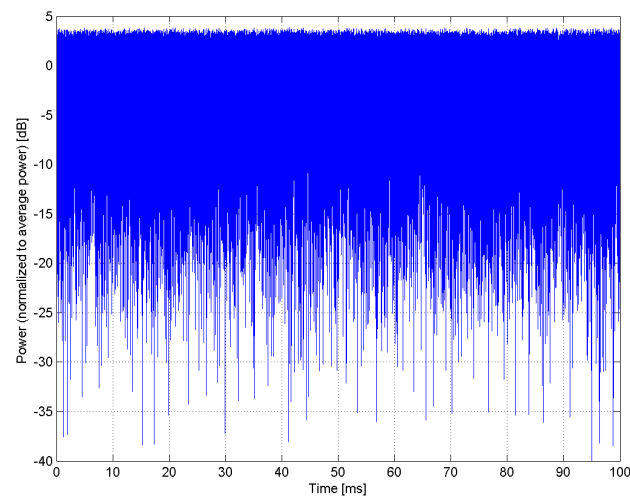
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



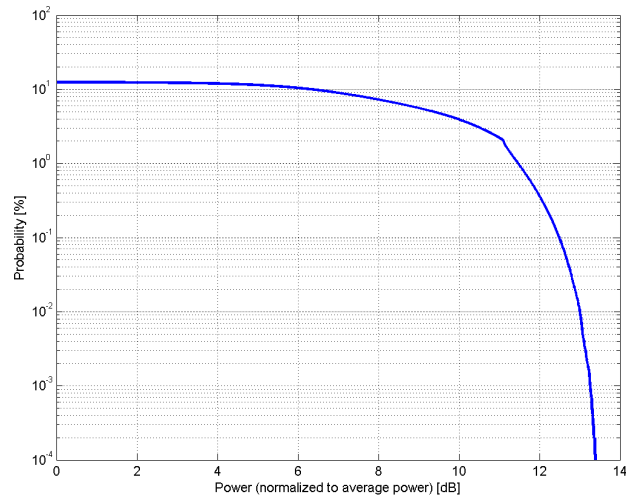
Time Domain

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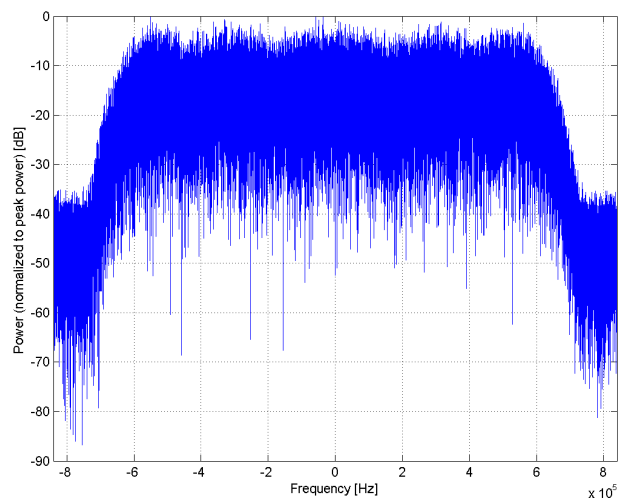
| | |
|-------------------------|--|
| Name: | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. |
| Group: | CDMA2000 |
| UID: | 10295-AAB |
| PAR: ¹ | 12.49 dB |
| MIF: ² | 3.26 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | 64-ary orthogonal |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 1 (RC1) Service Option 3 (SO3) Speech codec: 8k EVRC (Enhanced Voice Rate Codec) 1/8th frame rate |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 500.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

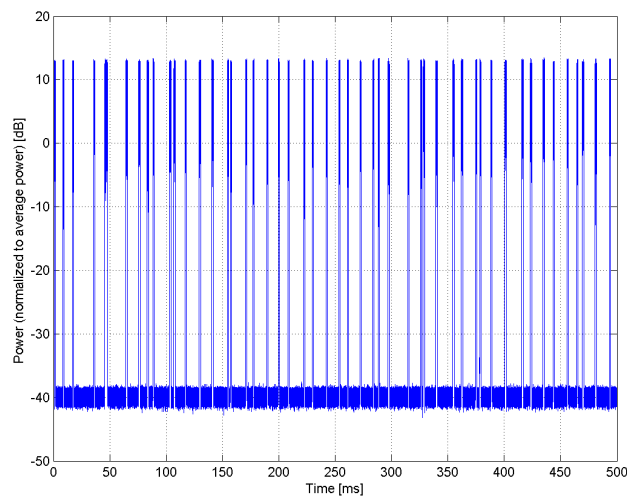
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



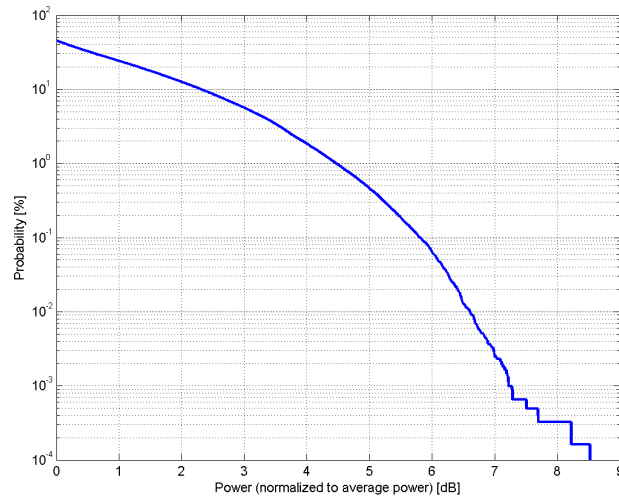
Time Domain

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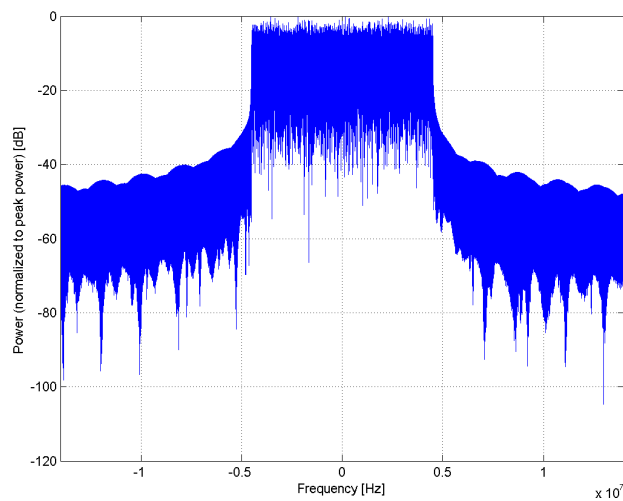
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10297-AAE |
| PAR: ¹ | 5.81 dB |
| MIF: ² | -21.56 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 50 Transport Block Size: 4392 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

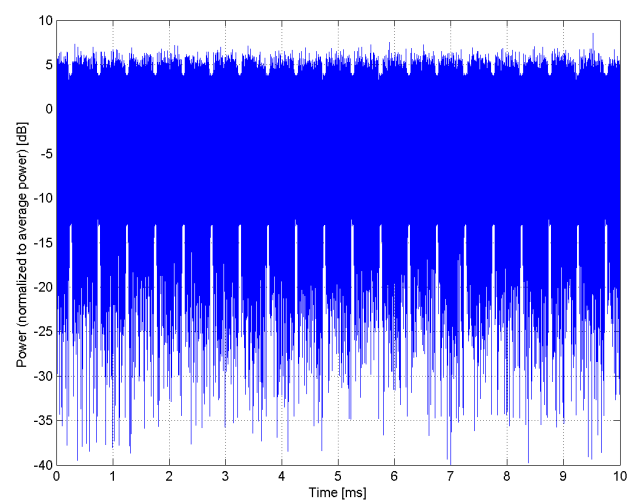
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



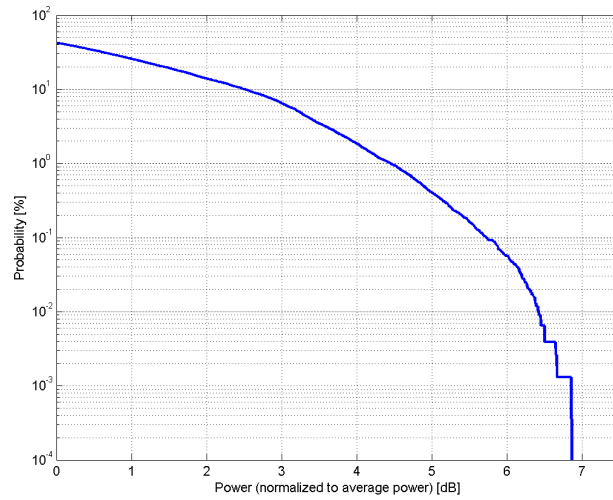
Time Domain

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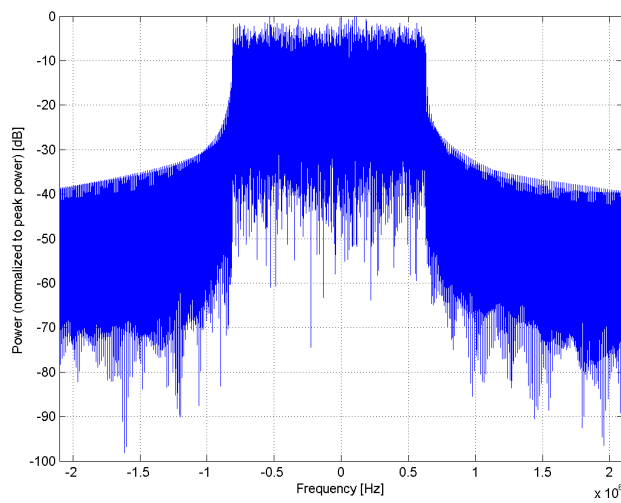
| | |
|-------------------------|---|
| Name: | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10298-AAE |
| PAR: ¹ | 5.72 dB |
| MIF: ² | -20.24 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 5 (824.0 - 849.0 MHz) Band 8 (880.0 - 915.0 MHz) Band 12 (699.0 - 716.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 27 (807.0 - 824.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 31 (452.5 - 457.5 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 72 (451.0 - 456.0 MHz) Band 73 (450.0 - 455.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 8 Transport Block Size: 680 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 3.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

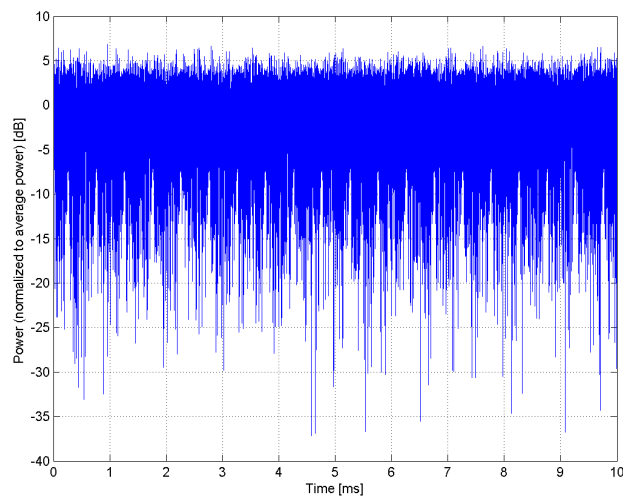
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)**

Group: LTE-FDD
UID: 10299-AAE

PAR: ¹ **6.39 dB**
MIF: ² **-14.38 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

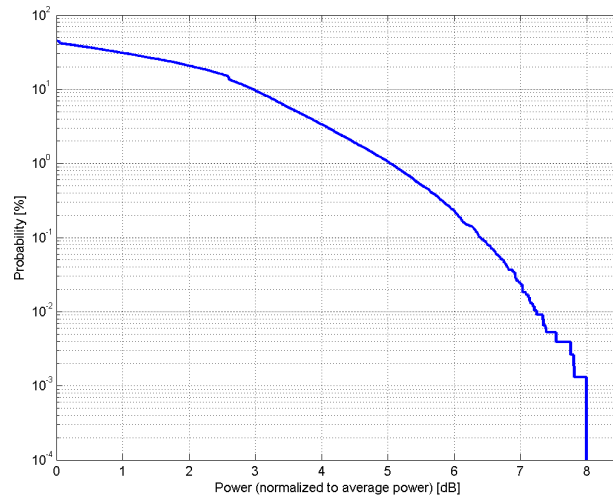
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 16QAM
Data Type: UL-SCH
Number RB: 8
Transport Block Size: 2280
TBS Index: 14
MCS Index: 15
Data Type: PN9

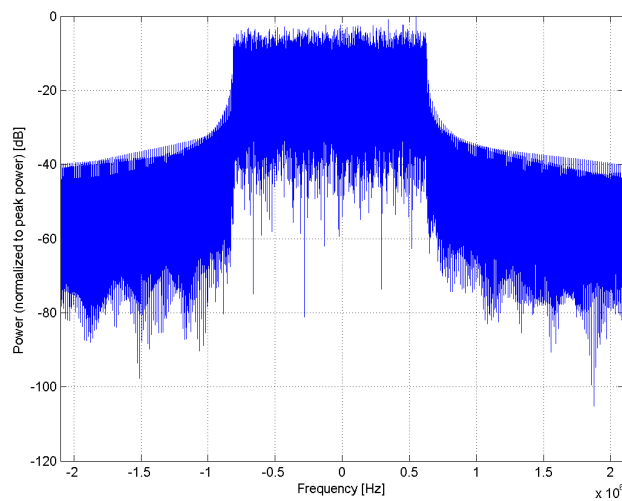
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

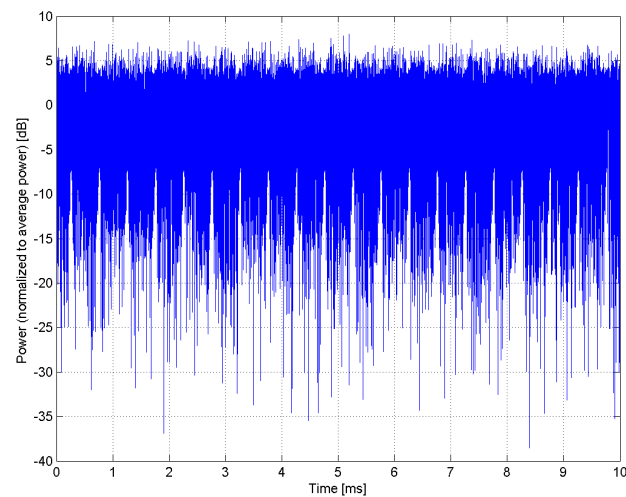
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)**

Group: LTE-FDD
UID: 10300-AAE

PAR: ¹ **6.60 dB**
MIF: ² **-13.14 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

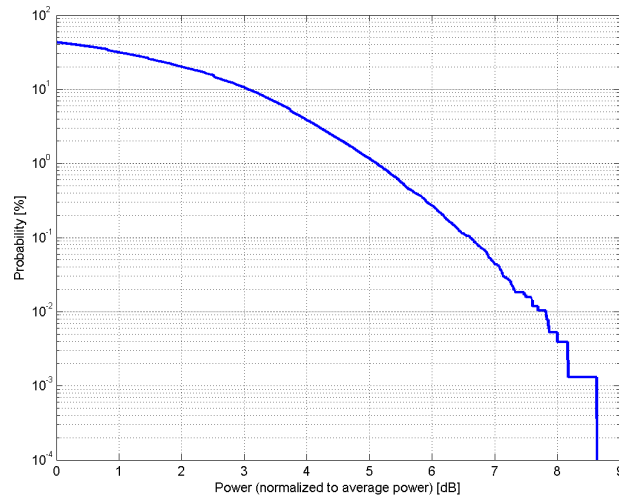
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 12 (699.0 - 716.0 MHz)
Band 23 (2000.0 - 2020.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Band 27 (807.0 - 824.0 MHz)
Band 28 (703.0 - 748.0 MHz)
Band 31 (452.5 - 457.5 MHz)
Band 66 (1710.0 - 1780.0 MHz)
Band 72 (451.0 - 456.0 MHz)
Band 73 (450.0 - 455.0 MHz)
Band 74 (1427.0 - 1470.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Number of PUSCHs: 1
Settings for Subframe #0 to #9:
Modulation Scheme: 64QAM
Data Type: UL-SCH
Number RB: 8
Transport Block Size: 4584
TBS Index: 23
MCS Index: 25
Data Type: PN9

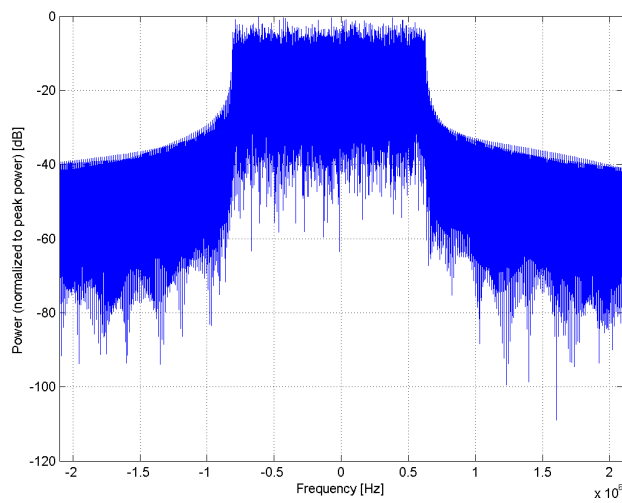
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

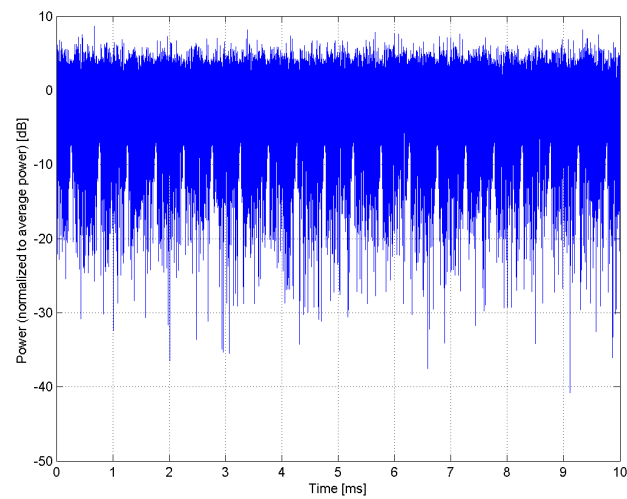
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



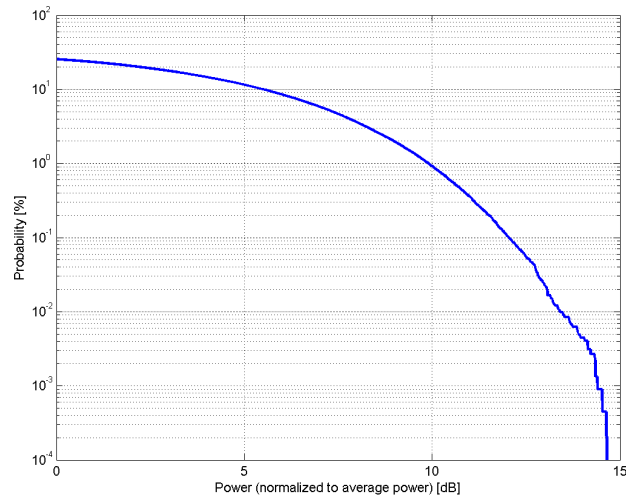
Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

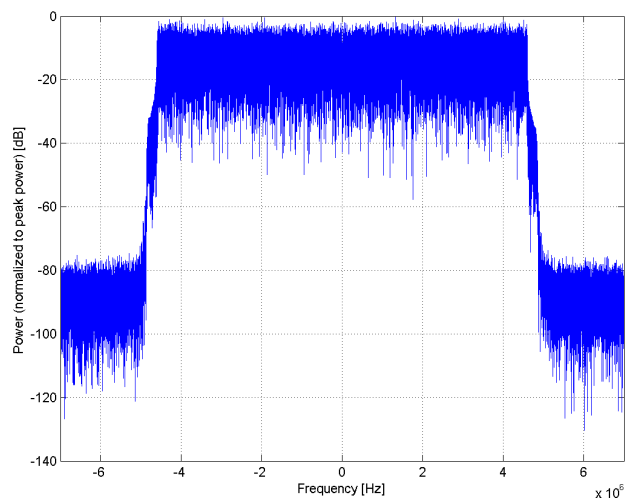
| | |
|-------------------------|--|
| Name: | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) |
| Group: | WiMAX |
| UID: | 10301-AAA |
| PAR: ¹ | 12.03 dB |
| MIF: ² | -1.38 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Detailed Specification: | Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: QPSK(CTC)1/2 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

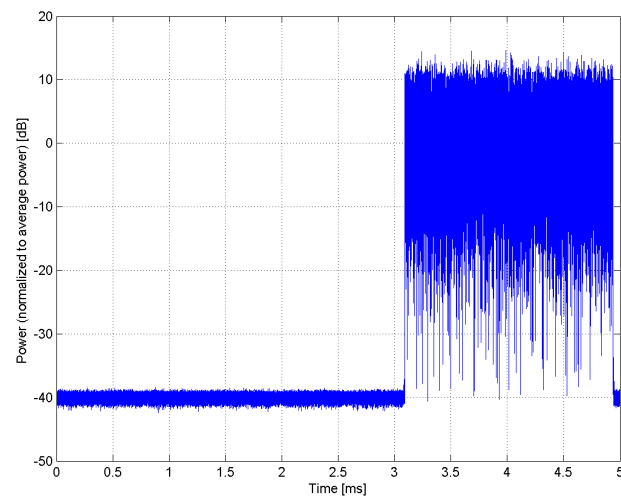
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



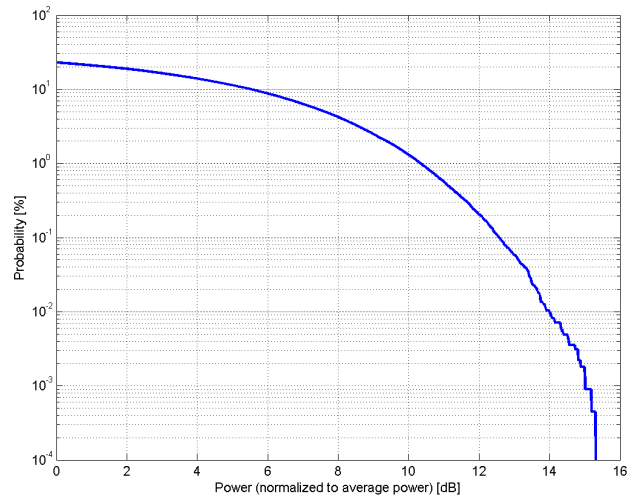
Time Domain

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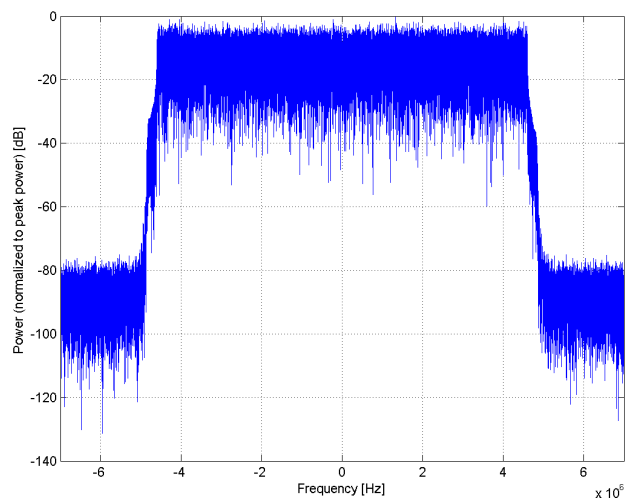
| | |
|-------------------------|---|
| Name: | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) |
| Group: | WiMAX |
| UID: | 10302-AAA |
| PAR: ¹ | 12.57 dB |
| MIF: ² | -0.84 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) |
| Category: | IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Detailed Specification: | Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: QPSK(CTC)1/2 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 (15 traffic symbols + 3 control symbols) UL Zone Types: PUSC |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

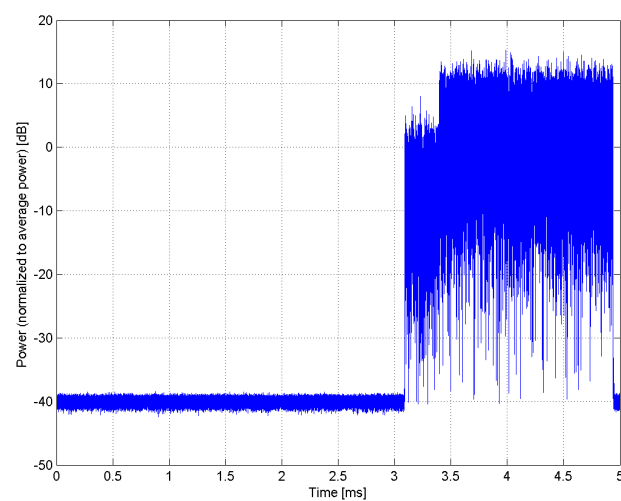
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



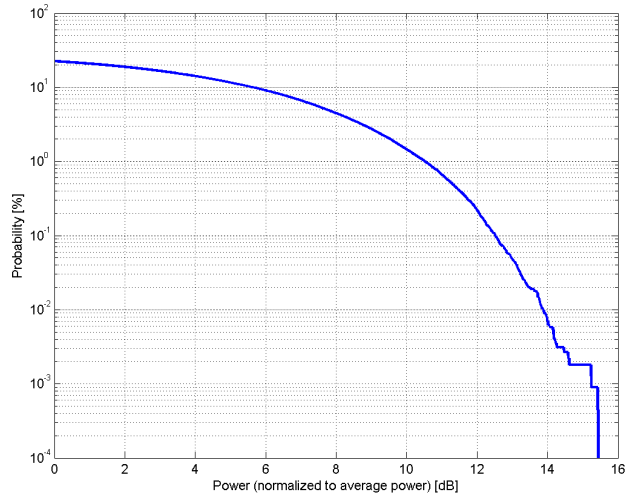
Time Domain

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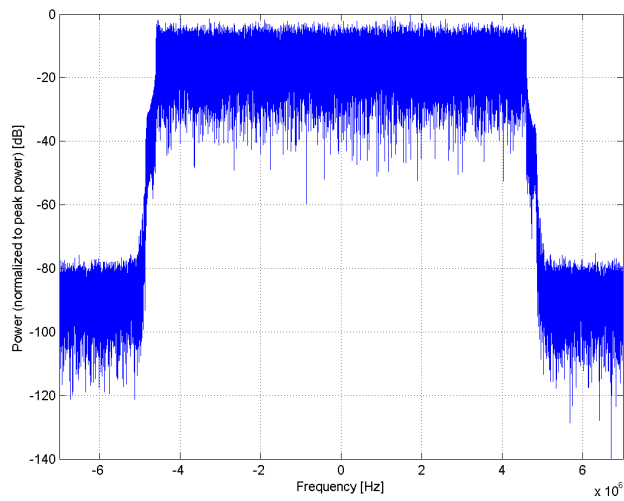
| | |
|-------------------------|--|
| Name: | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) |
| Group: | WiMAX |
| UID: | 10303-AAA |
| PAR: ¹ | 12.52 dB |
| MIF: ² | -0.53 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Detailed Specification: | Transmission: OFDMA DL:UL Symbols Ratio: 31:15 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: 64QAM(CTC) 5/6 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 2 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 15 traffic symbols UL Zone Types: PUSC |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

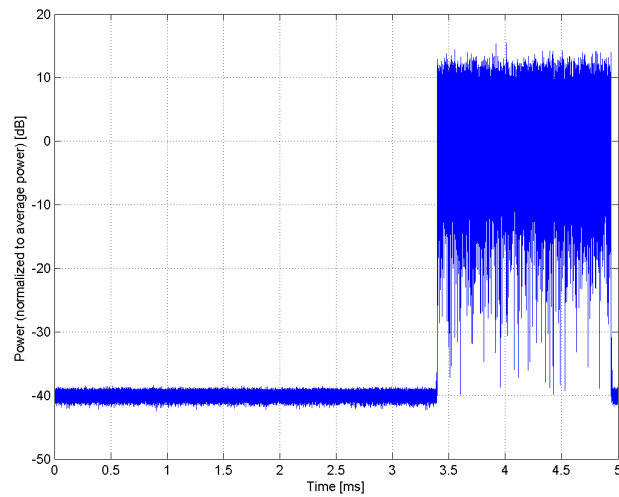
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

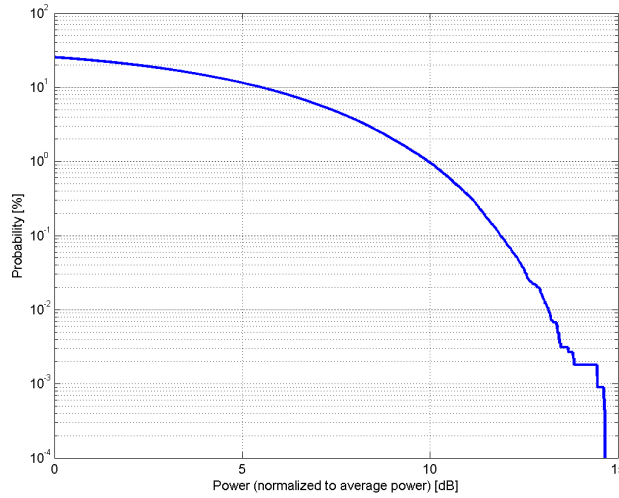


Time Domain

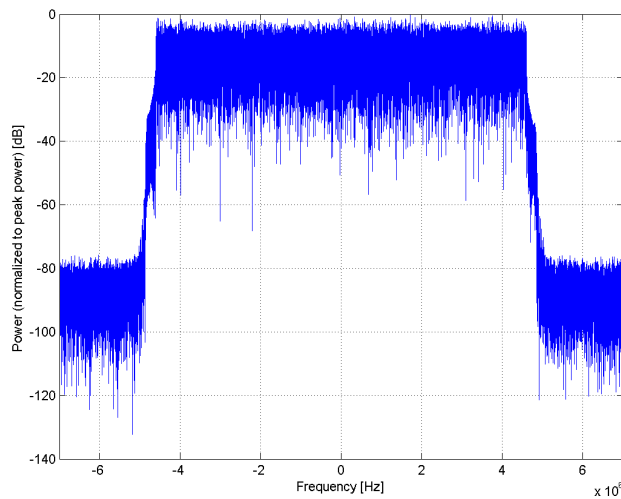
| | |
|-------------------------|---|
| Name: | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) |
| Group: | WiMAX |
| UID: | 10304-AAA |
| PAR: ¹ | 11.86 dB |
| MIF: ² | -1.39 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) |
| Category: | IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA |
| Modulation: | Random amplitude modulation |
| Frequency Band: | 64-QAM |
| Detailed Specification: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Bandwidth: | Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: 64QAM(CTC)5/6 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC |
| Integration Time: | 10.0 MHz 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

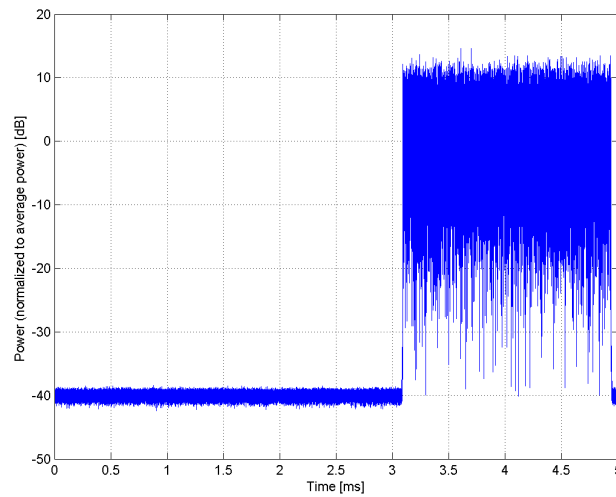
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)**

Group: WiMAX
UID: 10305-AAA

PAR: ¹ **15.24 dB**
MIF: ² **1.74 dB**

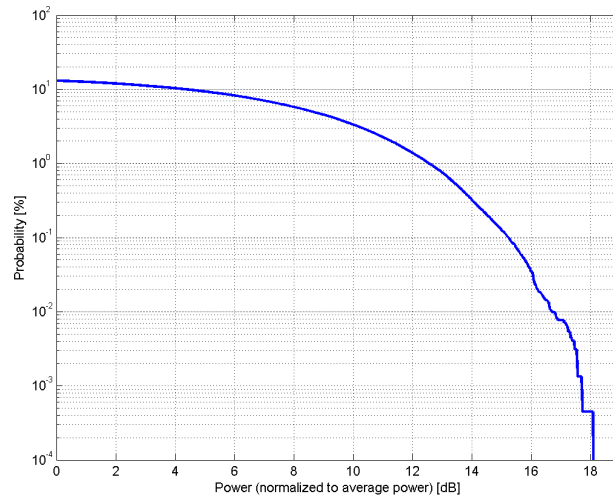
Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)

Band Class 3 (2496.0-2690.0 MHz, 20076)
Band Class 5 (3400.0-3800.0 MHz, 20077)
Band Class 6, AWS (1710.0-1755.0 MHz, 20078)

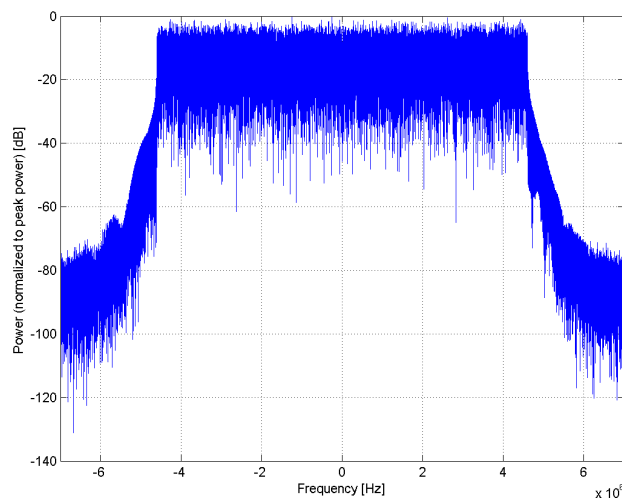
Detailed Specification: Transmission: OFDMA
DL:UL Symbols Ratio: 31:15
Frame Size: 10ms
Bandwidth: 10MHz
Modulation Scheme: 64QAM(CTC) 5/6
FFT Size: 1024
Sampling Factor: 28/25
Sampling Frequency: 22.4 MHz
Oversampling Ratio: 2
Subcarrier Spacing: 10.9375 kHz
Numbers of DL Symbols active: 0
Numbers of UL Symbols active: 15 traffic symbols
UL Zone Types: PUSC
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

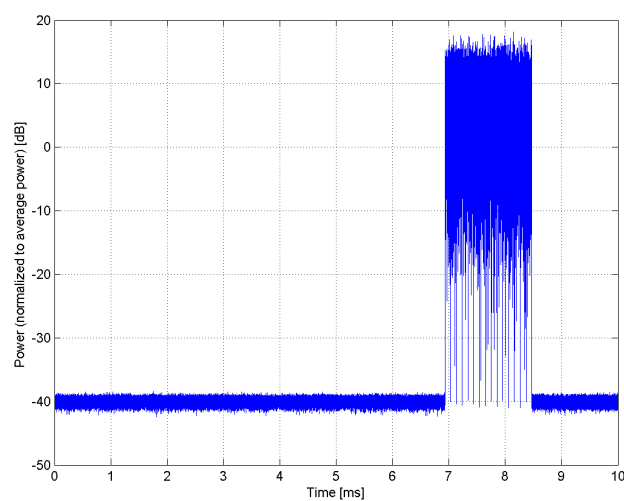
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)**

Group: WiMAX
UID: 10306-AAA

PAR: ¹ **14.67 dB**
MIF: ² **0.91 dB**

Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA

Category: Random amplitude modulation

Modulation: 64-QAM

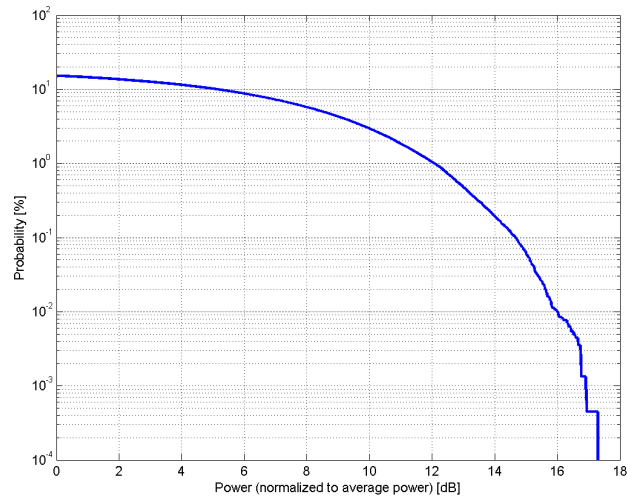
Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
Band Class 3 (2496.0-2690.0 MHz, 20076)
Band Class 5 (3400.0-3800.0 MHz, 20077)
Band Class 6, AWS (1710.0-1755.0 MHz, 20078)

Detailed Specification: Transmission: OFDMA
DL:UL Symbols Ratio: 29:18
Frame Size: 10ms
Bandwidth: 10MHz
Modulation Scheme: 64QAM(CTC) 5/6
FFT Size: 1024
Sampling Factor: 28/25
Sampling Frequency: 22.4 MHz
Oversampling Ratio: 2
Subcarrier Spacing: 10.9375 kHz
Numbers of DL Symbols active: 0
Numbers of UL Symbols active: 18 traffic symbols
UL Zone Types: PUSC

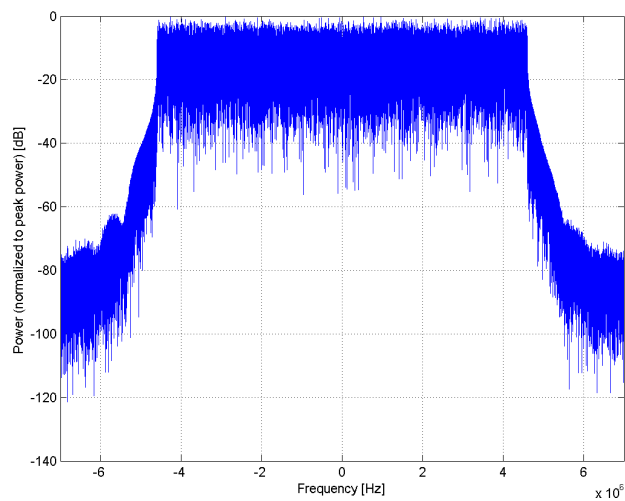
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

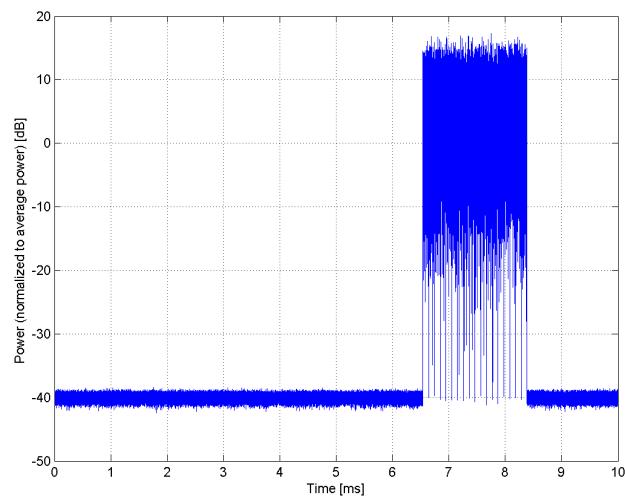
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)**

Group: WiMAX
UID: 10307-AAA

PAR: ¹ **14.49 dB**
MIF: ² **0.89 dB**

Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA

Category: Random amplitude modulation

Modulation: QPSK

Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
Band Class 3 (2496.0-2690.0 MHz, 20076)
Band Class 5 (3400.0-3800.0 MHz, 20077)
Band Class 6, AWS (1710.0-1755.0 MHz, 20078)

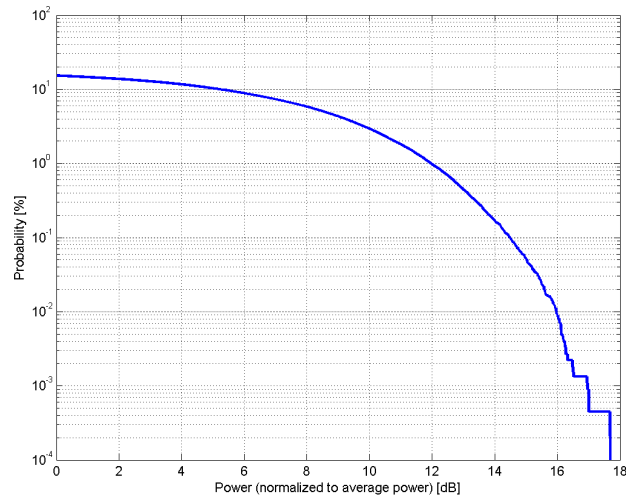
Detailed Specification: Transmission: OFDMA
DL:UL Symbols Ratio: 29:18
Frame Size: 10ms
Bandwidth: 10 MHz
Modulation Scheme: QPSK(CTC)3/4
FFT Size: 1024
Sampling Factor: 28/25
Sampling Frequency: 22.4 MHz
Oversampling Ratio: 2
Subcarrier Spacing: 10.9375 kHz
Numbers of DL Symbols active: 0
Numbers of UL Symbols active: 18 traffic symbols
UL Zone Types: PUSC

Bandwidth: 10.0 MHz

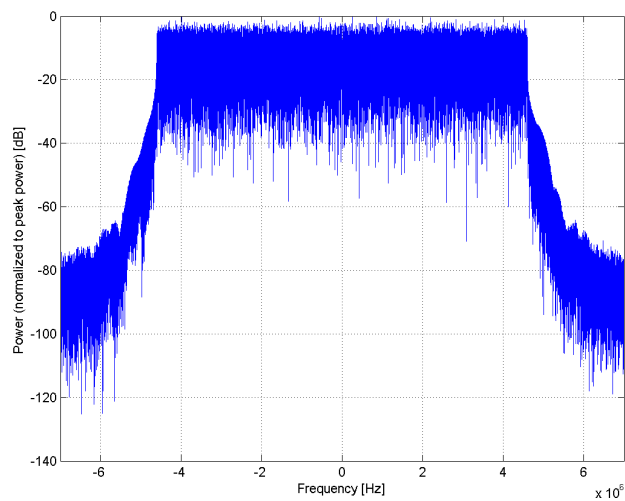
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

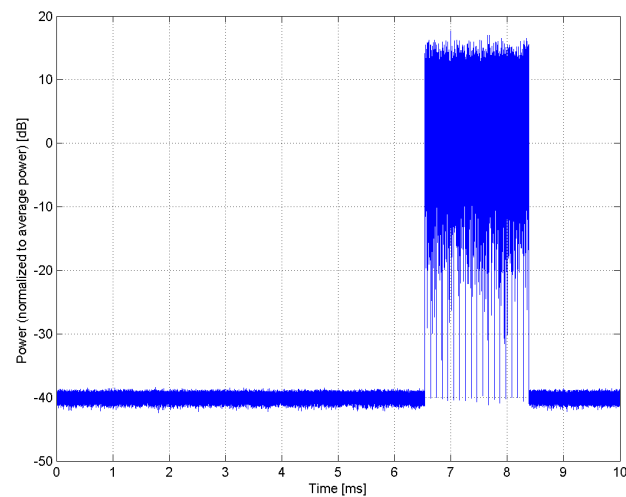
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



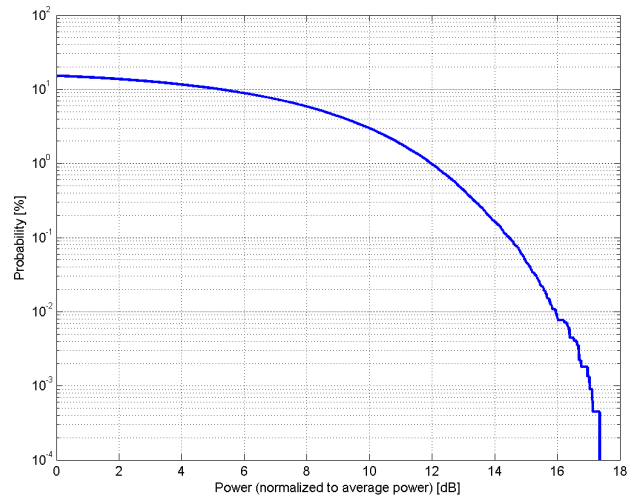
Time Domain

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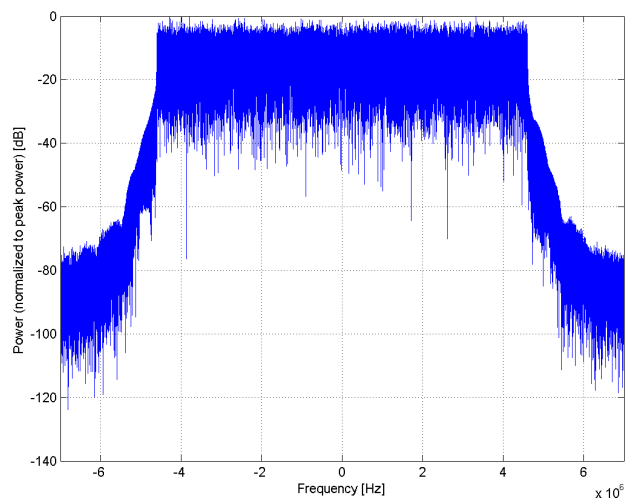
| | |
|-------------------------|--|
| Name: | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) |
| Group: | WiMAX |
| UID: | 10308-AAA |
| PAR: ¹ | 14.46 dB |
| MIF: ² | 0.91 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) |
| Category: | IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA |
| Modulation: | Random amplitude modulation |
| Frequency Band: | 16-QAM |
| Detailed Specification: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Bandwidth: | Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 10ms Bandwidth: 10 MHz Modulation Scheme: 16QAM(CTC)3/4 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 22.4 MHz Oversampling Ratio: 2 Subcarrier Spacing: 10.9375 kHz Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC |
| Integration Time: | 10.0 MHz 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

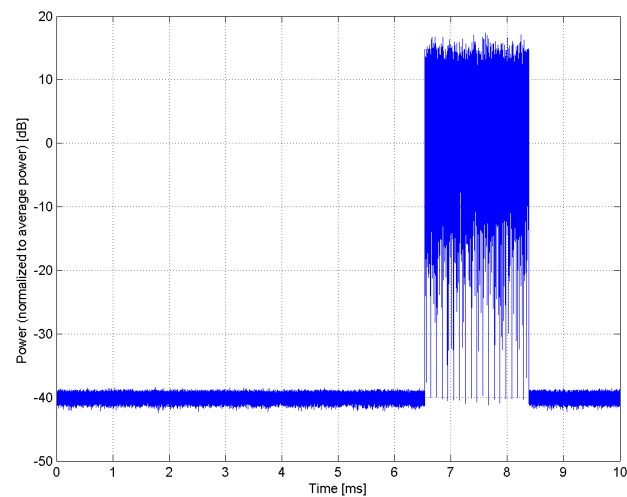
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



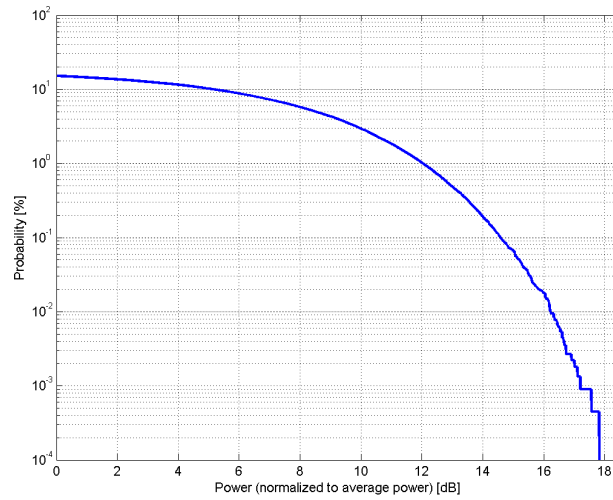
Time Domain

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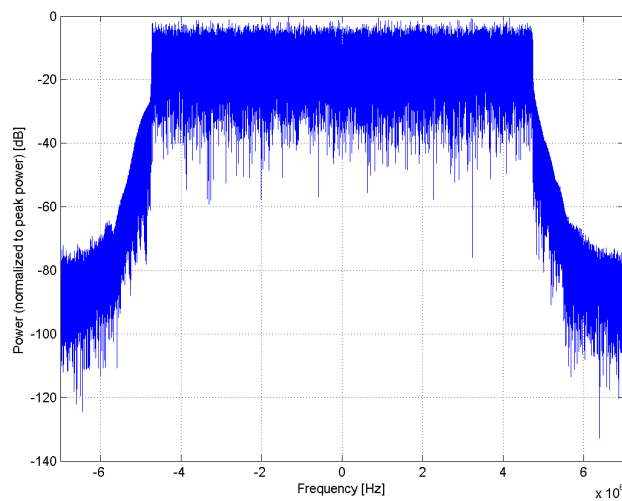
| | |
|-------------------------|---|
| Name: | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) |
| Group: | WiMAX |
| UID: | 10309-AAA |
| PAR: ¹ | 14.58 dB |
| MIF: ² | 0.90 dB |
| Standard Reference: | FCC 802.16e WiMax SARGuidance v01 (615223 D01) |
| Category: | IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA |
| Modulation: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078) |
| Detailed Specification: | Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 10ms Bandwidth: 10 MHz Modulation Scheme: 16QAM(CTC)3/4 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 22.4 MHz Oversampling Ratio: 2 Subcarrier Spacing: 10.9375 kHz Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: AMC 2x3 |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

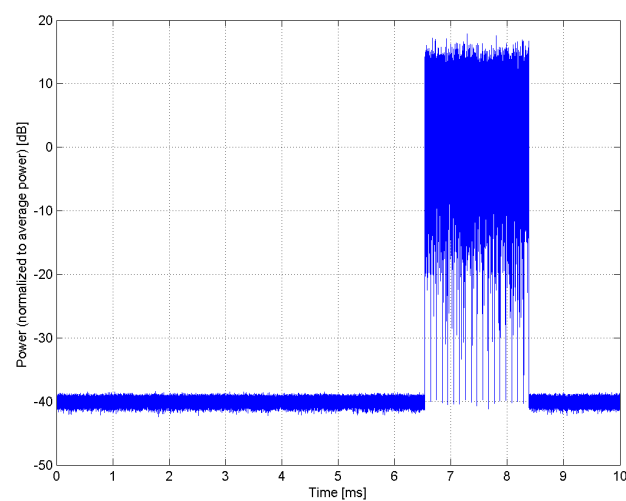
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)**

Group: WiMAX
UID: 10310-AAA

PAR: ¹ **14.57 dB**
MIF: ² **0.89 dB**

Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA

Category: Random amplitude modulation

Modulation: QPSK

Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
Band Class 3 (2496.0-2690.0 MHz, 20076)
Band Class 5 (3400.0-3800.0 MHz, 20077)
Band Class 6, AWS (1710.0-1755.0 MHz, 20078)

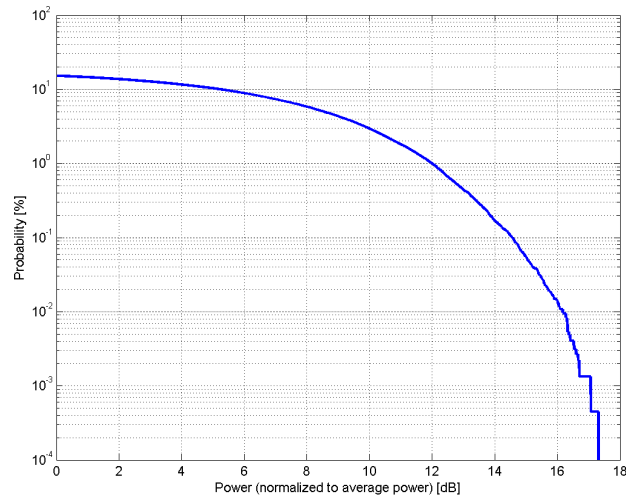
Detailed Specification: Transmission: OFDMA
DL:UL Symbols Ratio: 29:18
Frame Size: 10ms
Bandwidth: 10 MHz
Modulation Scheme: QPSK(CTC)3/4
FFT Size: 1024
Sampling Factor: 28/25
Sampling Frequency: 22.4 MHz
Oversampling Ratio: 2
Subcarrier Spacing: 10.9375 kHz
Numbers of DL Symbols active: 0
Numbers of UL Symbols active: 18 traffic symbols
UL Zone Types: AMC 2x3

Bandwidth: 10.0 MHz

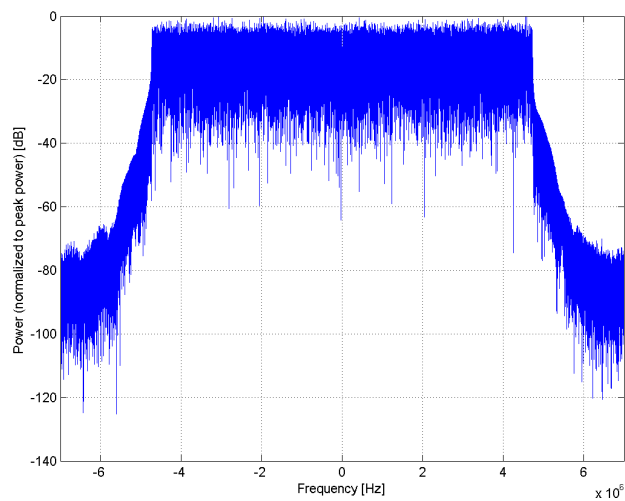
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

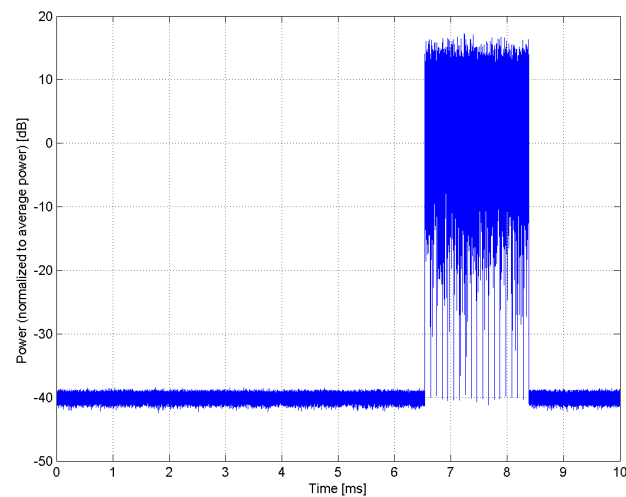
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



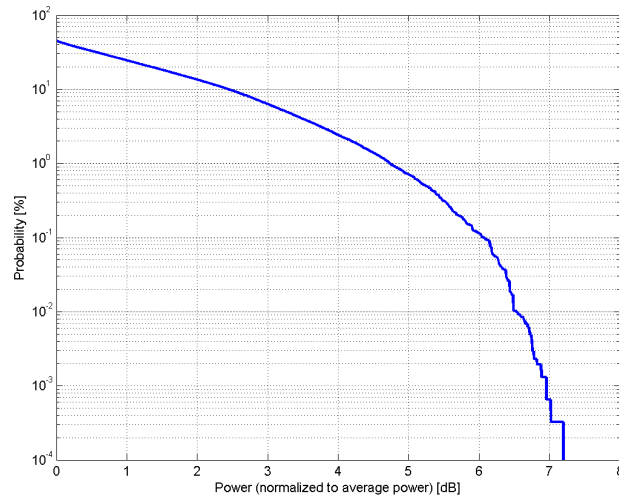
Time Domain

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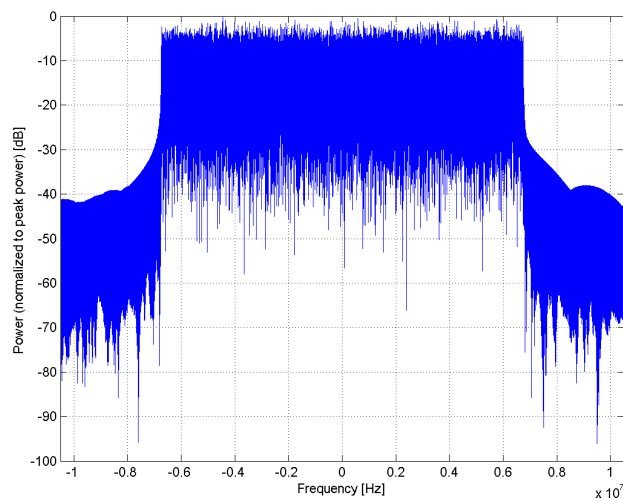
| | |
|-------------------------|--|
| Name: | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) |
| Group: | LTE-FDD |
| UID: | 10311-AAE |
| PAR: ¹ | 6.06 dB |
| MIF: ² | -20.11 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band 1 (1920.0 - 1980.0 MHz) Band 2 (1850.0 - 1910.0 MHz) Band 3 (1710.0 - 1785.0 MHz) Band 4 (1710.0 - 1755.0 MHz) Band 7 (2500.0 - 2570.0 MHz) Band 9 (1749.9 - 1784.9 MHz) Band 10 (1710.0 - 1770.0 MHz) Band 18 (815.0 - 830.0 MHz) Band 19 (830.0 - 845.0 MHz) Band 20 (832.0 - 862.0 MHz) Band 21 (1447.9 - 1462.9 MHz) Band 22 (3410.0 - 3490.0 MHz) Band 23 (2000.0 - 2020.0 MHz) Band 25 (1850.0 - 1915.0 MHz) Band 26 (814.0 - 849.0 MHz) Band 28 (703.0 - 748.0 MHz) Band 65 (1920.0 - 2010.0 MHz) Band 66 (1710.0 - 1780.0 MHz) Band 68 (698.0 - 728.0 MHz) Band 70 (1695.0 - 1710.0 MHz) Band 71 (663.0 - 698.0 MHz) Band 74 (1427.0 - 1470.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: QPSK Data Type: UL-SCH Number RB: 75 Transport Block Size: 6712 TBS Index: 5 MCS Index: 5 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

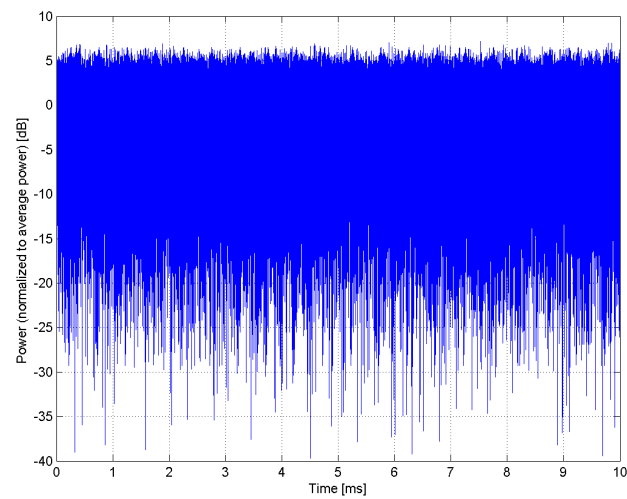
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



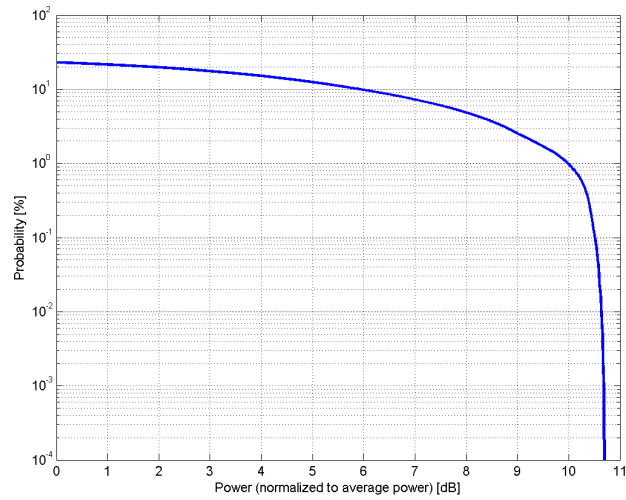
Time Domain

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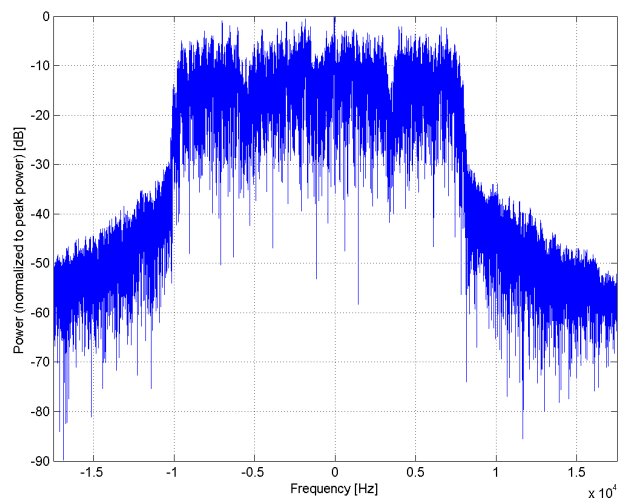
| | |
|-------------------------|---|
| Name: | iDEN 1:3 |
| Group: | iDEN |
| UID: | 10313-AAA |
| PAR: ¹ | 10.51 dB |
| MIF: ² | 1.15 dB |
| Standard Reference: | - |
| Category: | Periodic pulsed modulation |
| Modulation: | - |
| Frequency Band: | PMR 800 (806.0-825.0 MHz, 20071) PMR 900 (896.0-901.0 MHz, 20072) PMR 1450 (1453.0-1465.0 MHz, 20073) |
| Detailed Specification: | Train setting off |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 540.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

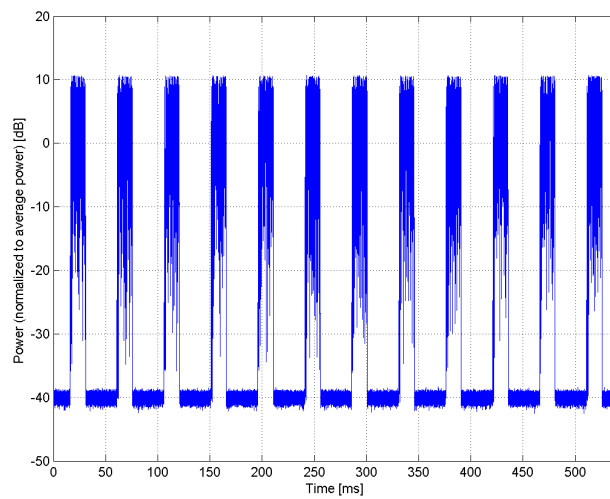
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



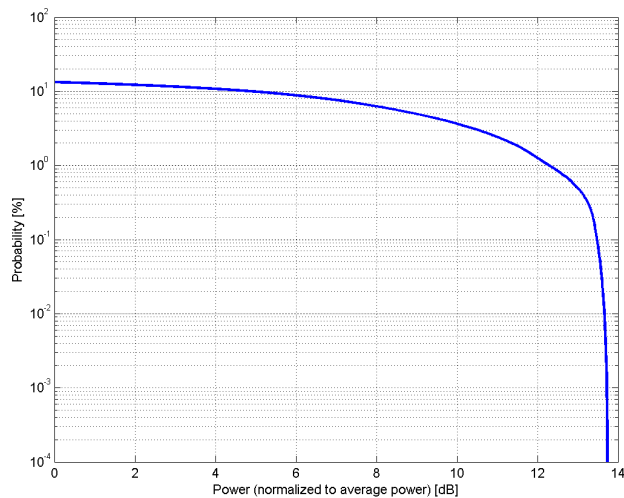
Time Domain

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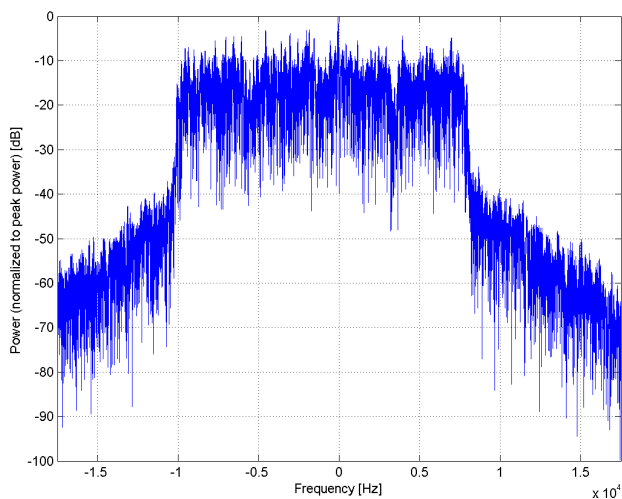
| | |
|-------------------------|---|
| Name: | iDEN 1:6 |
| Group: | iDEN |
| UID: | 10314-AAA |
| PAR: ¹ | 13.48 dB |
| MIF: ² | 4.03 dB |
| Standard Reference: | - |
| Category: | Periodic pulsed modulation |
| Modulation: | - |
| Frequency Band: | PMR 800 (806.0-825.0 MHz, 20071) PMR 900 (896.0-901.0 MHz, 20072) PMR 1450 (1453.0-1465.0 MHz, 20073) |
| Detailed Specification: | Train setting off |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 540.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

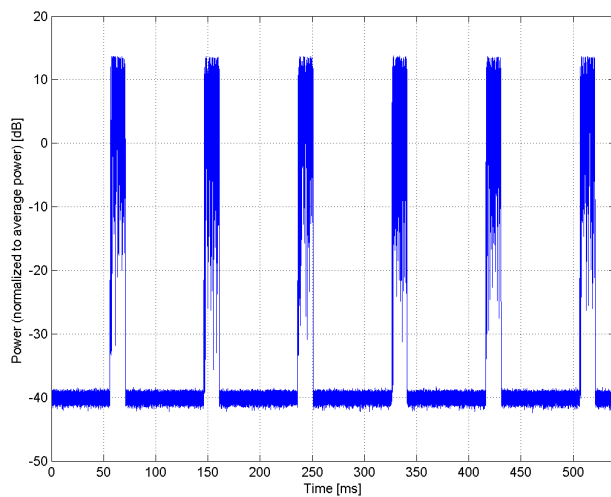
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)**

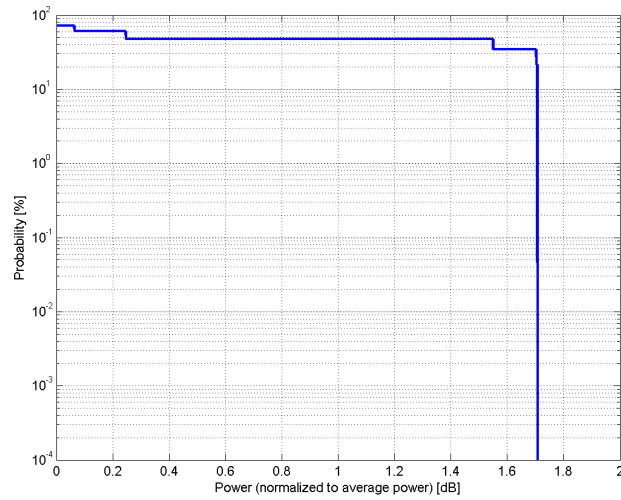
Group: WLAN
UID: 10315-AAB

PAR: ¹ **1.71 dB**
MIF: ² **-6.80 dB**

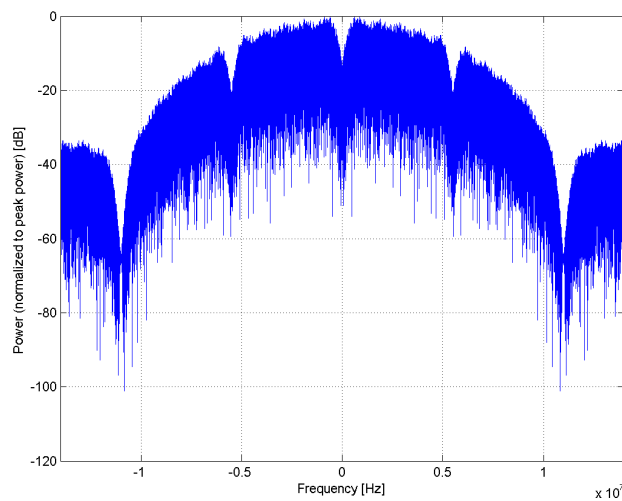
Standard Reference: IEEE 802.11b-1999 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: DBPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 96 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 1Mbps
Burst on time: 8384us
Bandwidth: 20.0 MHz
Integration Time: 8.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

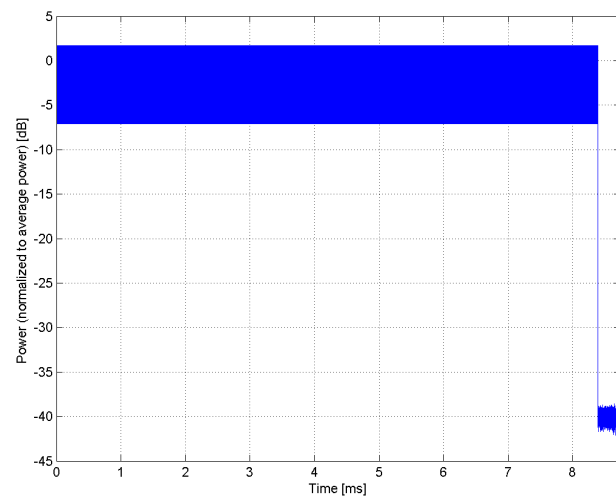
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)**

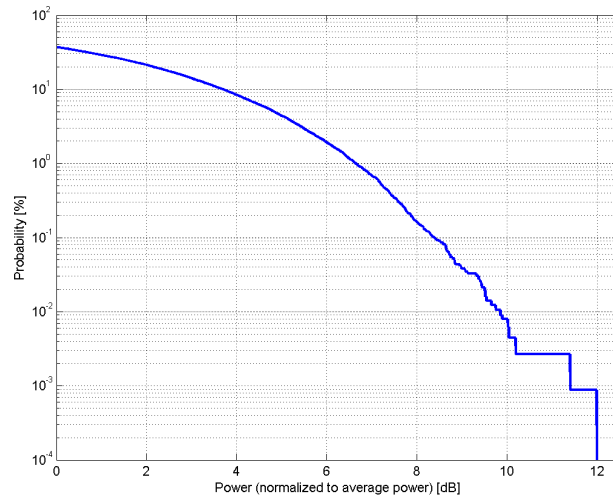
Group: WLAN
UID: 10316-AAB

PAR: ¹ **8.36 dB**
MIF: ² **-9.82 dB**

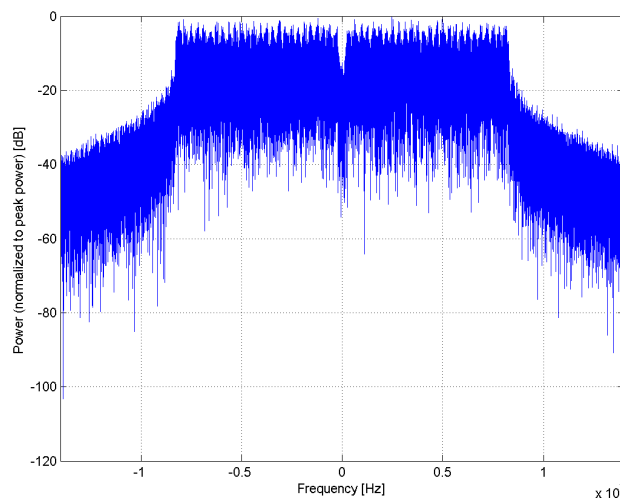
Standard Reference: IEEE 802.11g-2003 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 96 %
PSDU length: 1000 bytes
Frame format: ERP-OFDM
Data Rate: 6Mbps
Burst on time: 1360us
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

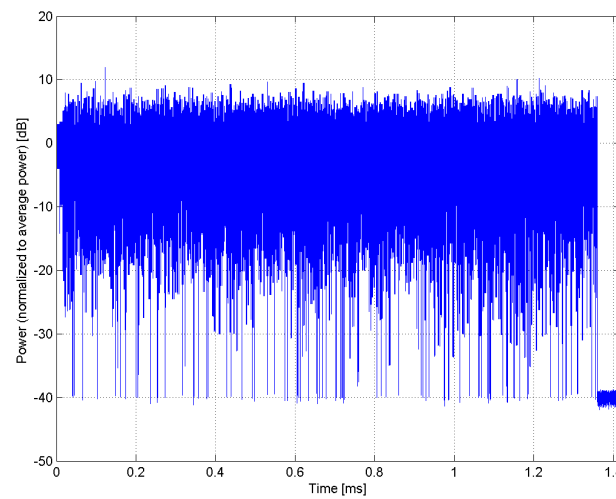
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)**

Group: WLAN
UID: 10317-AAE

PAR: ¹ **8.36 dB**
MIF: ² **-9.82 dB**

Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

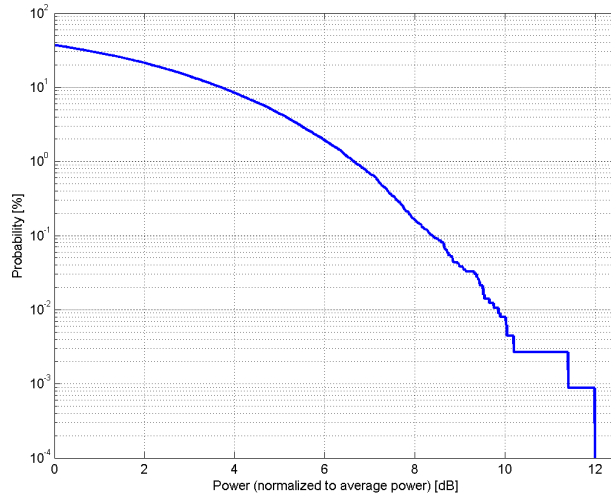
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 96%
PSDU length: 1000 bytes
Data Rate: 6Mbps
Burst on time: 1360us

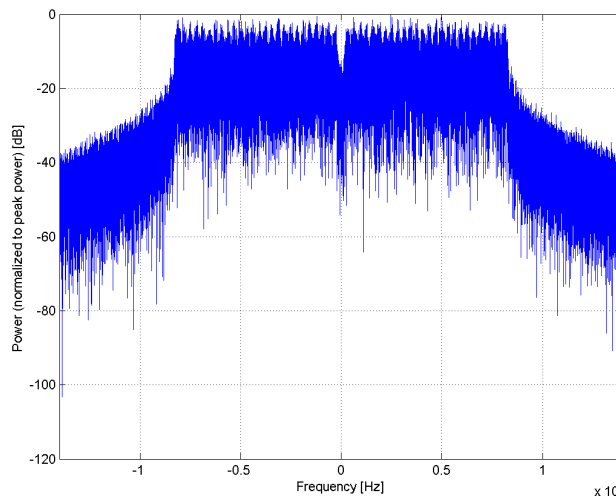
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

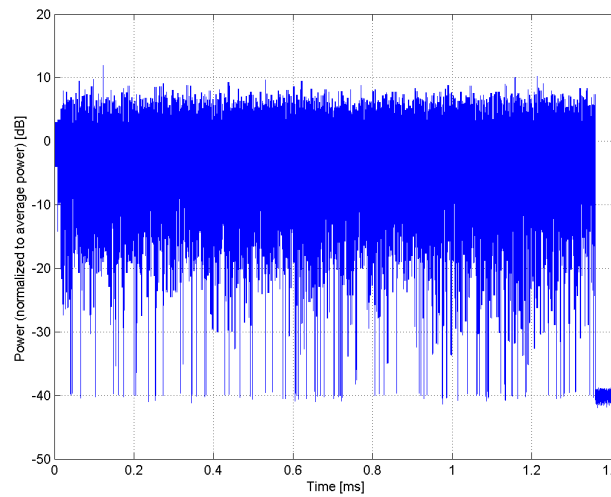
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)**

Group: WLAN
UID: 10400-AAF

PAR: ¹ **8.37 dB**
MIF: ² **-17.01 dB**

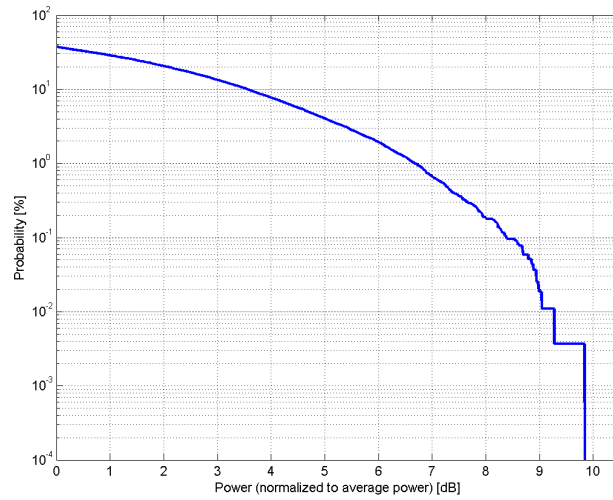
Standard Reference: -
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band:
WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 5
Number of spatial streams: 1
MPDU length: 4096

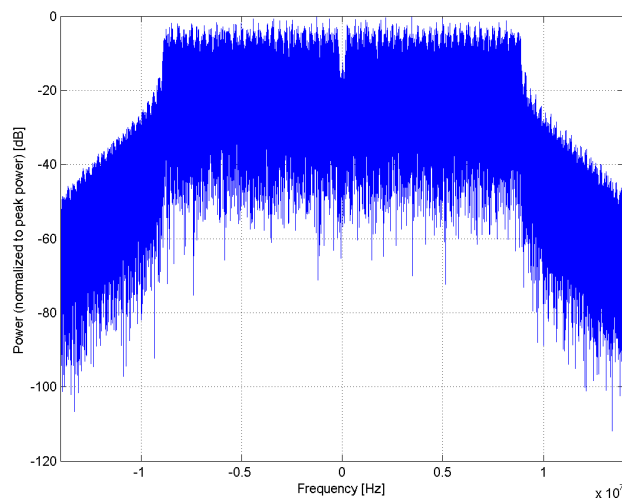
Bandwidth: 20.0 MHz
Integration Time: 6.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

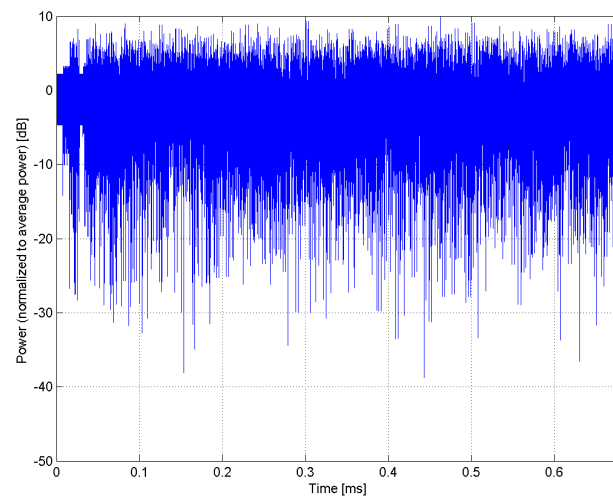
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)**

Group: WLAN
UID: 10401-AAF

PAR: ¹ **8.60 dB**
MIF: ² **-15.53 dB**

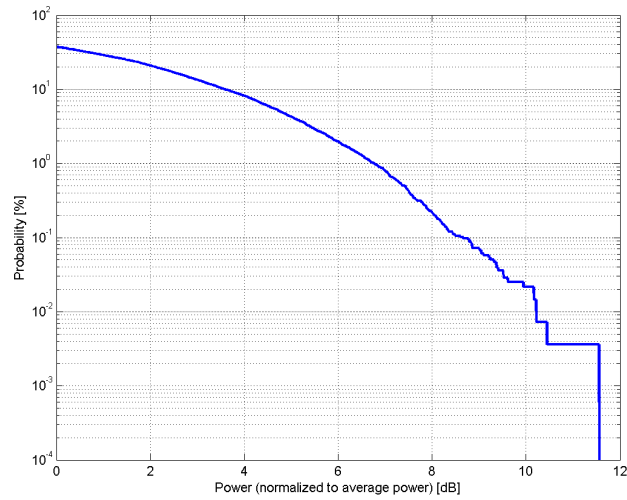
Standard Reference: -
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 5
Number of spatial streams: 1
MPDU length: 4096

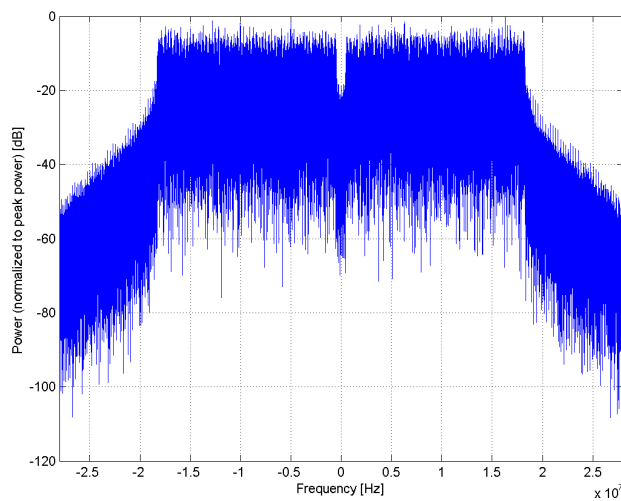
Bandwidth: 40.0 MHz
Integration Time: 3.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

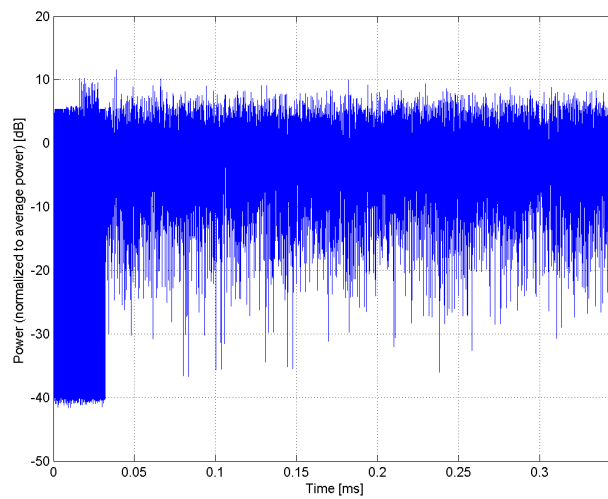
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)**

Group: WLAN
UID: 10402-AAF

PAR: ¹ **8.53 dB**
MIF: ² **-28.95 dB**

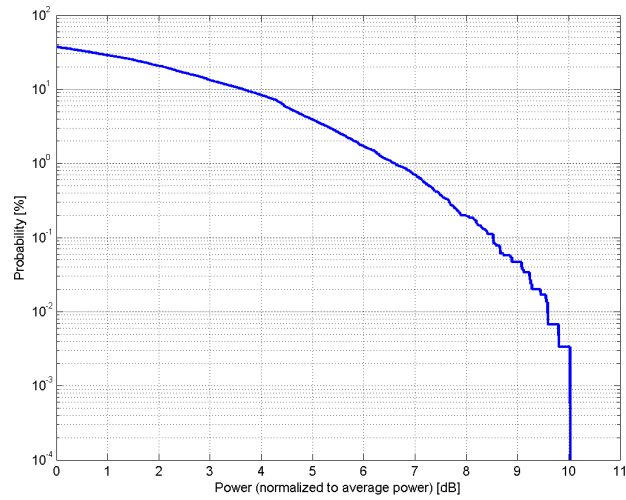
Standard Reference: -
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 5
Number of spatial streams: 1
MPDU length: 4096

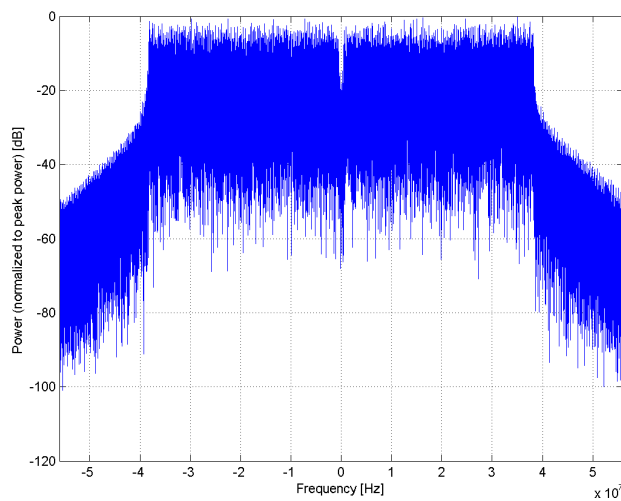
Bandwidth: 80.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

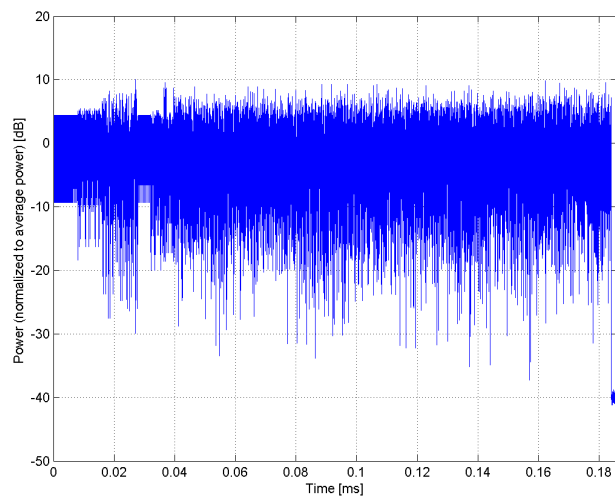
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



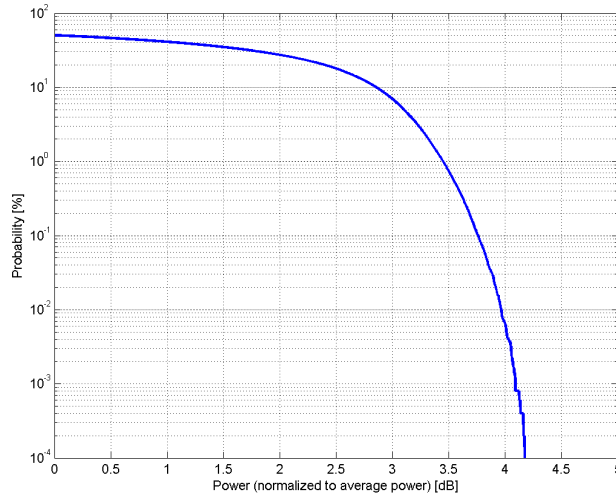
Time Domain

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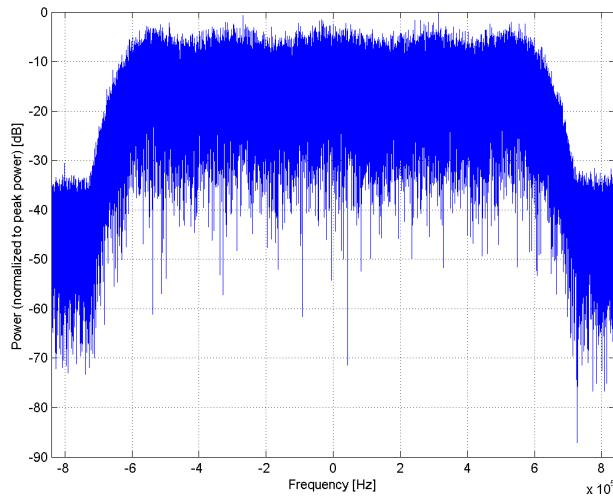
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xEV-DO, Rev. 0) |
| Group: | CDMA2000 |
| UID: | 10403-AAB |
| PAR: ¹ | 3.76 dB |
| MIF: ² | -17.67 dB |
| Standard Reference: | 941225 D01 SAR test for 3G devices v02 |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Physical Layer Configuration: Subtype 0 Reverse Data Channel: 153.6kbps Forward Traffic Channel: 2-slot version of 307.2kbps, ACK channel transmitting in all slots Access Terminal Power Control: "All bits up" |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

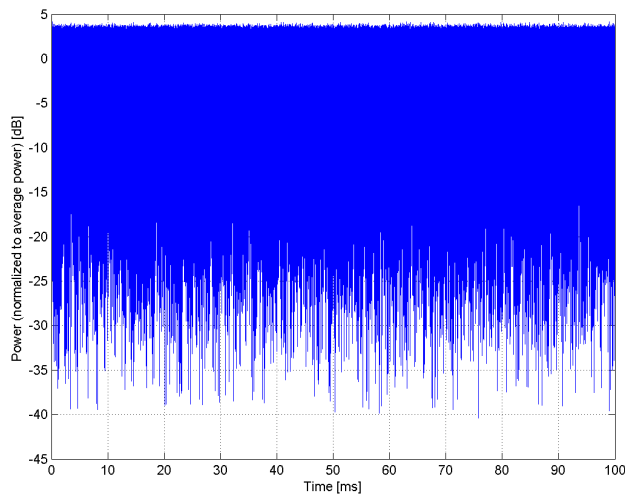
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



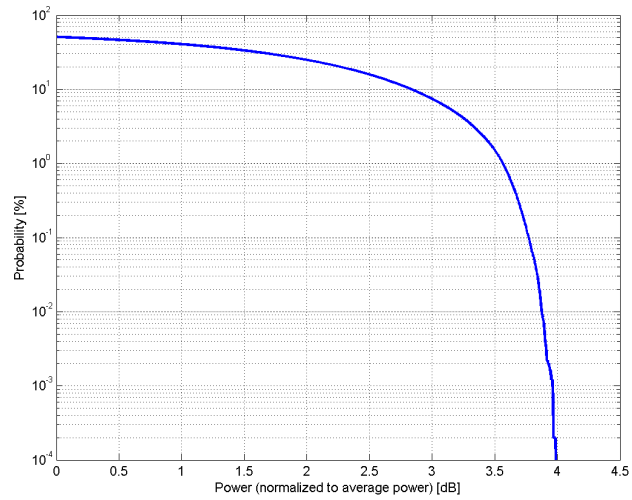
Time Domain

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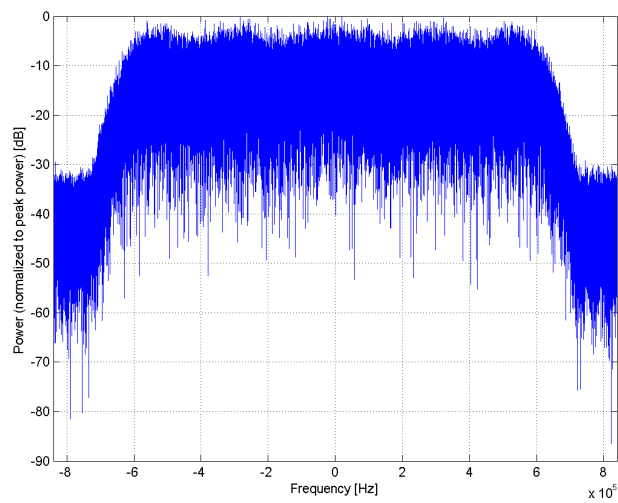
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xEV-DO, Rev. A) |
| Group: | CDMA2000 |
| UID: | 10404-AAB |
| PAR: ¹ | 3.77 dB |
| MIF: ² | -18.50 dB |
| Standard Reference: | 941225 D01 SAR test for 3G devices v02 |
| Category: | Random amplitude modulation |
| Modulation: | Q2 |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Physical Layer Configuration: Subtype 2 Reverse Data Channel Payload Size: 4096 bits, termination target of 16 slots Forward Traffic Channel: 2-slot version of 307.2kbps, ACK channel transmitting in all slots Access Terminal Power Control: "All bits up" |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

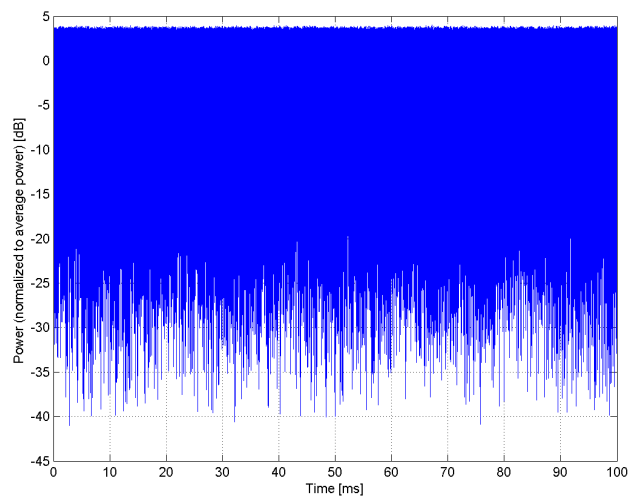
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



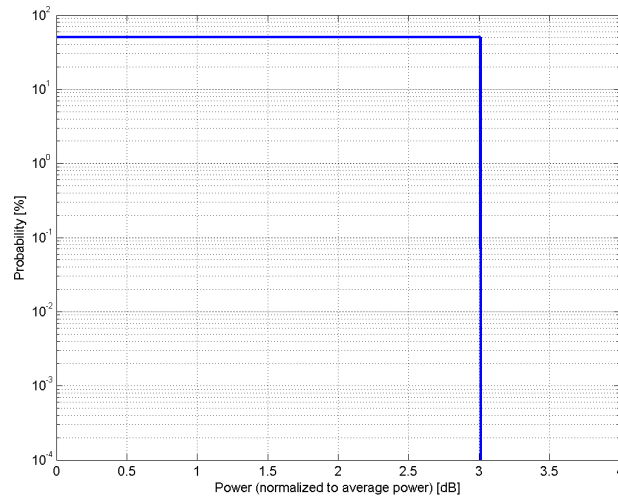
Time Domain

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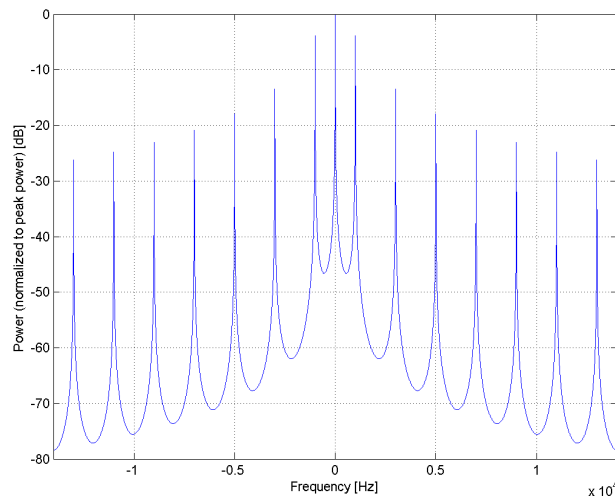
| | |
|-------------------------|--|
| Name: | MRI (Square, 1ms, 0.5ms) |
| Group: | MRI |
| UID: | 10405-AAC |
| PAR: ¹ | 3.01 dB |
| MIF: ² | -0.87 dB |
| Standard Reference: | - |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Custom Calibration Sequence Pulse Shape: rectangular Repetition Rate: 1 kHz Duty Cycle: 50% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

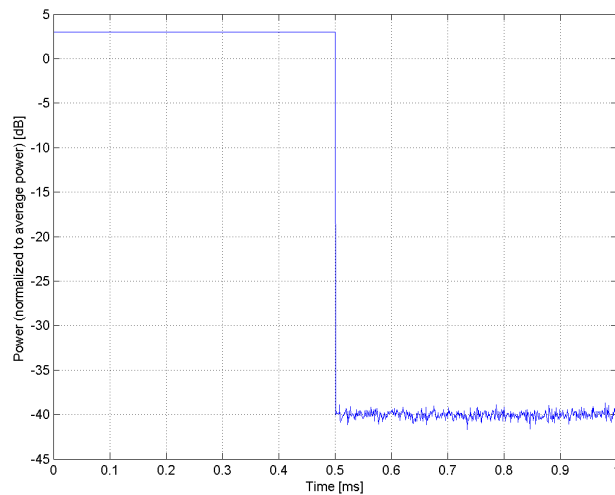
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



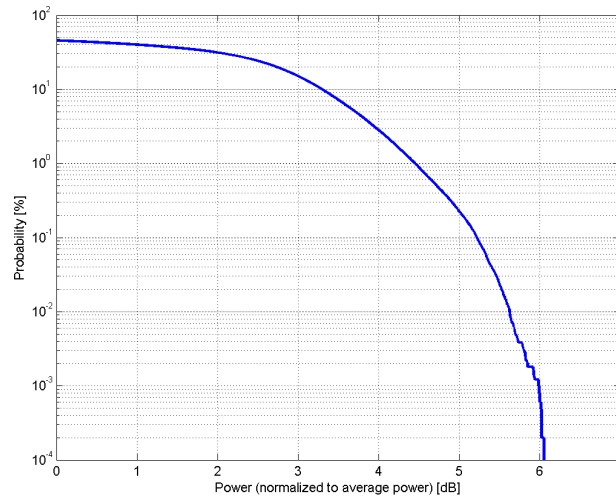
Time Domain

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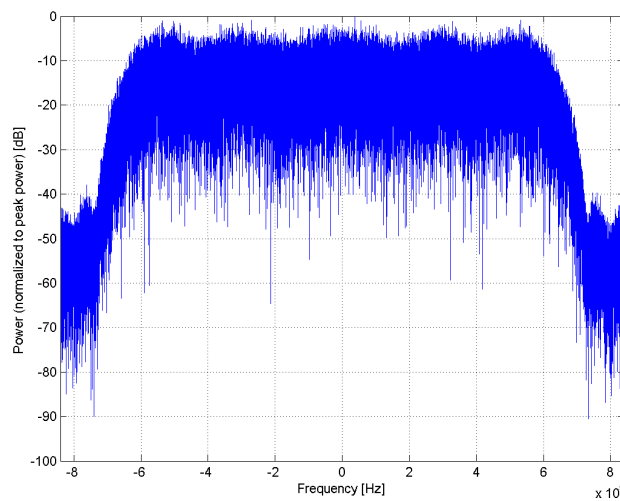
| | |
|-------------------------|--|
| Name: | CDMA2000, RC3, SO32, SCH0, Full Rate |
| Group: | CDMA2000 |
| UID: | 10406-AAB |
| PAR: ¹ | 5.22 dB |
| MIF: ² | -16.62 dB |
| Standard Reference: | 3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02) |
| Category: | Random amplitude modulation |
| Modulation: | BPSK |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Radio Configuration 3 (RC3) Service Option 32 (SO32) SCH0 enabled Full frame rate FCH level: -7.4dB Power control bits: All bits up SCH0 level: -7dB PCH level: -12dB QPCH off Protocol revision: 6 |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

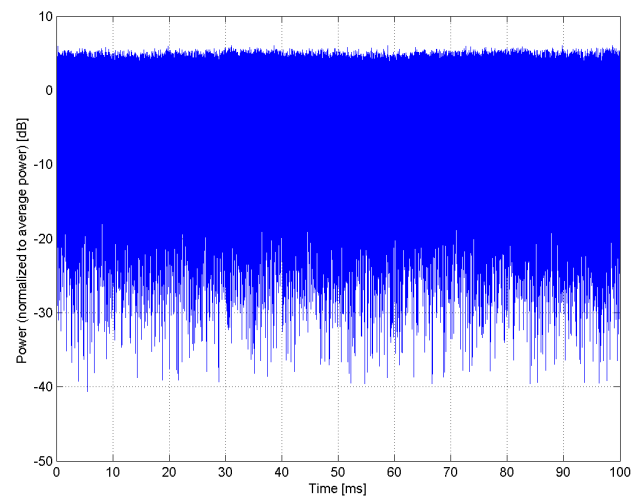
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)**

Group: LTE-TDD
UID: 10410-AAH

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

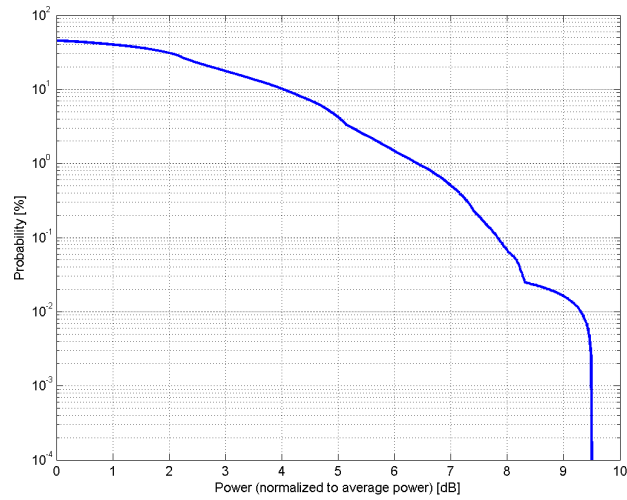
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 4
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 25
Data Type: PN9fix

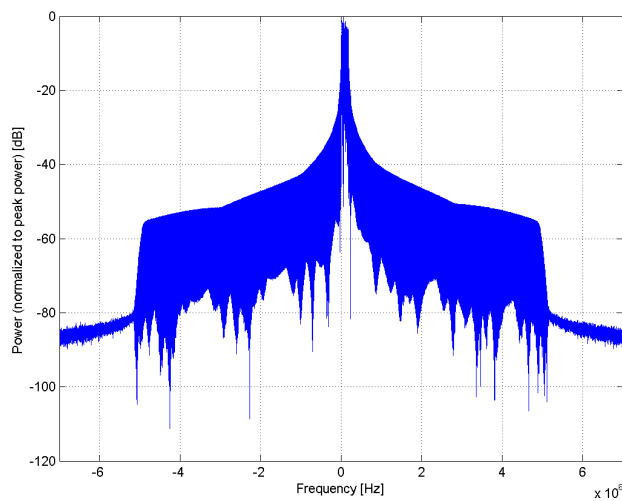
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

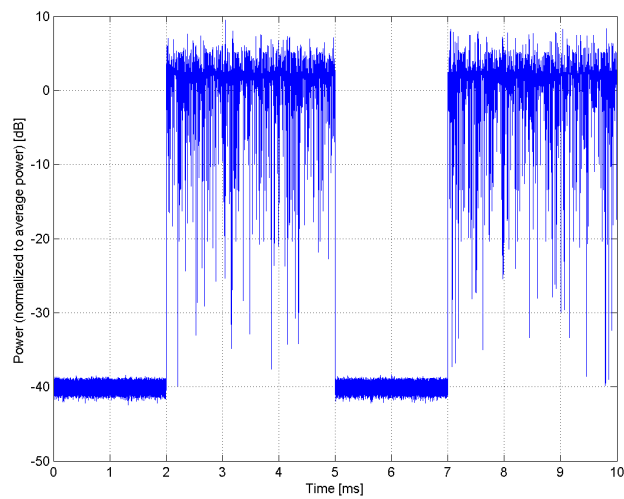
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)**

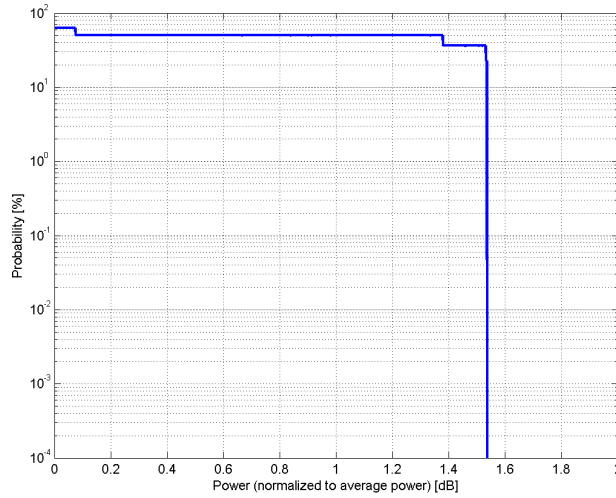
Group: WLAN
UID: 10415-AAA

PAR: ¹ **1.54 dB**
MIF: ² **-17.55 dB**

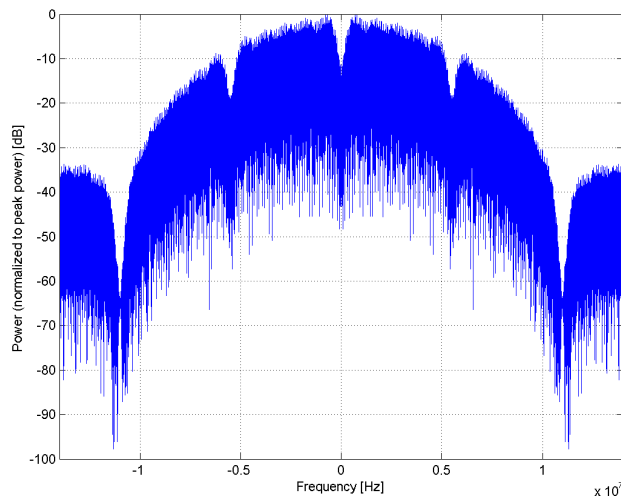
Standard Reference: IEEE 802.11-2012
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: DBPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 1Mbps
Burst on time: 8384us
Bandwidth: 20.0 MHz
Integration Time: 8.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

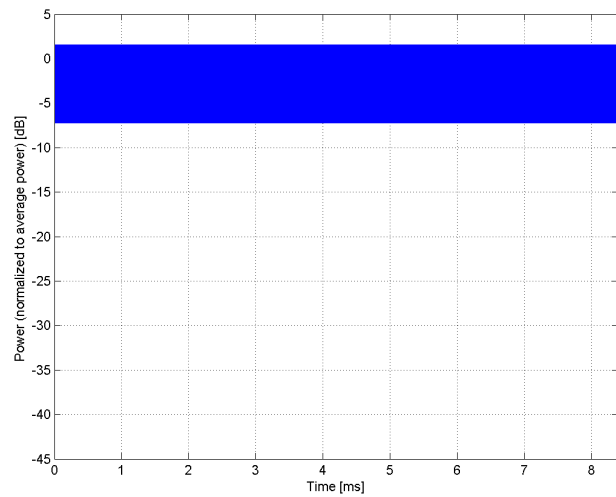
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)**

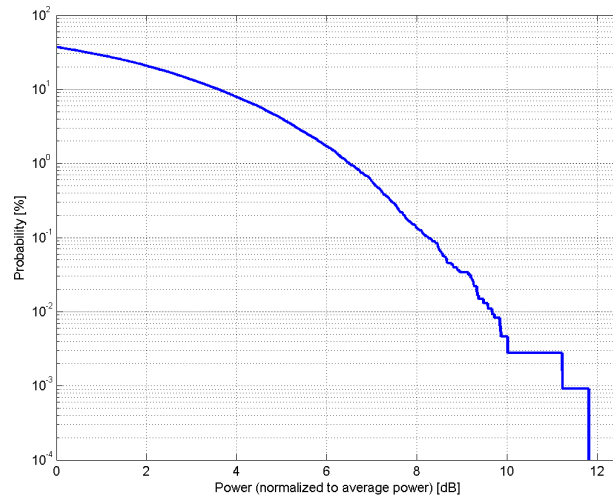
Group: WLAN
UID: 10416-AAA

PAR: ¹ **8.23 dB**
MIF: ² **-18.74 dB**

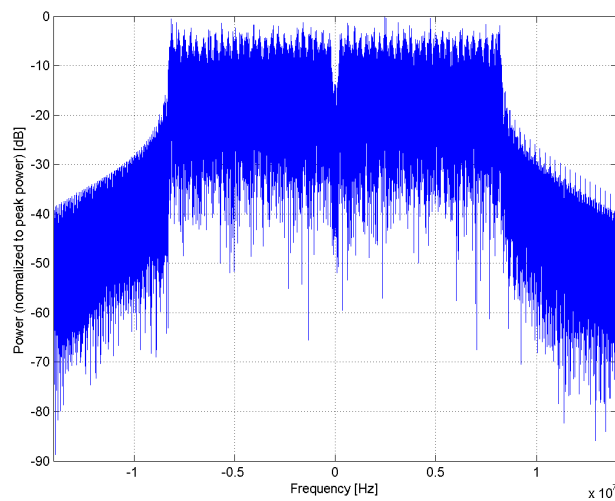
Standard Reference: IEEE 802.11 2012
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: ERP-OFDM
Data Rate: 6Mbps
Burst on time: 1360us
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

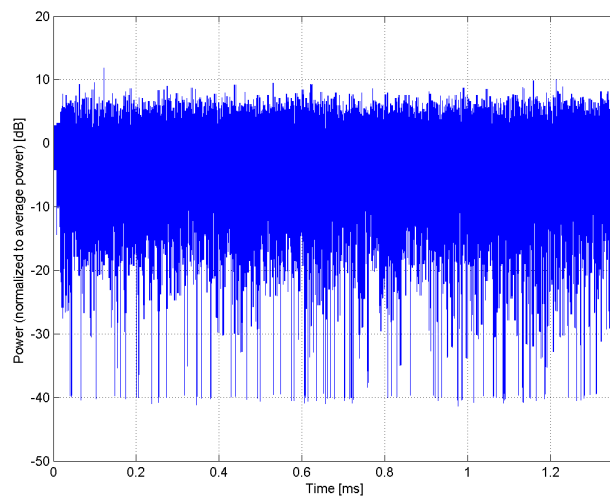
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10417-AAD

PAR: ¹ **8.23 dB**
MIF: ² **-18.74 dB**

Standard Reference: IEEE 802.11-2012
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

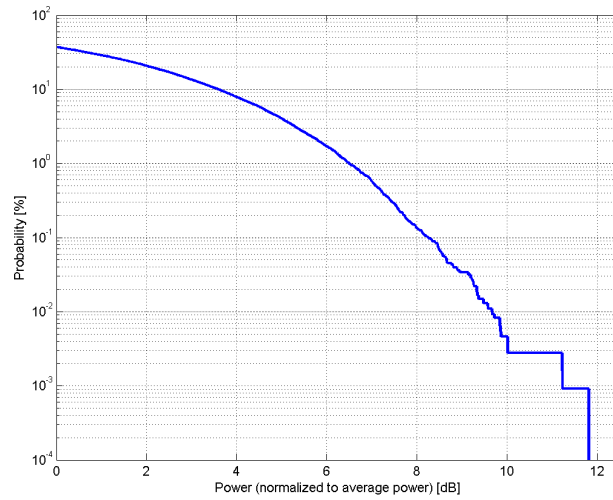
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 6Mbps
Burst on time: 1360us

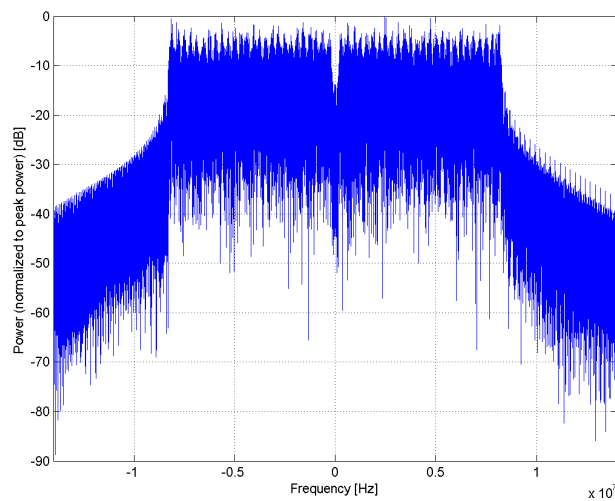
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

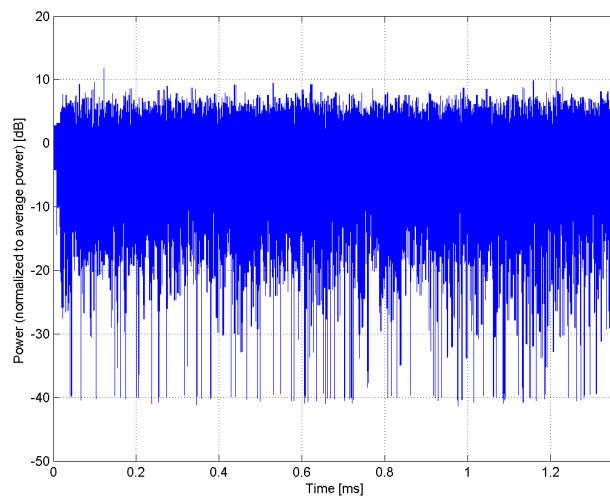
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)**

Group: WLAN
UID: 10418-AAA

PAR: ¹ **8.14 dB**
MIF: ² **-17.11 dB**

Standard Reference: IEEE 802.11-2012
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

Category: Random amplitude modulation

Modulation: BPSK

Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)

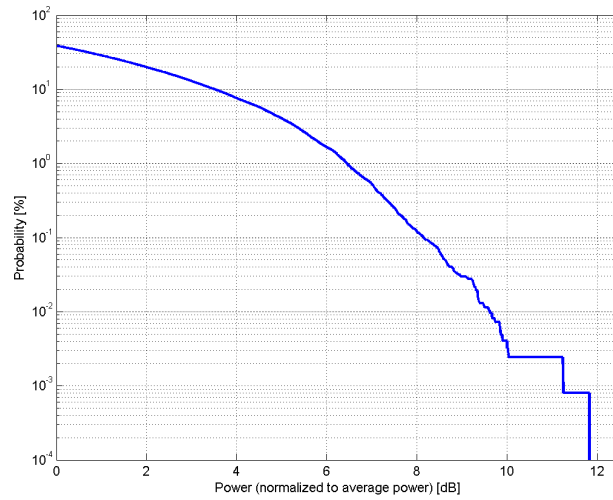
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 6Mbps
Burst on time: 1496us
Preamble type: long

Bandwidth: 20.0 MHz

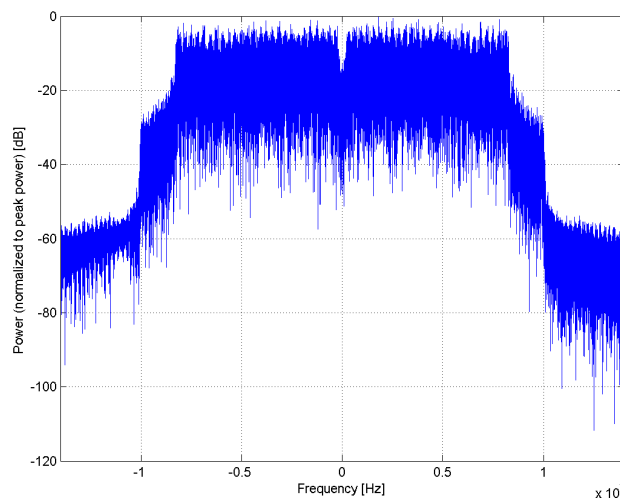
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

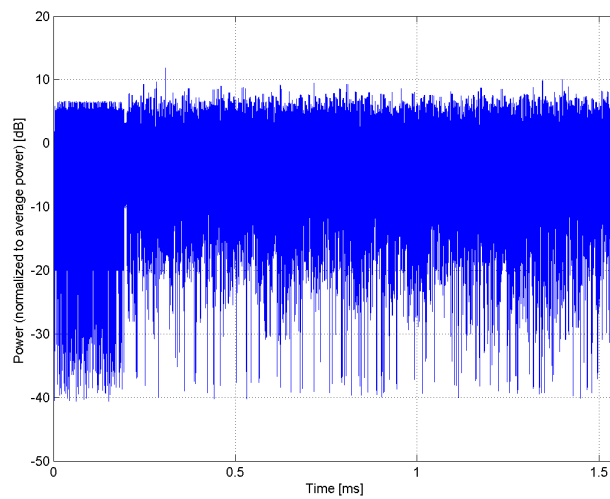
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)**

Group: WLAN
UID: 10419-AAA

PAR: ¹ **8.19 dB**
MIF: ² **-18.31 dB**

Standard Reference: IEEE 802.11-2012
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)

Category: Random amplitude modulation

Modulation: BPSK

Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)

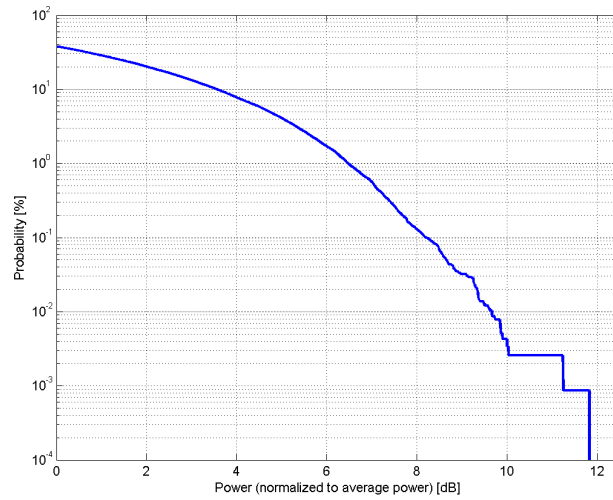
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 6Mbps
Burst on time: 1496us
Preamble type: short

Bandwidth: 20.0 MHz

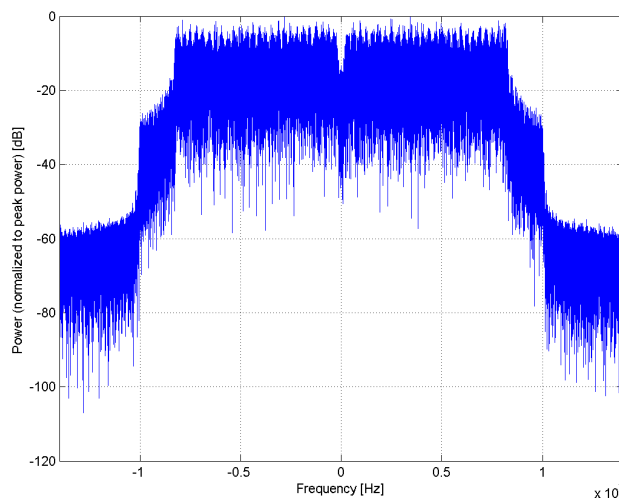
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

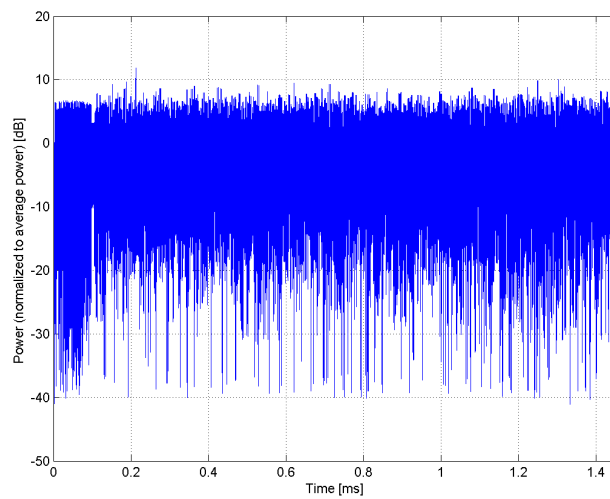
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



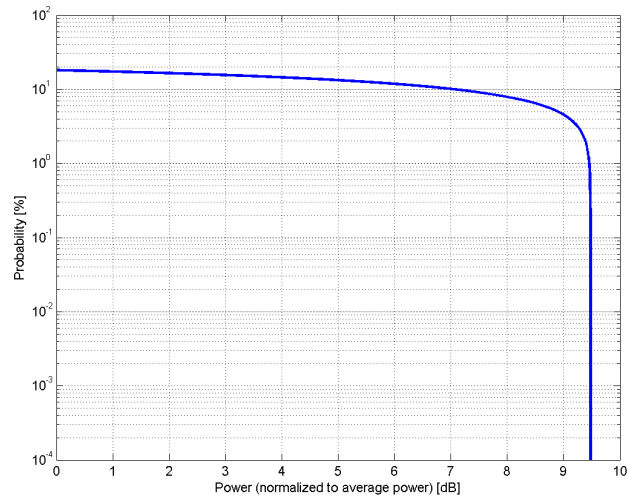
Time Domain

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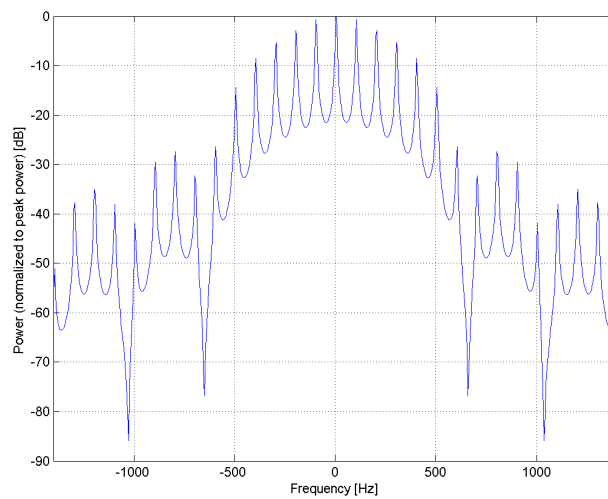
| | |
|-------------------------|---|
| Name: | FSE MRI sequence (pi Sinc, 10ms, 2.5 ms) |
| Group: | MRI |
| UID: | 10421-AAC |
| PAR: ¹ | 9.48 dB |
| MIF: ² | 1.87 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Fast Spin Echo Pulse Shape: Sinc +/- Pi Repetition Rate: 100 Hz Duty Cycle: 25% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

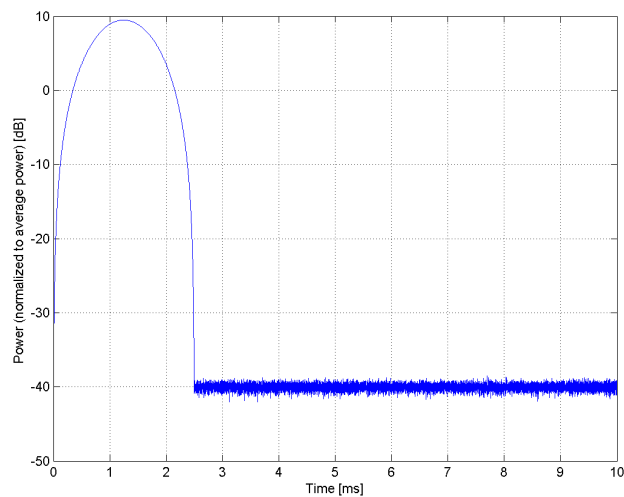
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)**

Group: WLAN
UID: 10422-AAD

PAR: ¹ **8.32 dB**
MIF: ² **-14.20 dB**

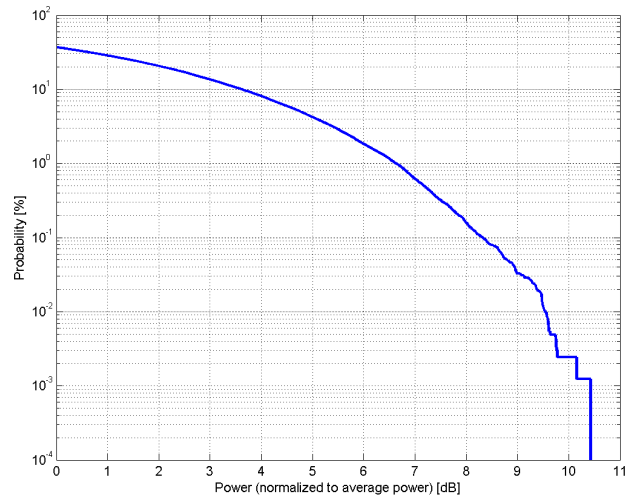
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 7.2 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 0
Guard Interval: Short
Duty Cycle: 99%

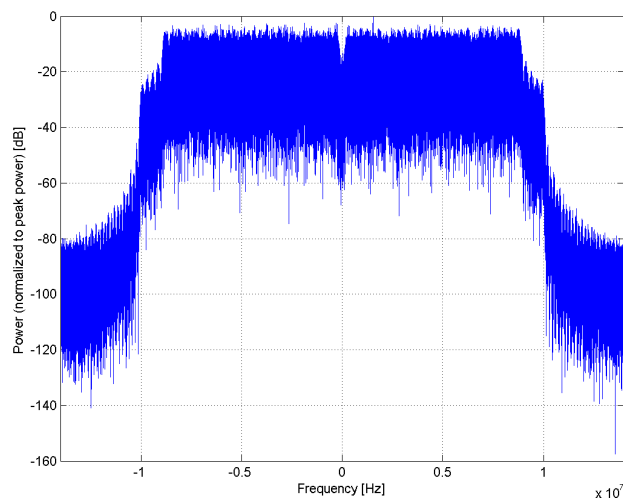
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

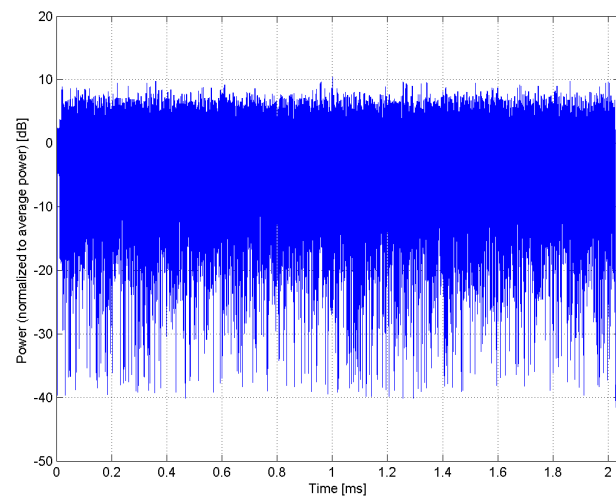
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)**

Group: WLAN
UID: 10423-AAD

PAR: ¹ **8.47 dB**
MIF: ² **-13.60 dB**

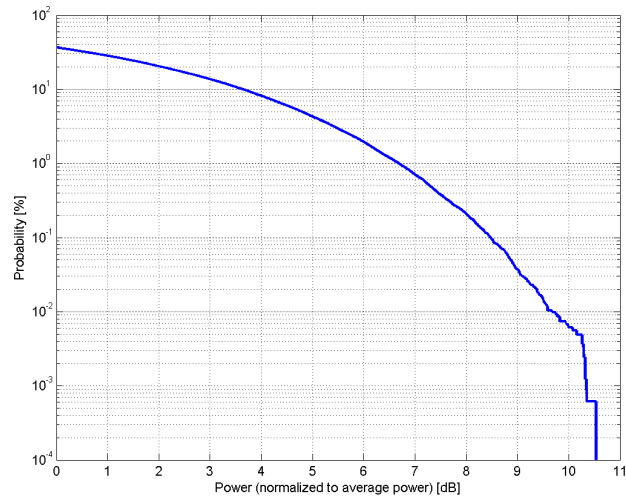
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 43.3 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 4
Guard Interval: Short
Duty Cycle: 99%

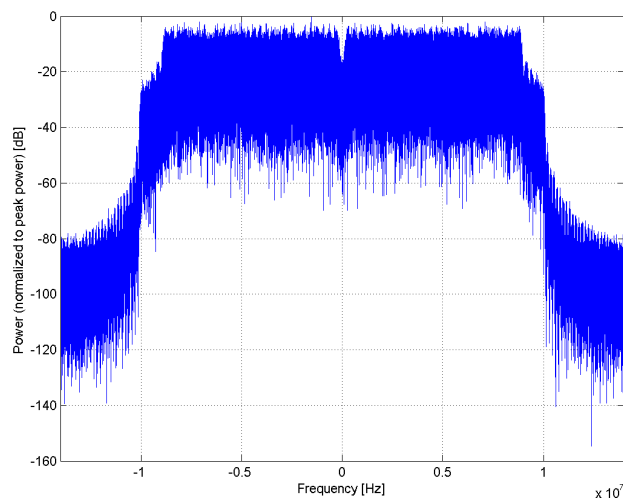
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

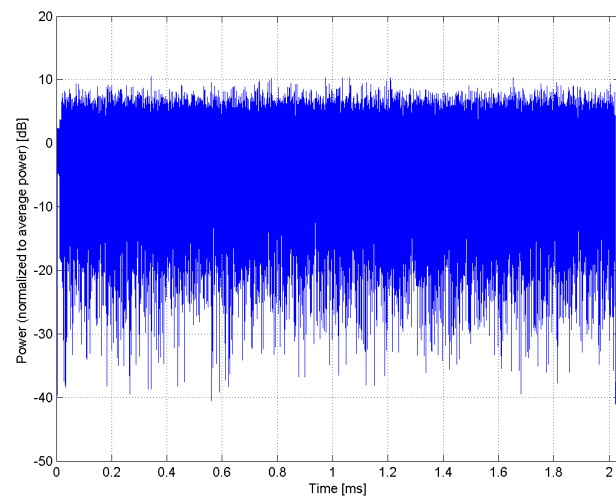
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)**

Group: WLAN
UID: 10424-AAD

PAR: ¹ **8.40 dB**
MIF: ² **-13.84 dB**

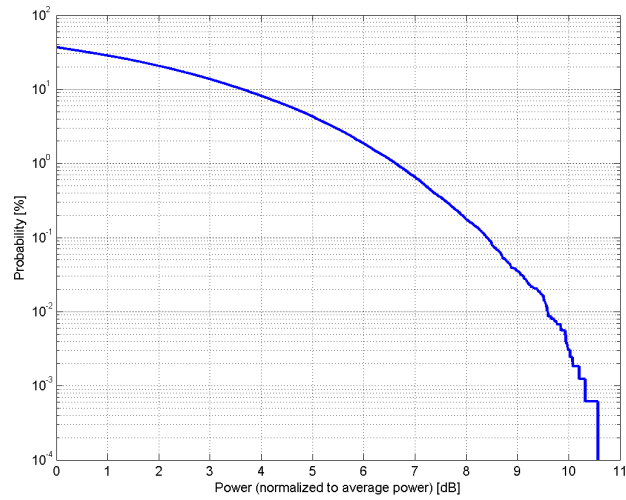
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 72.2 Mbps
PPDU Format: HT Greenfield
PPDU Type: 20 MHz
MCS Index: 7
Guard Interval: Short
Payload Length: 1767

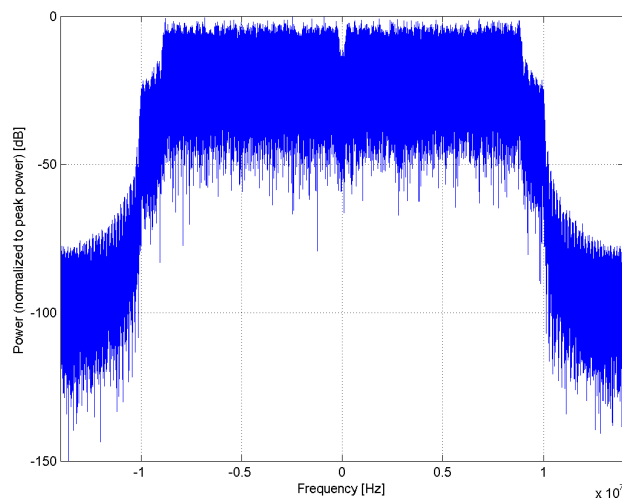
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

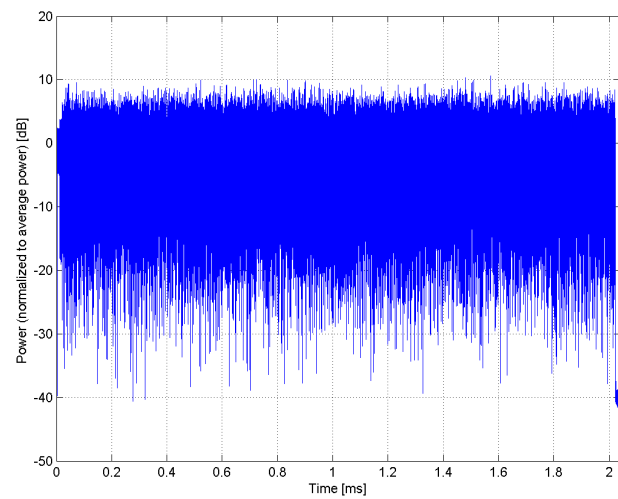
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)**

Group: WLAN
UID: 10425-AAD

PAR: ¹ **8.41 dB**
MIF: ² **-13.52 dB**

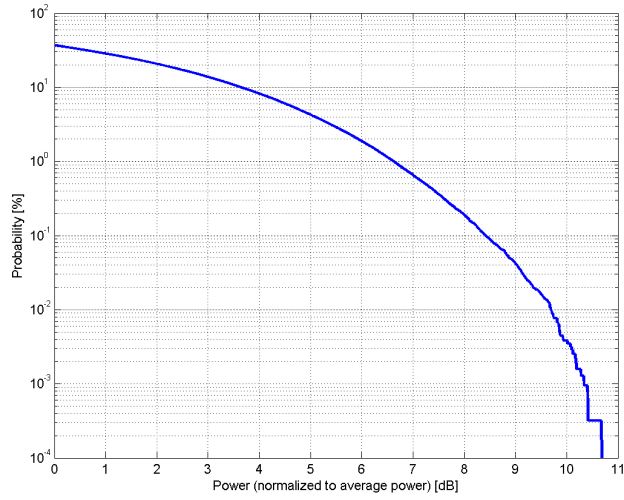
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: BPSK
Data Rate: 15 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 0
Guard Interval: Short
Payload Length: 1767

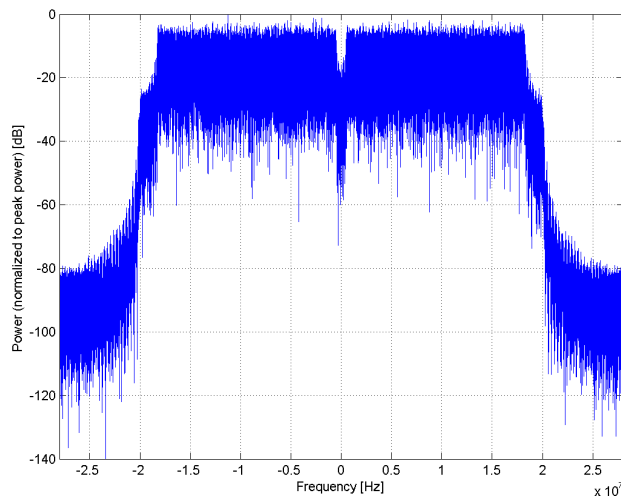
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

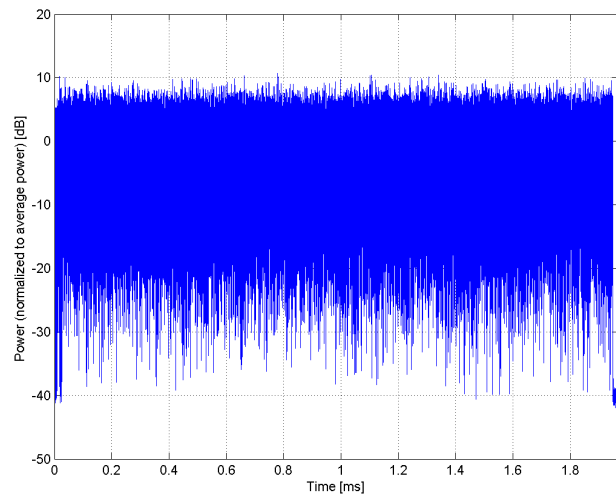
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)**

Group: WLAN
UID: 10426-AAD

PAR: ¹ **8.45 dB**
MIF: ² **-13.71 dB**

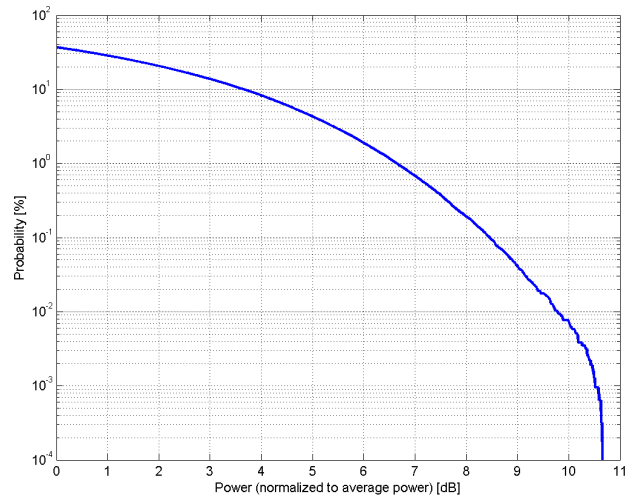
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 16-QAM
Data Rate: 90 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 4
Guard Interval: Short
Payload Length: 1767

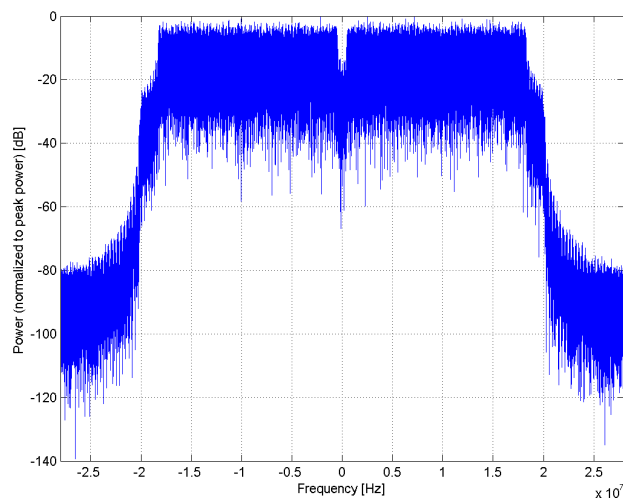
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

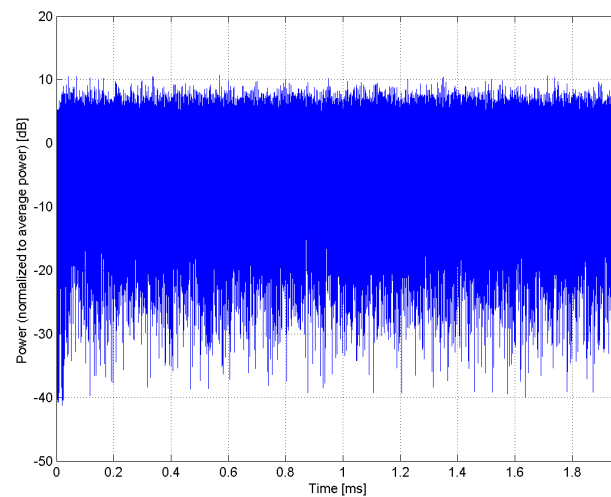
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)**

Group: WLAN
UID: 10427-AAD

PAR: ¹ **8.41 dB**
MIF: ² **-13.44 dB**

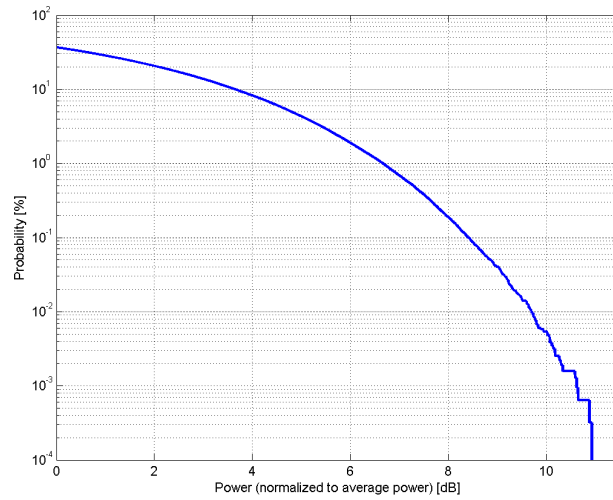
Standard Reference: IEEE 802.11n-2009
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation: 64-QAM
Data Rate: 150 Mbps
PPDU Format: HT Greenfield
PPDU Type: 40 MHz
MCS Index: 7
Guard Interval: Short
Duty Cycle: 99%

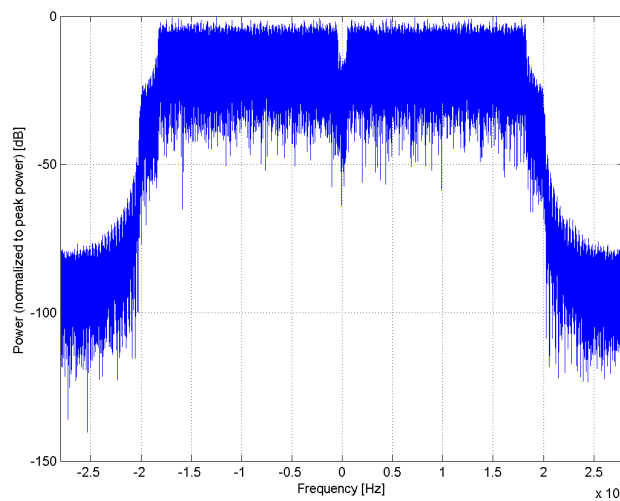
Bandwidth: 40.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

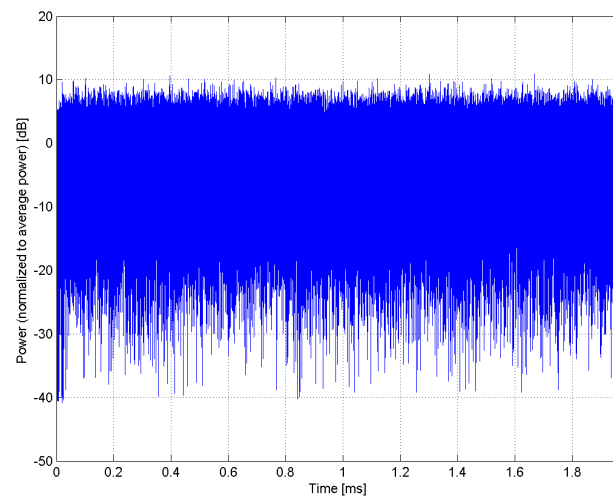
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



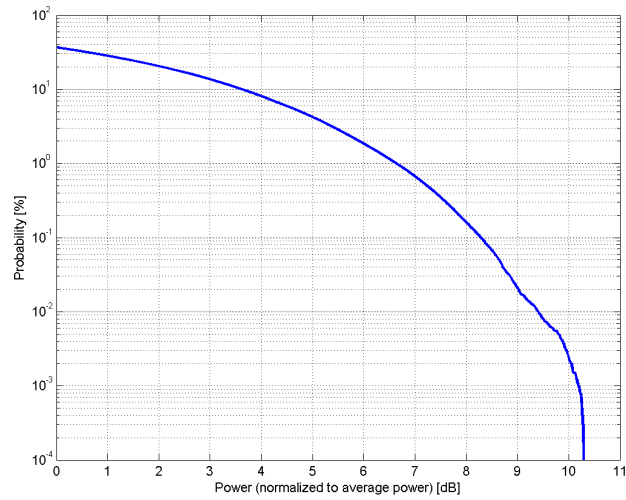
Time Domain

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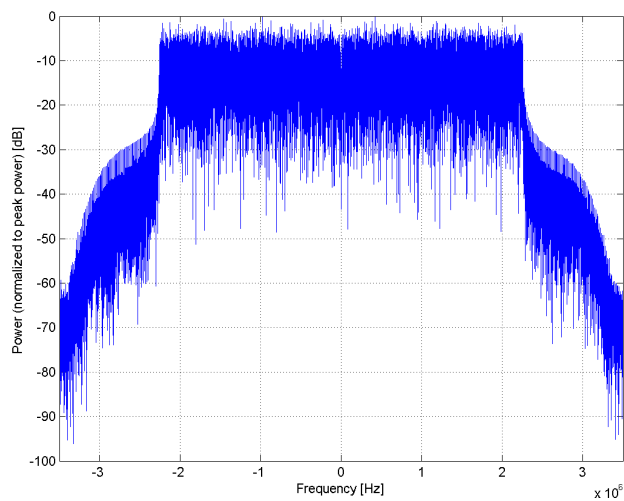
| | |
|-------------------------|---|
| Name: | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) |
| Group: | LTE-FDD |
| UID: | 10430-AAE |
| PAR: ¹ | 8.28 dB |
| MIF: ² | -16.24 dB |
| Standard Reference: | TS 36.141 V11.4 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1, Downlink (2110.0 - 2170.0 MHz) Band 2, Downlink (1930.0 - 1990.0 MHz) Band 3, Downlink (1805.0 - 1880.0 MHz) Band 4, Downlink (2110.0 - 2155.0 MHz) Band 5, Downlink (869.0 - 894.0 MHz) Band 6, Downlink (875.0 - 885.0 MHz) Band 7, Downlink (2620.0 - 2690.0 MHz) Band 8, Downlink (925.0 - 960.0 MHz) Band 9, Downlink (1844.9 - 1879.9 MHz) Band 10, Downlink (2110.0 - 2170.0 MHz) Band 11, Downlink (1475.9 - 1495.9 MHz) Band 12, Downlink (729.0 - 749.0 MHz) Band 13, Downlink (746.0 - 756.0 MHz) Band 14, Downlink (758.0 - 768.0 MHz) Band 17, Downlink (734.0 - 746.0 MHz) Band 18, Downlink (860.0 - 875.0 MHz) Band 19, Downlink (875.0 - 890.0 MHz) Band 20, Downlink (791.0 - 821.0 MHz) Band 21, Downlink (1495.9 - 1510.9 MHz) Band 22, Downlink (3510.0 - 3590.0 MHz) Band 23, Downlink (2180.0 - 2200.0 MHz) Band 24, Downlink (1525.0 - 1559.0 MHz) Band 25, Downlink (1930.0 - 1995.0 MHz) Band 26, Downlink (859.0 - 894.0 MHz) Band 27, Downlink (852.0 - 869.0 MHz) Band 28, Downlink (758.0 - 803.0 MHz) Band 29, Downlink (717.0 - 728.0 MHz) Band 30, Downlink (2350.0 - 2360.0 MHz) Band 32, Downlink (1452.0 - 1496.0 MHz) Band 65, Downlink (2210.0 - 2220.0 MHz) Band 66, Downlink (2210.0 - 2220.0 MHz) Band 67, Downlink (738.0 - 758.0 MHz) Band 68, Downlink (753.0 - 783.0 MHz) Band 69, Downlink (2570.0 - 2620.0 MHz) Band 70, Downlink (1995.0 - 2020.0 MHz) Band 71, Downlink (617.0 - 652.0 MHz) Band 72, Downlink (461.0 - 466.0 MHz) Band 73, Downlink (460.0 - 465.0 MHz) Band 74, Downlink (1475.0 - 1518.0 MHz) Band 75, Downlink (1432.0 - 1517.0 MHz) Band 76, Downlink (1427.0 - 1432.0 MHz) Band 85, Downlink (728.0 - 746.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 5MHz |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 20.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

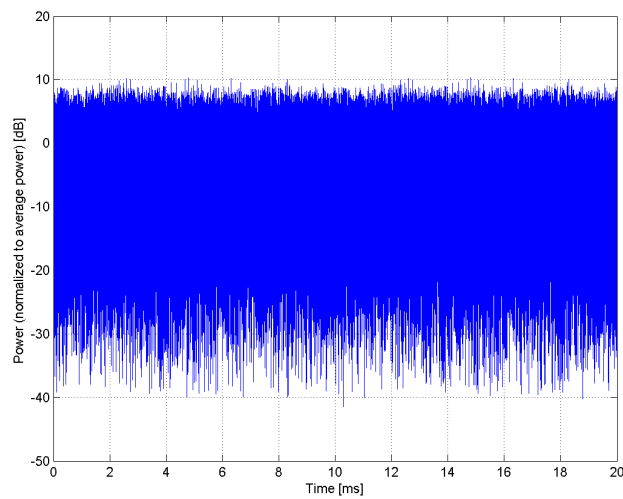
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



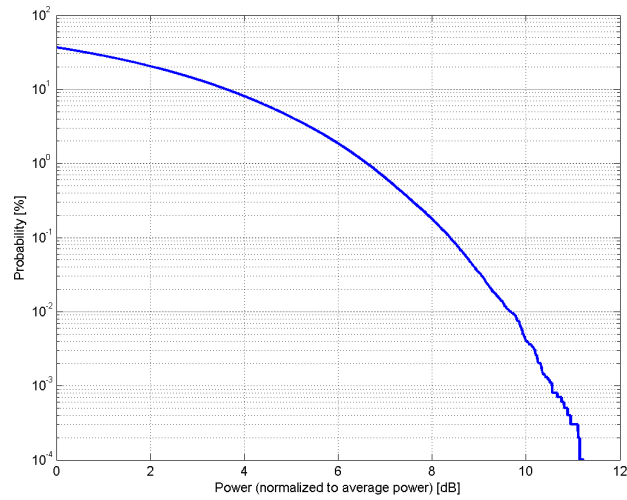
Time Domain

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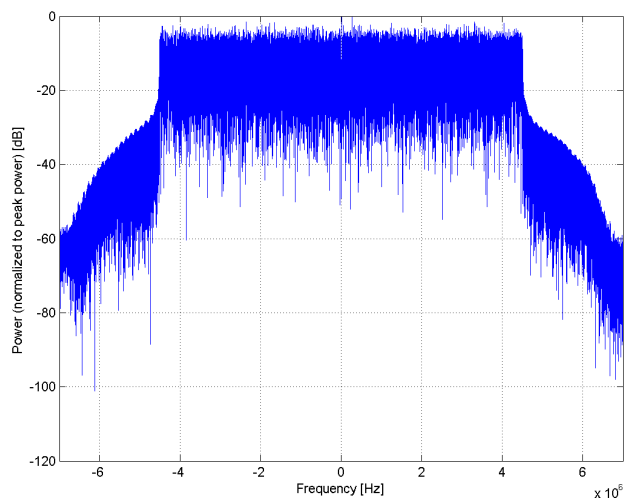
| | |
|-------------------------|--|
| Name: | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) |
| Group: | LTE-FDD |
| UID: | 10431-AAE |
| PAR: ¹ | 8.38 dB |
| MIF: ² | -17.66 dB |
| Standard Reference: | TS 36.141 V11.4 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 1, Downlink (2110.0 - 2170.0 MHz) Band 2, Downlink (1930.0 - 1990.0 MHz) Band 3, Downlink (1805.0 - 1880.0 MHz) Band 4, Downlink (2110.0 - 2155.0 MHz) Band 5, Downlink (869.0 - 894.0 MHz) Band 6, Downlink (875.0 - 885.0 MHz) Band 7, Downlink (2620.0 - 2690.0 MHz) Band 8, Downlink (925.0 - 960.0 MHz) Band 9, Downlink (1844.9 - 1879.9 MHz) Band 10, Downlink (2110.0 - 2170.0 MHz) Band 11, Downlink (1475.9 - 1495.9 MHz) Band 12, Downlink (729.0 - 749.0 MHz) Band 13, Downlink (746.0 - 756.0 MHz) Band 14, Downlink (758.0 - 768.0 MHz) Band 17, Downlink (734.0 - 746.0 MHz) Band 18, Downlink (860.0 - 875.0 MHz) Band 19, Downlink (875.0 - 890.0 MHz) Band 20, Downlink (791.0 - 821.0 MHz) Band 21, Downlink (1495.9 - 1510.9 MHz) Band 22, Downlink (3510.0 - 3590.0 MHz) Band 23, Downlink (2180.0 - 2200.0 MHz) Band 24, Downlink (1525.0 - 1559.0 MHz) Band 25, Downlink (1930.0 - 1995.0 MHz) Band 26, Downlink (859.0 - 894.0 MHz) Band 27, Downlink (852.0 - 869.0 MHz) Band 28, Downlink (758.0 - 803.0 MHz) Band 32, Downlink (1452.0 - 1496.0 MHz) Band 29, Downlink (717.0 - 728.0 MHz) Band 65, Downlink (2210.0 - 2220.0 MHz) Band 66, Downlink (2210.0 - 2220.0 MHz) Band 67, Downlink (738.0 - 758.0 MHz) Band 68, Downlink (753.0 - 783.0 MHz) Band 70, Downlink (1995.0 - 2020.0 MHz) Band 71, Downlink (617.0 - 652.0 MHz) Band 74, Downlink (1475.0 - 1518.0 MHz) Band 75, Downlink (1432.0 - 1517.0 MHz) Band 85, Downlink (728.0 - 746.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 10MHz |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 20.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

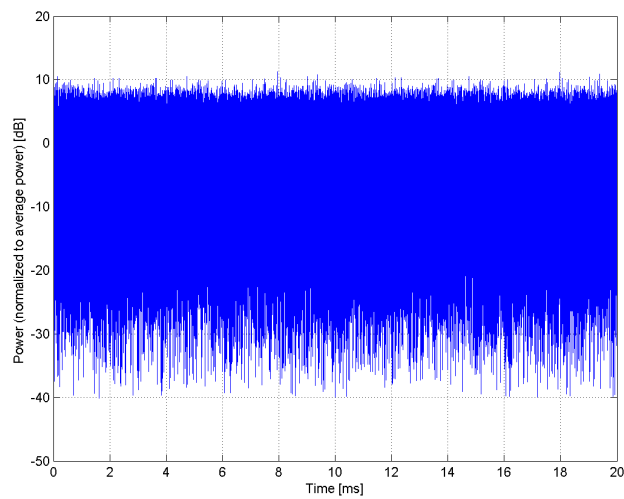
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)**

Group: LTE-FDD
UID: 10432-AAD

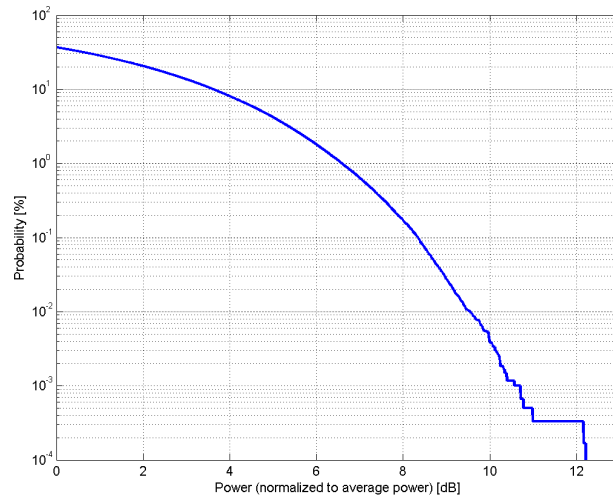
PAR: ¹ **8.34 dB**
MIF: ² **-19.05 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 18, Downlink (860.0 - 875.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 68, Downlink (753.0 - 783.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Validation band (0.0 - 6000.0 MHz)

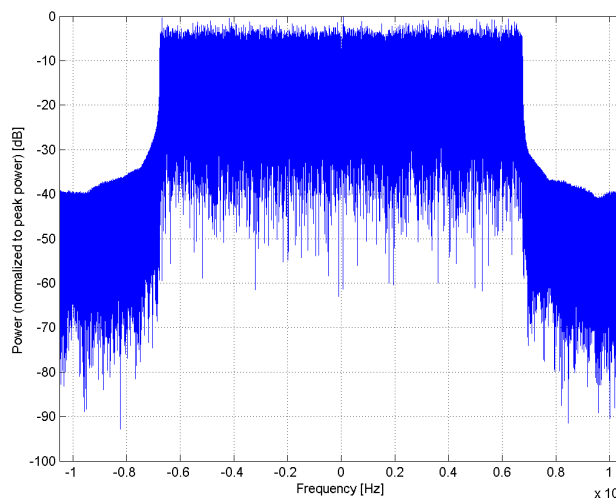
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 15MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

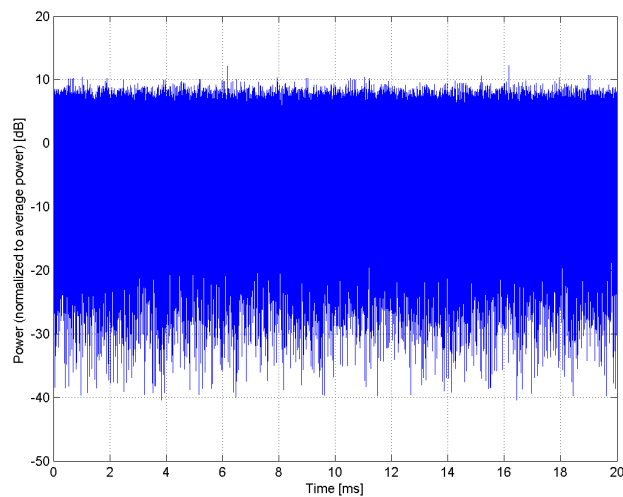
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)**

Group: LTE-FDD
UID: 10433-AAD

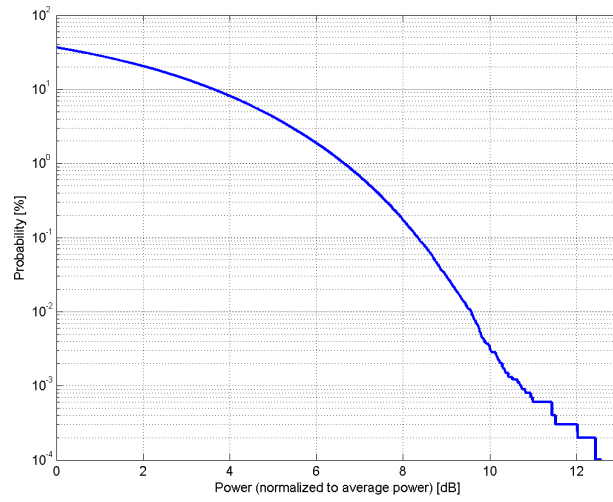
PAR: ¹ **8.34 dB**
MIF: ² **-19.83 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Validation band (0.0 - 6000.0 MHz)

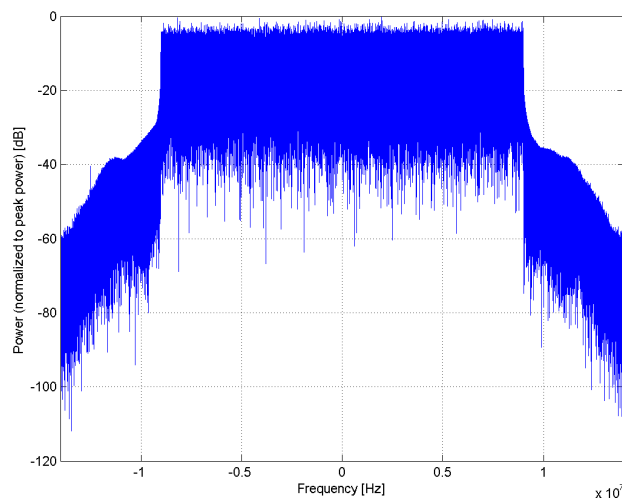
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 20MHz
Bandwidth: 20.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

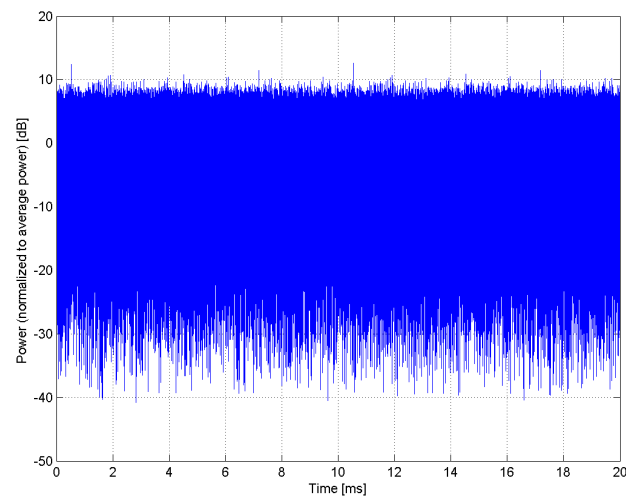
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **W-CDMA (BS Test Model 1, 64 DPCH)**

Group: WCDMA
UID: 10434-AAB

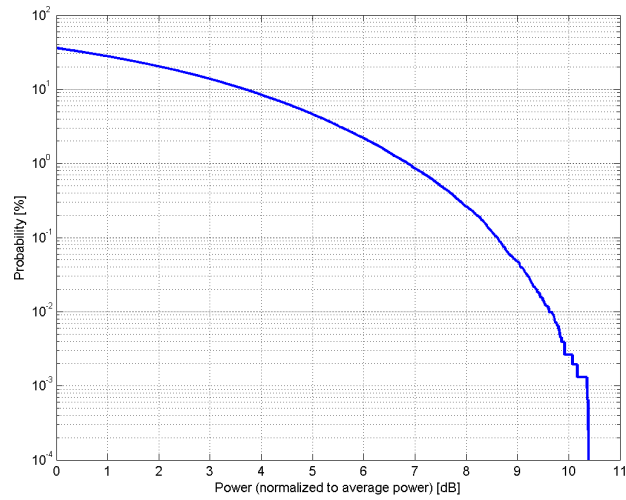
PAR: ¹ **8.60 dB**
MIF: ² **-16.44 dB**

Standard Reference: TS 25.141
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 5, Downlink (869.0 - 894.0 MHz)
Band 6, Downlink (875.0 - 885.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 8, Downlink (925.0 - 960.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 11, Downlink (1475.9 - 1495.9 MHz)
Band 12, Downlink (729.0 - 749.0 MHz)
Band 13, Downlink (746.0 - 756.0 MHz)
Band 14, Downlink (758.0 - 768.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Validation band (0.0 - 6000.0 MHz)

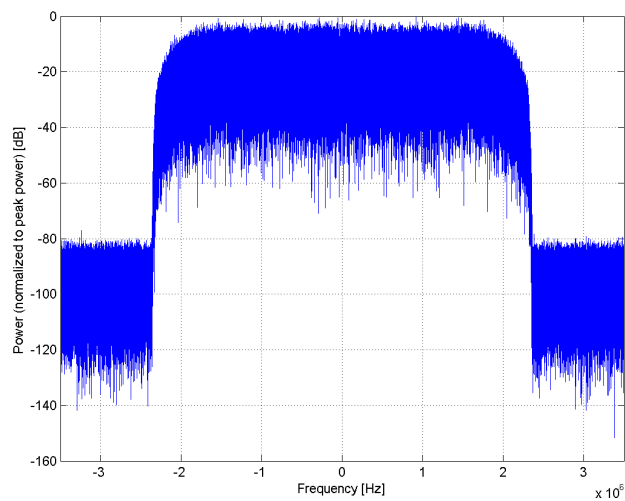
Detailed Specification: WCDMA BS Test Model 1 DPCHx64
Single Carrier
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

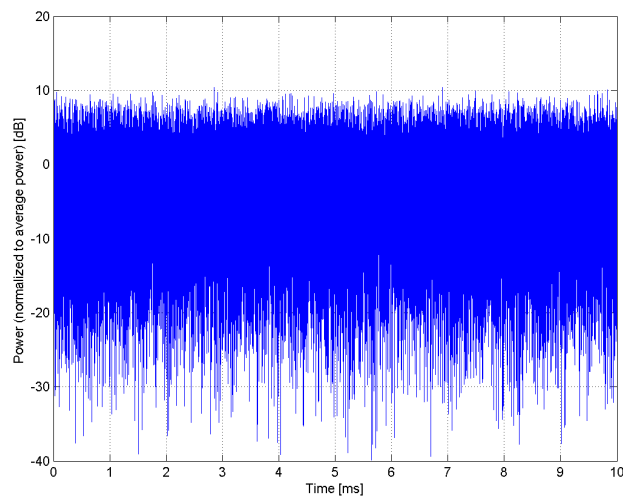
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10435-AAG

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

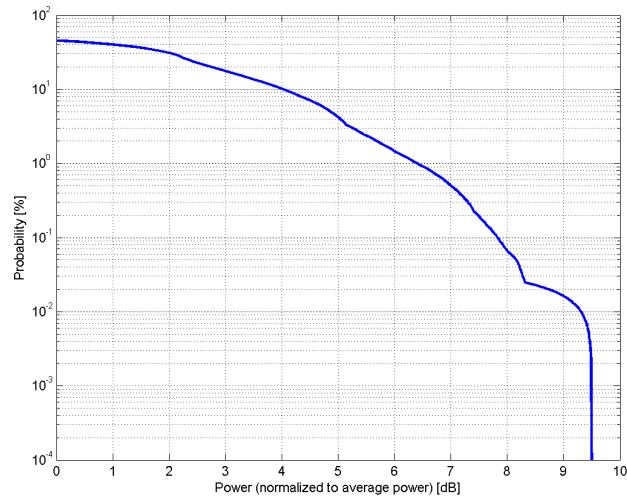
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

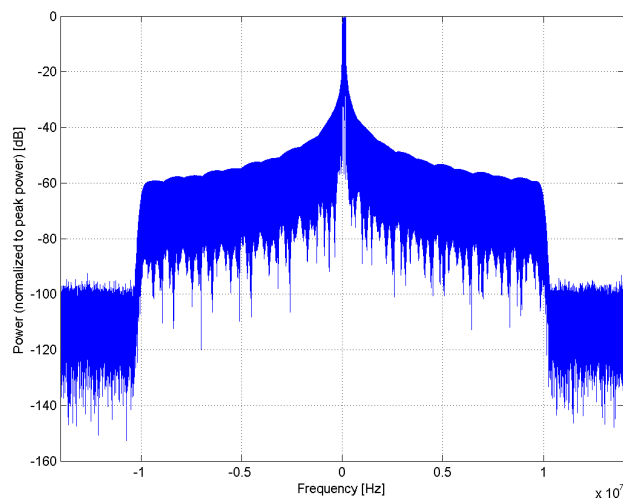
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

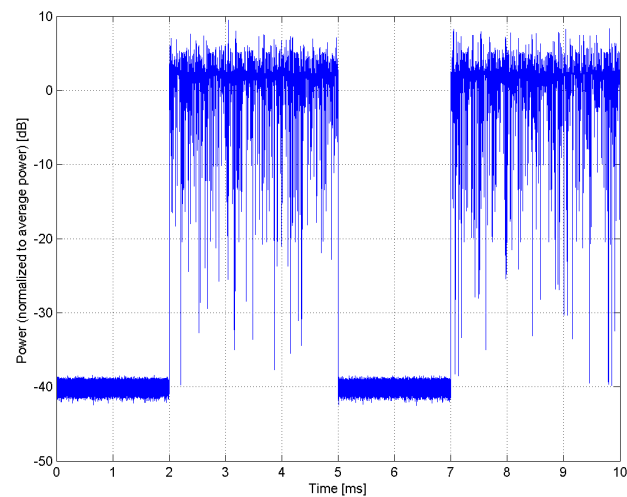
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-FDD
UID: 10447-AAE

PAR: ¹ **7.56 dB**
MIF: ² **-13.47 dB**

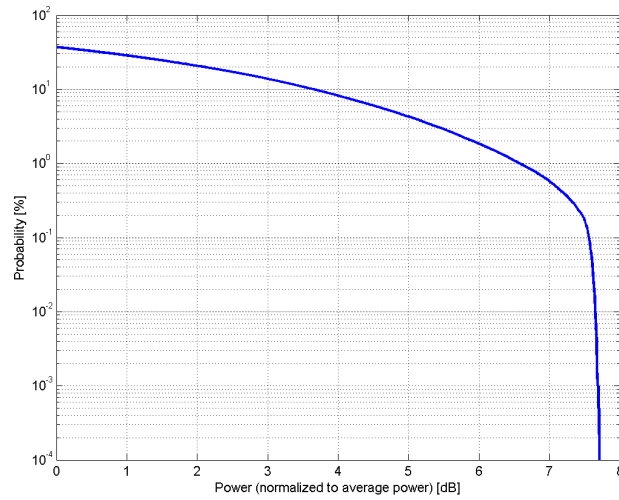
Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 5, Downlink (869.0 - 894.0 MHz)
Band 6, Downlink (875.0 - 885.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 8, Downlink (925.0 - 960.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 11, Downlink (1475.9 - 1495.9 MHz)
Band 12, Downlink (729.0 - 749.0 MHz)
Band 13, Downlink (746.0 - 756.0 MHz)
Band 14, Downlink (758.0 - 768.0 MHz)
Band 17, Downlink (734.0 - 746.0 MHz)
Band 18, Downlink (860.0 - 875.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 24, Downlink (1525.0 - 1559.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Band 27, Downlink (852.0 - 869.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 29, Downlink (717.0 - 728.0 MHz)
Band 30, Downlink (2350.0 - 2360.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 68, Downlink (753.0 - 783.0 MHz)
Band 69, Downlink (2570.0 - 2620.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 72, Downlink (461.0 - 466.0 MHz)
Band 73, Downlink (460.0 - 465.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Band 76, Downlink (1427.0 - 1432.0 MHz)
Band 85, Downlink (728.0 - 746.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 5MHz
Clipping 44%

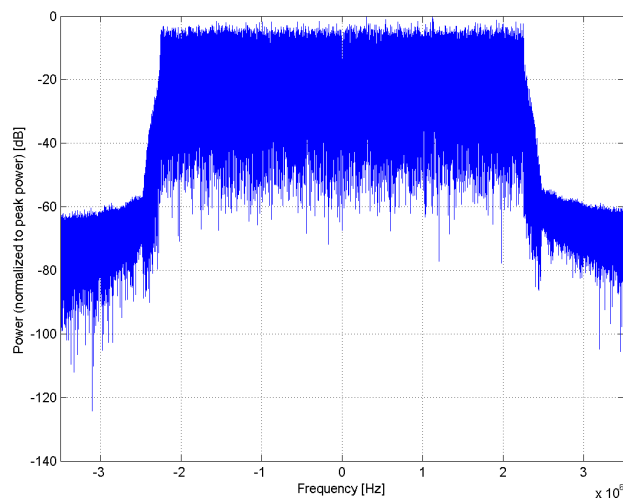
Bandwidth: 5.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

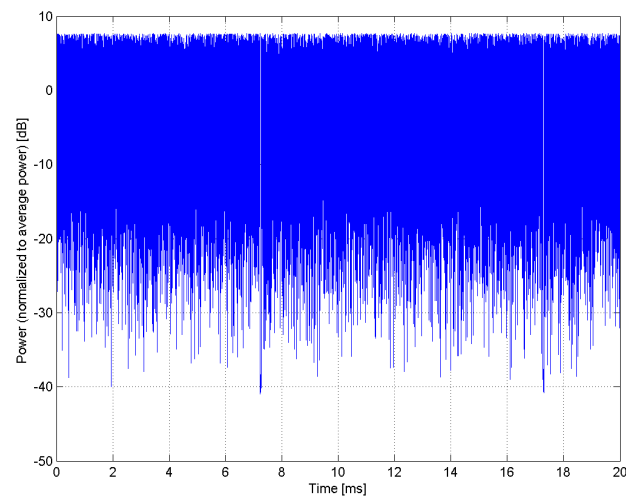
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-FDD
UID: 10448-AAE

PAR: ¹ **7.53 dB**
MIF: ² **-14.92 dB**

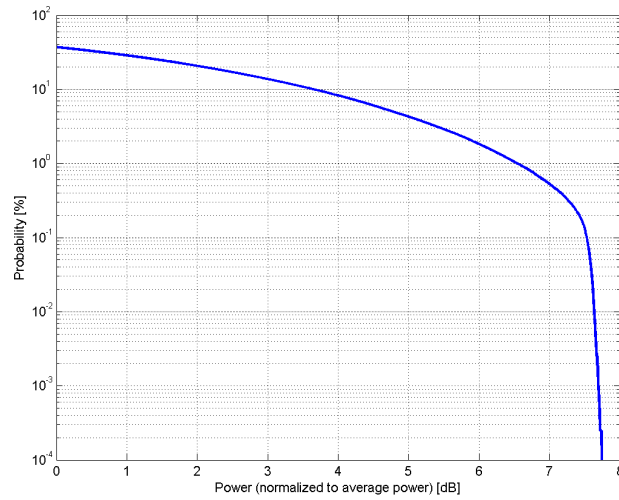
Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 5, Downlink (869.0 - 894.0 MHz)
Band 6, Downlink (875.0 - 885.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 8, Downlink (925.0 - 960.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 11, Downlink (1475.9 - 1495.9 MHz)
Band 12, Downlink (729.0 - 749.0 MHz)
Band 13, Downlink (746.0 - 756.0 MHz)
Band 14, Downlink (758.0 - 768.0 MHz)
Band 17, Downlink (734.0 - 746.0 MHz)
Band 18, Downlink (860.0 - 875.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 24, Downlink (1525.0 - 1559.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Band 27, Downlink (852.0 - 869.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 29, Downlink (717.0 - 728.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 68, Downlink (753.0 - 783.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Band 85, Downlink (728.0 - 746.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 10MHz
Clipping 44%

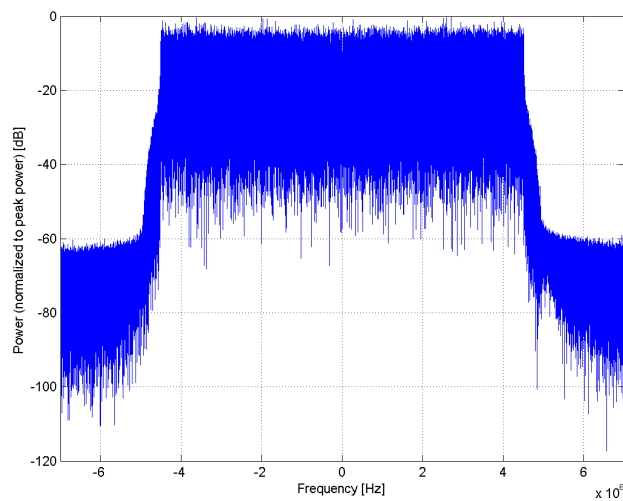
Bandwidth: 10.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

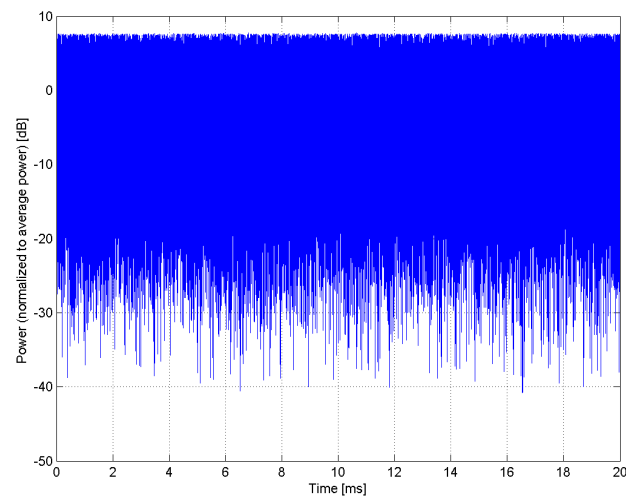
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-FDD
UID: 10449-AAD

PAR: ¹ **7.51 dB**
MIF: ² **-16.22 dB**

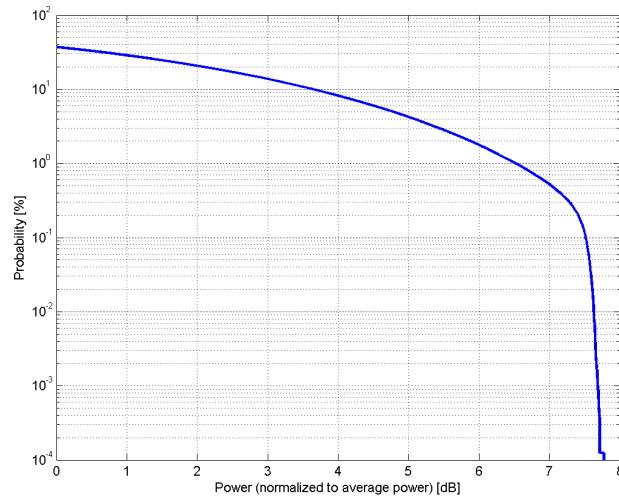
Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 18, Downlink (860.0 - 875.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 68, Downlink (753.0 - 783.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 15MHz
Clipping 44%

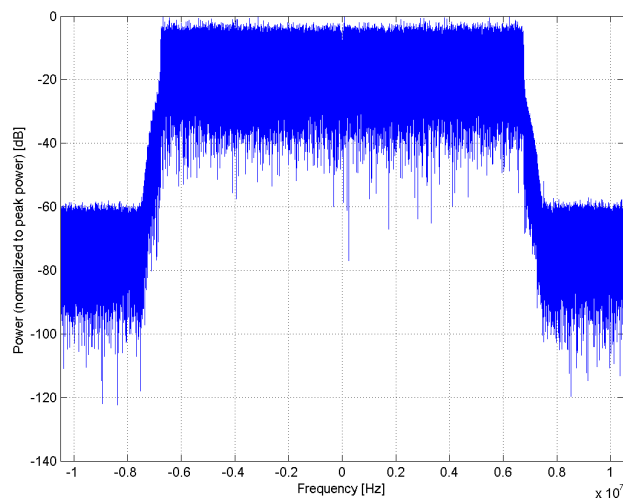
Bandwidth: 15.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

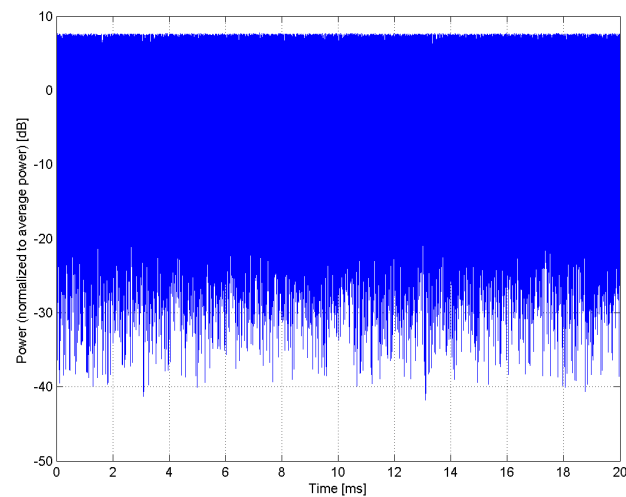
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-FDD
UID: 10450-AAD

PAR: ¹ **7.48 dB**
MIF: ² **-17.72 dB**

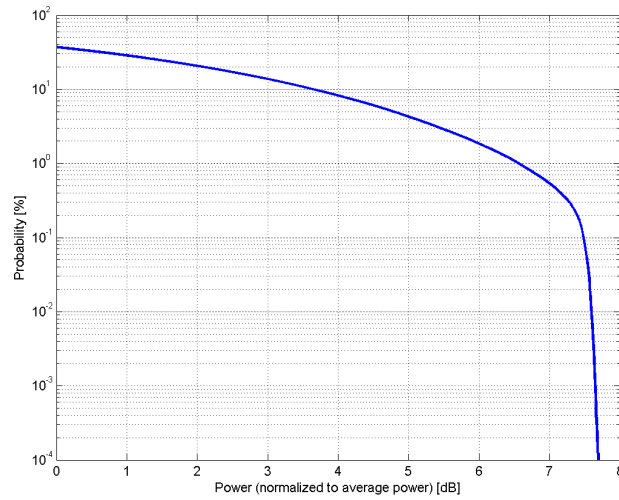
Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 23, Downlink (2180.0 - 2200.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 28, Downlink (758.0 - 803.0 MHz)
Band 32, Downlink (1452.0 - 1496.0 MHz)
Band 65, Downlink (2210.0 - 2220.0 MHz)
Band 66, Downlink (2210.0 - 2220.0 MHz)
Band 67, Downlink (738.0 - 758.0 MHz)
Band 70, Downlink (1995.0 - 2020.0 MHz)
Band 71, Downlink (617.0 - 652.0 MHz)
Band 74, Downlink (1475.0 - 1518.0 MHz)
Band 75, Downlink (1432.0 - 1517.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1)
Bandwidth: 20MHz
Clipping 44%

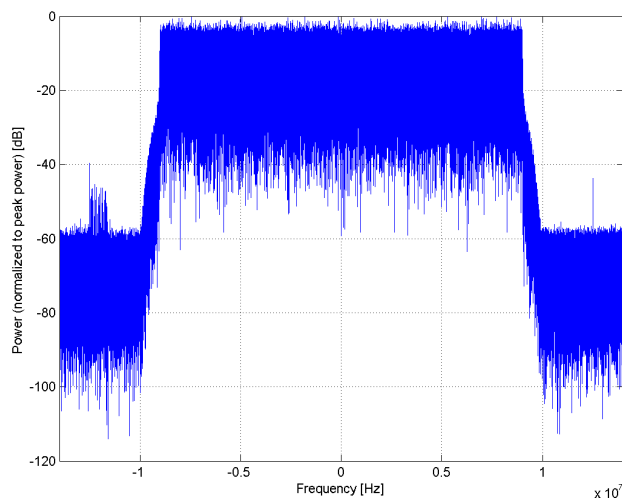
Bandwidth: 20.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

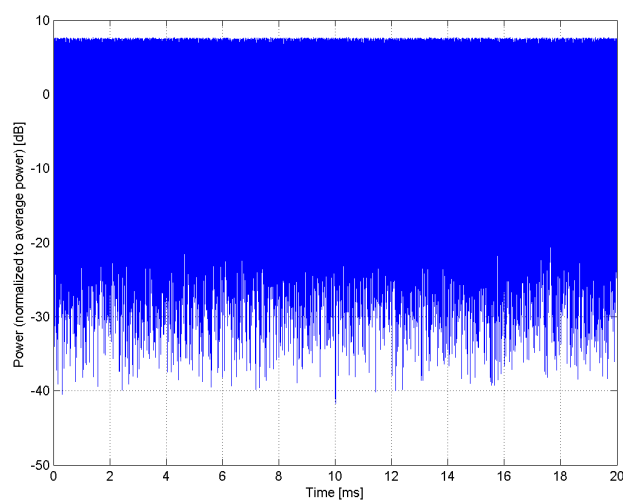
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)**

Group: WCDMA
UID: 10451-AAB

PAR: ¹ **7.59 dB**
MIF: ² **-12.93 dB**

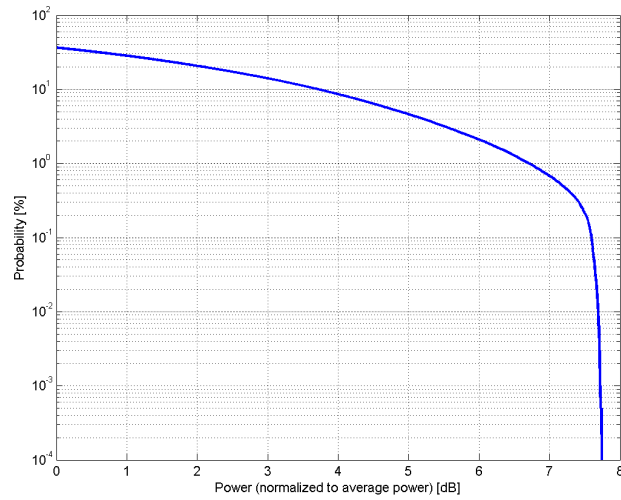
Standard Reference: TS 25.141
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 1, Downlink (2110.0 - 2170.0 MHz)
Band 2, Downlink (1930.0 - 1990.0 MHz)
Band 3, Downlink (1805.0 - 1880.0 MHz)
Band 4, Downlink (2110.0 - 2155.0 MHz)
Band 5, Downlink (869.0 - 894.0 MHz)
Band 6, Downlink (875.0 - 885.0 MHz)
Band 7, Downlink (2620.0 - 2690.0 MHz)
Band 8, Downlink (925.0 - 960.0 MHz)
Band 9, Downlink (1844.9 - 1879.9 MHz)
Band 10, Downlink (2110.0 - 2170.0 MHz)
Band 11, Downlink (1475.9 - 1495.9 MHz)
Band 12, Downlink (729.0 - 749.0 MHz)
Band 13, Downlink (746.0 - 756.0 MHz)
Band 14, Downlink (758.0 - 768.0 MHz)
Band 19, Downlink (875.0 - 890.0 MHz)
Band 20, Downlink (791.0 - 821.0 MHz)
Band 21, Downlink (1495.9 - 1510.9 MHz)
Band 22, Downlink (3510.0 - 3590.0 MHz)
Band 25, Downlink (1930.0 - 1995.0 MHz)
Band 26, Downlink (859.0 - 894.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: WCDMA BS Test Model 1 DPCHx64
Single Carrier
Clipping 44%

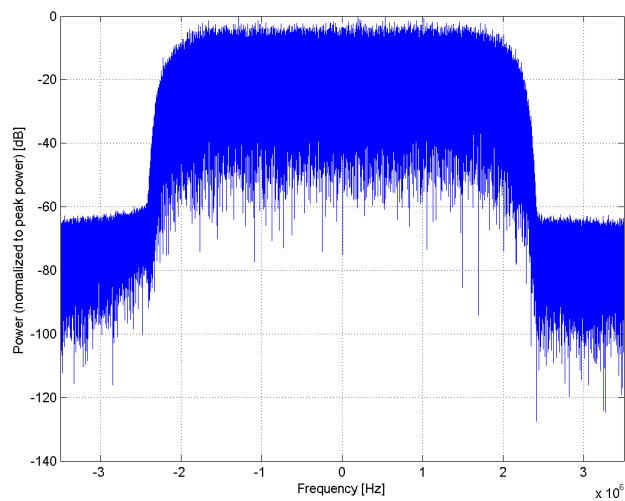
Bandwidth: 5.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

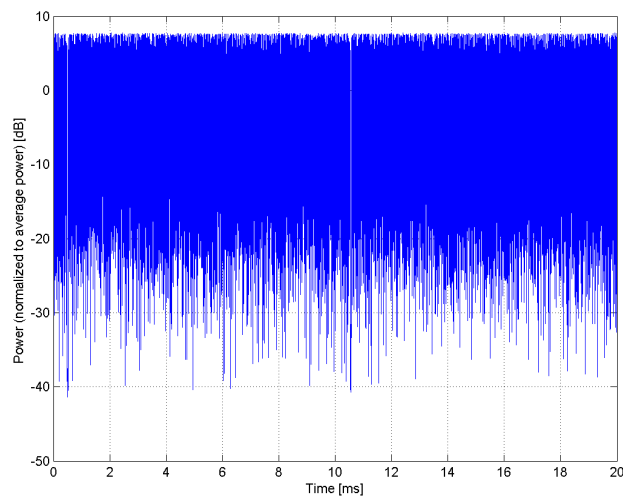
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



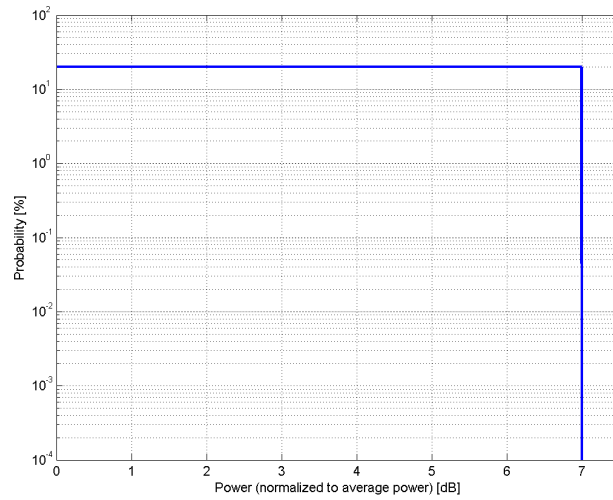
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

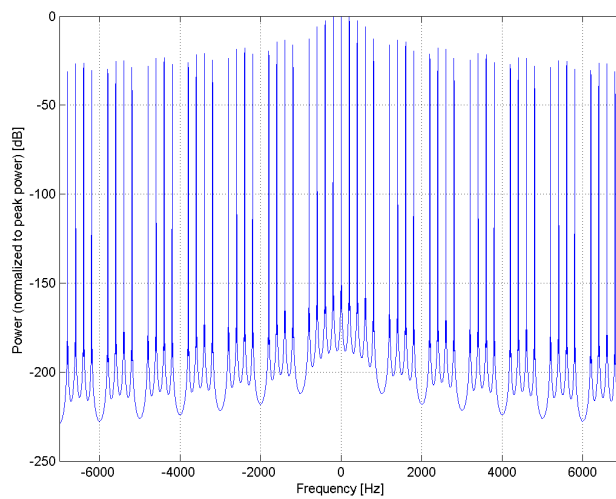
| | |
|-------------------------|---|
| Name: | MRI (Square, 5ms, 1ms) |
| Group: | MRI |
| UID: | 10452-AAC |
| PAR: ¹ | 6.99 dB |
| MIF: ² | 1.54 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 200 Hz Duty Cycle: 20% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 5.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

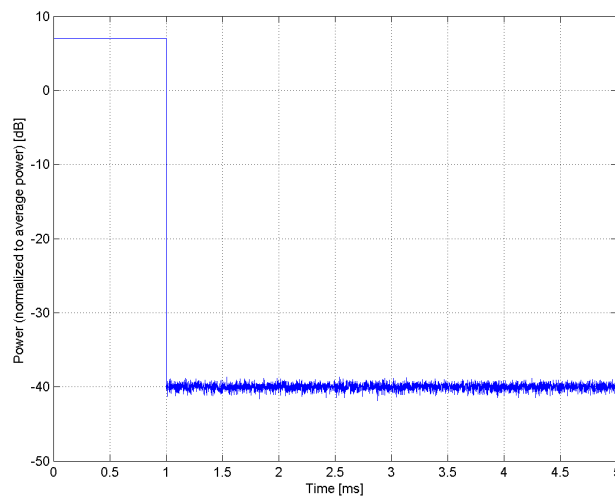
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



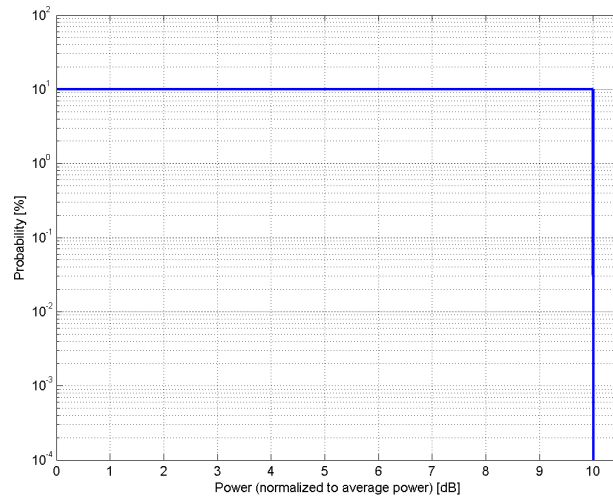
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

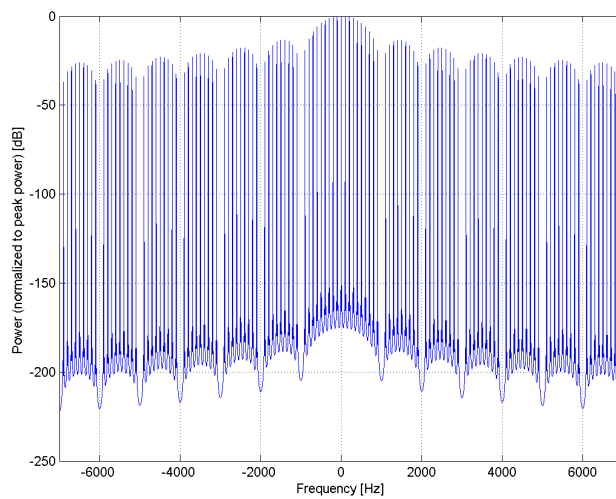
| | |
|-------------------------|--|
| Name: | Validation (Square, 10ms, 1ms) |
| Group: | Test |
| UID: | 10453-AAE |
| PAR: ¹ | 10.00 dB |
| MIF: ² | 3.94 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 100 Hz Duty Cycle: 10% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

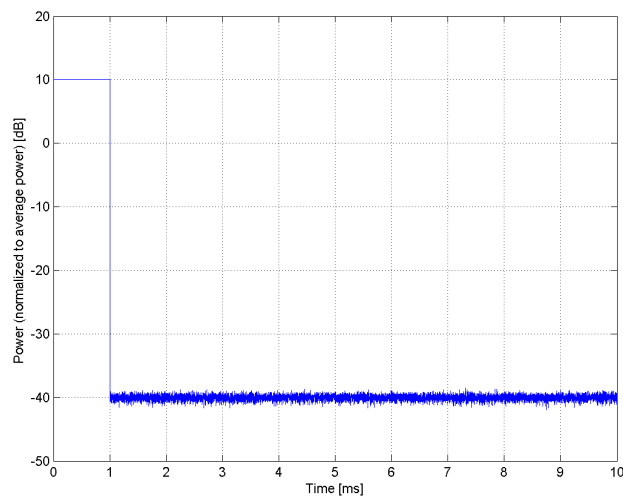
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



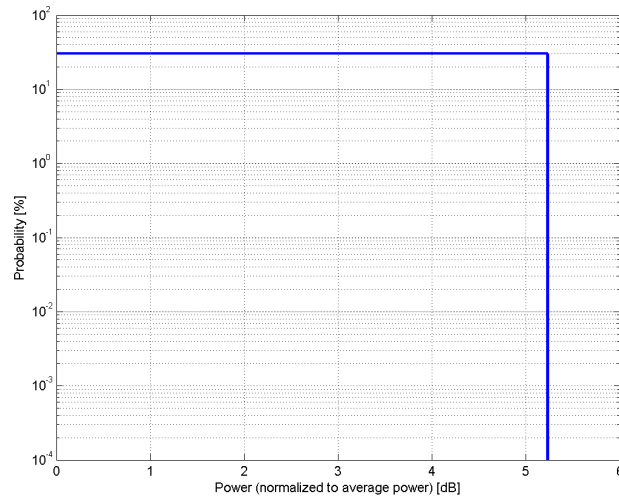
Time Domain

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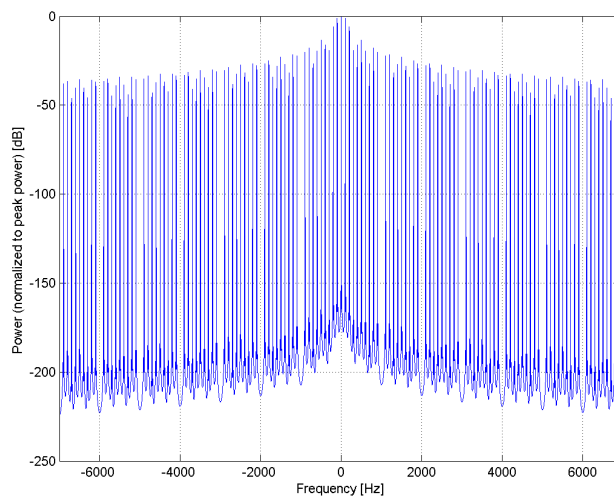
| | |
|-------------------------|---|
| Name: | MRI (Square, 10ms, 3ms) |
| Group: | MRI |
| UID: | 10454-AAC |
| PAR: ¹ | 5.23 dB |
| MIF: ² | -1.39 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 100 Hz Duty Cycle: 30% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

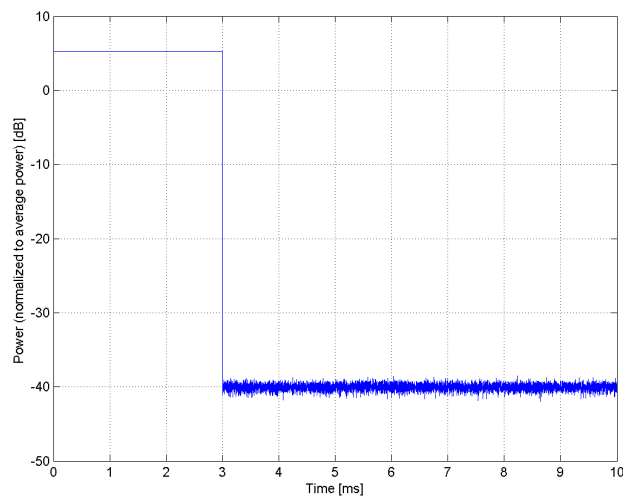
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



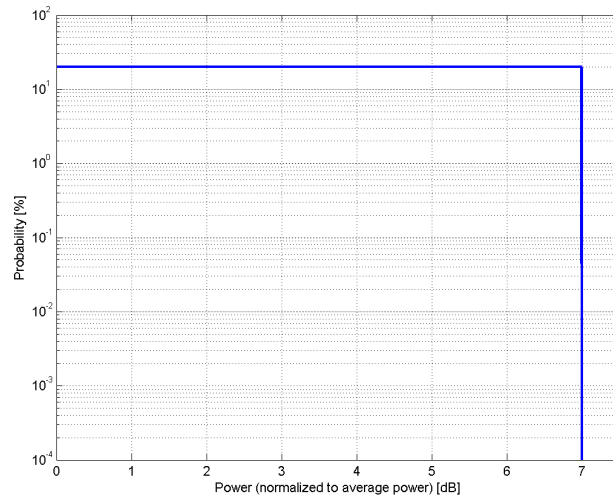
Time Domain

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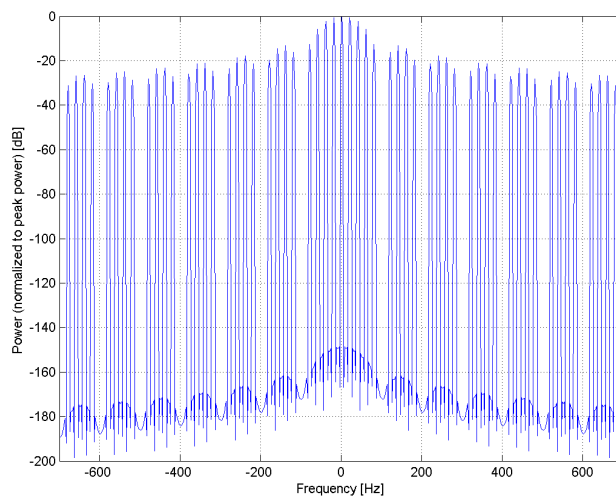
| | |
|-------------------------|--|
| Name: | MRI (Square, 50ms, 10ms) |
| Group: | MRI |
| UID: | 10455-AAC |
| PAR: ¹ | 6.99 dB |
| MIF: ² | -1.16 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: rectangular Repetition Rate: 20 Hz Duty Cycle: 20% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 50.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

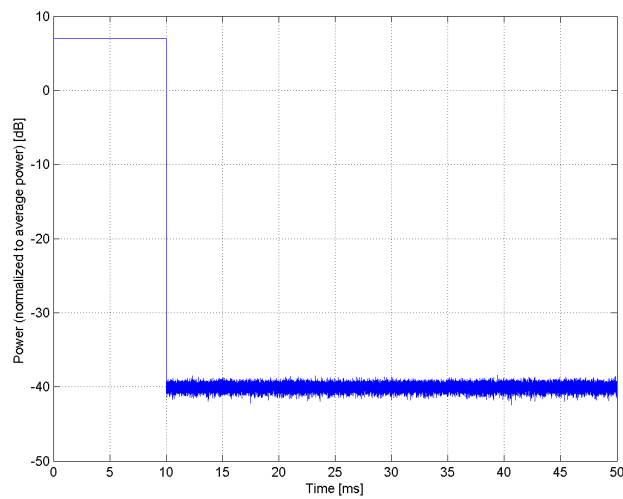
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)**

Group: WLAN
UID: 10456-AAD

PAR: ¹ **8.63 dB**
MIF: ² **-14.83 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

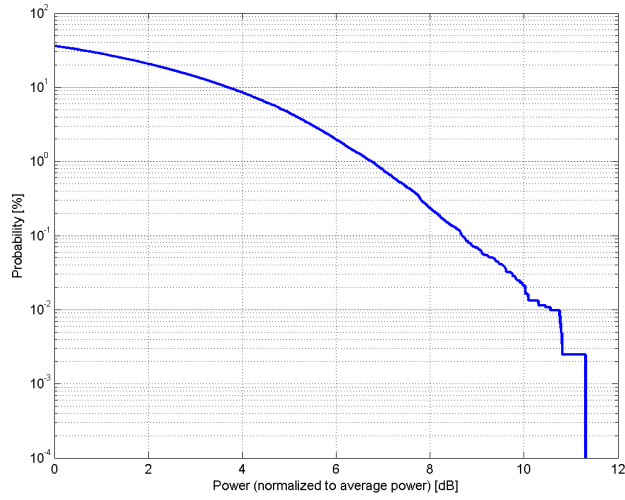
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 5
Number of spatial streams: 1
MPDU length: 32768

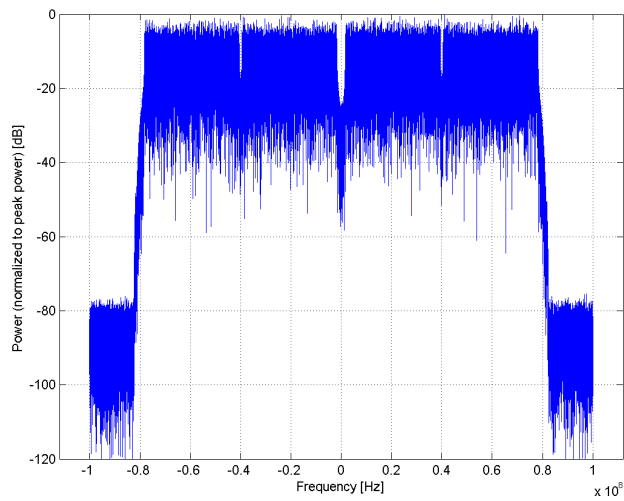
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

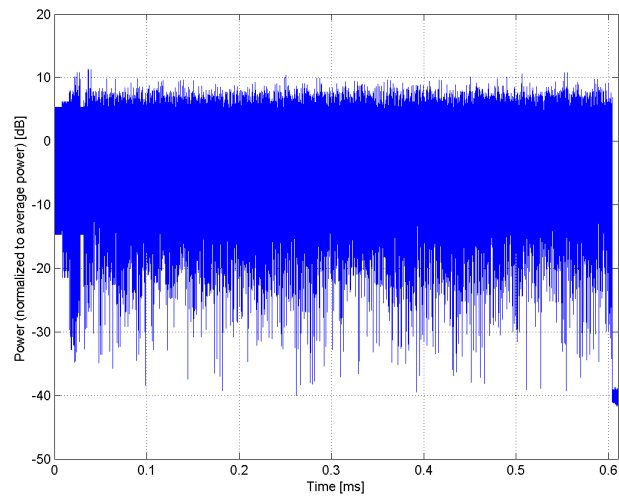
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (DC-HSDPA)**

Group: WCDMA
UID: 10457-AAB

PAR: ¹ **6.62 dB**
MIF: ² **-21.09 dB**

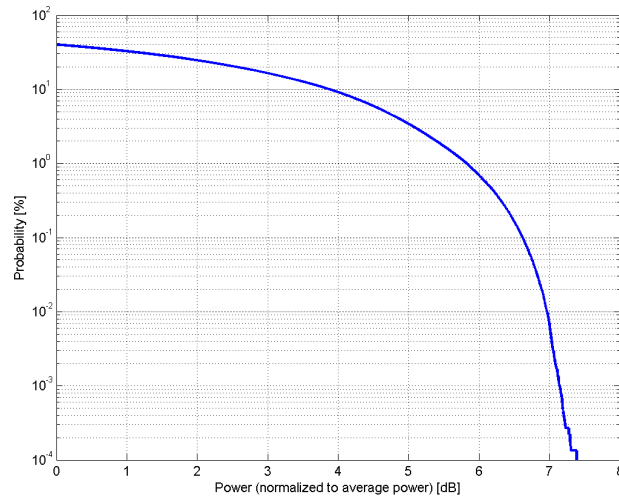
Standard Reference: FCC OET KDB 941225 D01 SAR test for 3G devices v03

Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

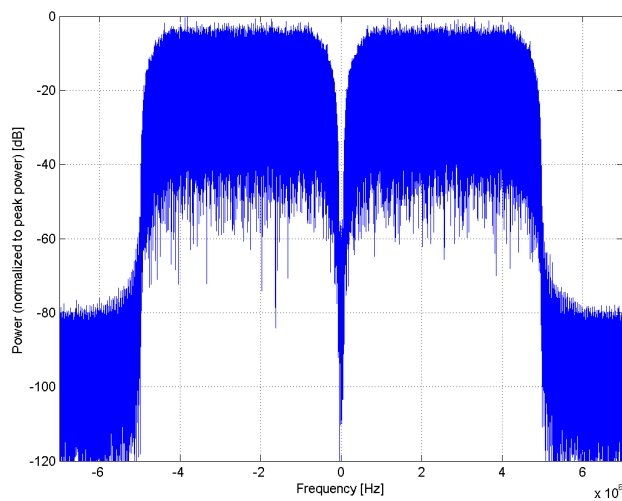
Detailed Specification: Dual Carrier HSDPA
Bandwidth: 10.0 MHz
Integration Time: 97.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

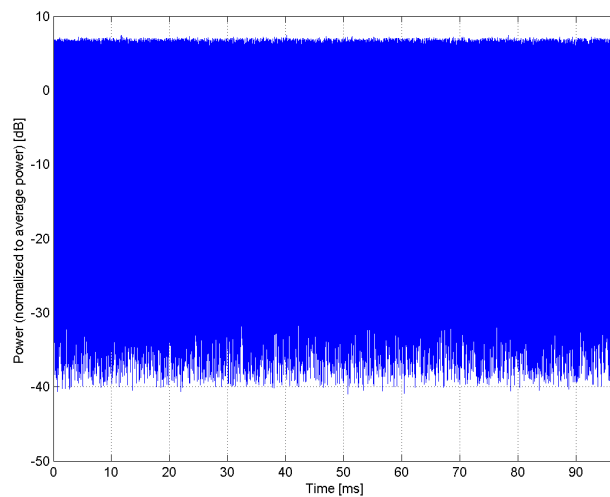
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



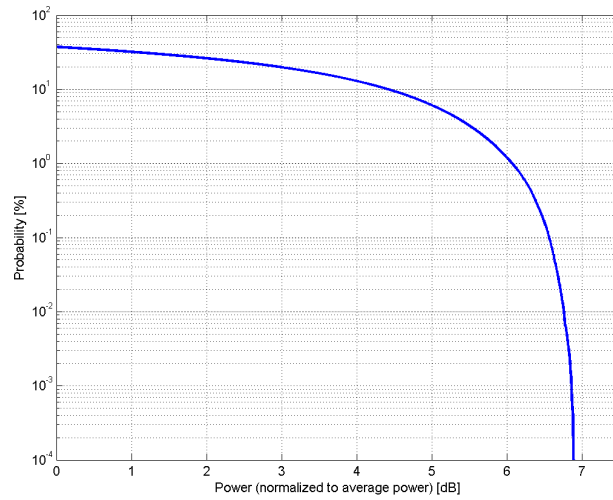
Time Domain

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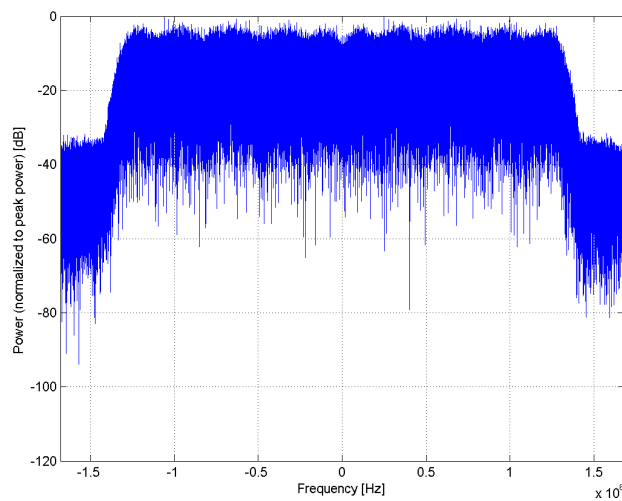
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) |
| Group: | CDMA2000 |
| UID: | 10458-AAA |
| PAR: ¹ | 6.55 dB |
| MIF: ² | -18.92 dB |
| Standard Reference: | FCC OET KDB 941225 D01 SAR test for 3G devices v03 |
| Category: | Random amplitude modulation |
| Modulation: | Q2 |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Physical Layer Configuration: Subtype 2 Reverse Data Channel Payload Size: 4096 bits, termination target of 16 slots Forward Traffic Channel: 2-slot version of 307.2kbps, ACK channel transmitting in all slots Access Terminal Power Control: "All bits up" |
| Bandwidth: | 2.4 MHz |
| Integration Time: | 95.2 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

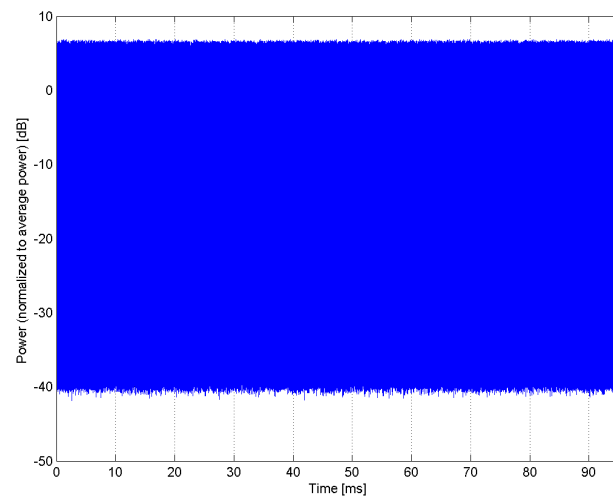
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



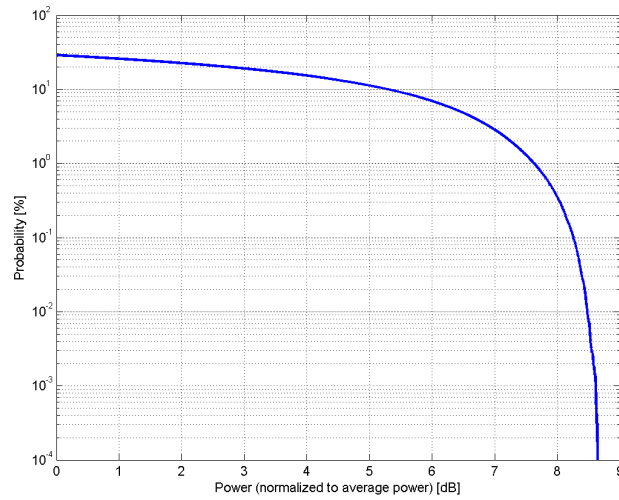
Time Domain

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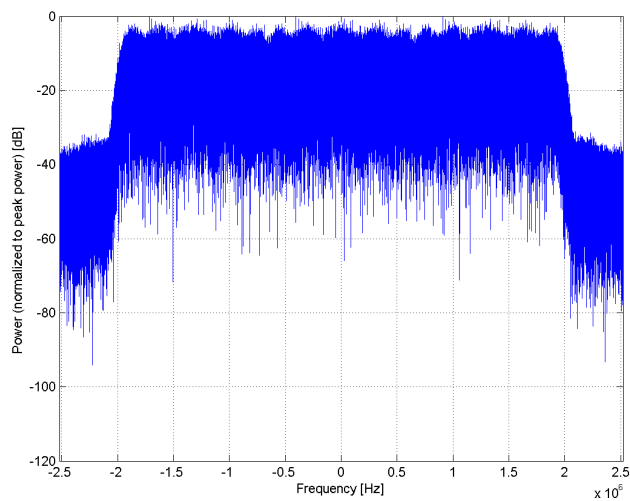
| | |
|-------------------------|--|
| Name: | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) |
| Group: | CDMA2000 |
| UID: | 10459-AAA |
| PAR: ¹ | 8.25 dB |
| MIF: ² | -19.19 dB |
| Standard Reference: | FCC OET KDB 941225 D01 SAR test for 3G devices v03 |
| Category: | Random amplitude modulation |
| Modulation: | Q2 |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Physical Layer Configuration: Subtype 2 Reverse Data Channel Payload Size: 4096 bits, termination target of 16 slots Forward Traffic Channel: 2-slot version of 307.2kbps, ACK channel transmitting in all slots Access Terminal Power Control: "All bits up" |
| Bandwidth: | 3.6 MHz |
| Integration Time: | 95.2 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

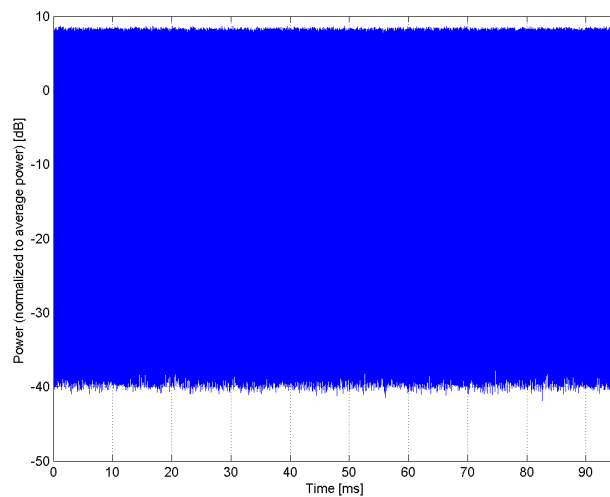
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **UMTS-FDD (WCDMA, AMR)**

Group: WCDMA
UID: 10460-AAB

PAR: ¹ **2.39 dB**
MIF: ² **-25.43 dB**

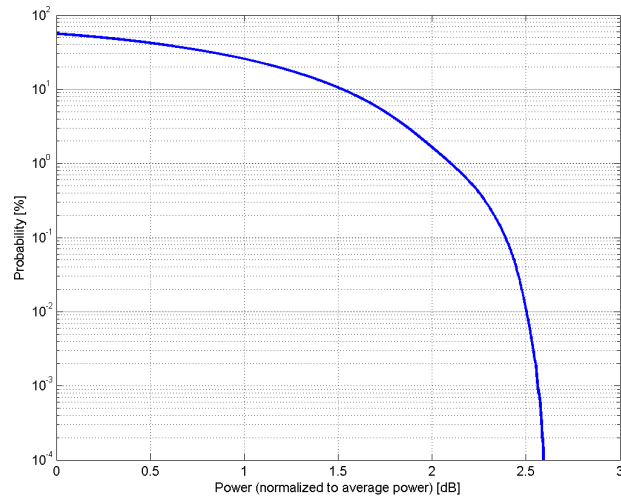
Standard Reference: FCC OET KDB 941225 D01 SAR test for 3G devices v03

Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 1 (1920.0 - 1980.0 MHz)
Band 2 (1850.0 - 1910.0 MHz)
Band 3 (1710.0 - 1785.0 MHz)
Band 4 (1710.0 - 1755.0 MHz)
Band 5 (824.0 - 849.0 MHz)
Band 6 (830.0 - 840.0 MHz)
Band 7 (2500.0 - 2570.0 MHz)
Band 8 (880.0 - 915.0 MHz)
Band 9 (1749.9 - 1784.9 MHz)
Band 10 (1710.0 - 1770.0 MHz)
Band 11 (1427.9 - 1452.9 MHz)
Band 12 (698.0 - 716.0 MHz)
Band 13 (777.0 - 787.0 MHz)
Band 14 (788.0 - 798.0 MHz)
Band 19 (830.0 - 845.0 MHz)
Band 20 (832.0 - 862.0 MHz)
Band 21 (1447.9 - 1462.9 MHz)
Band 22 (3410.0 - 3490.0 MHz)
Band 25 (1850.0 - 1915.0 MHz)
Band 26 (814.0 - 849.0 MHz)
Validation band (0.0 - 6000.0 MHz)

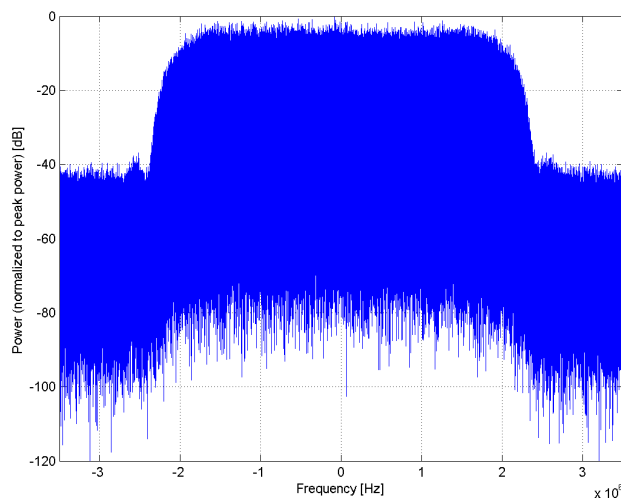
Detailed Specification: Dedicated Channel Type: 12.2 kbps AMR
3.4 kbps SRB
Bandwidth: 5.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

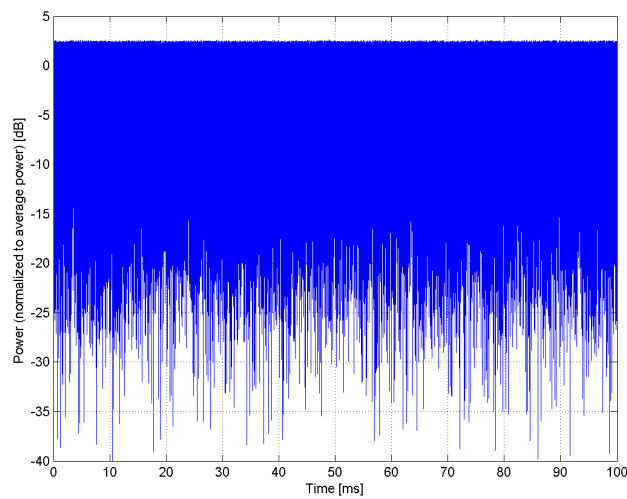
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10461-AAC

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

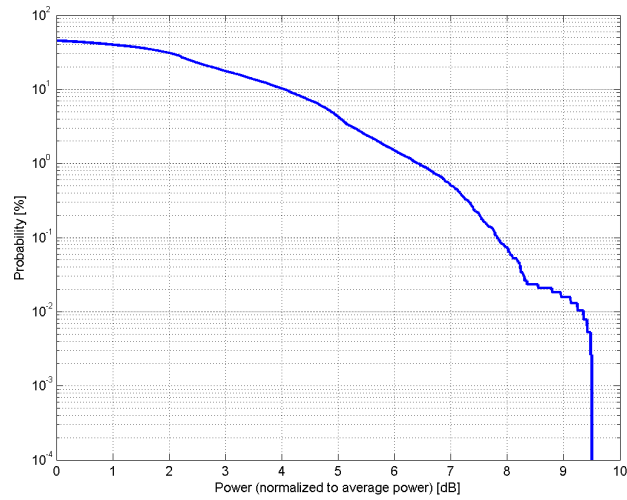
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

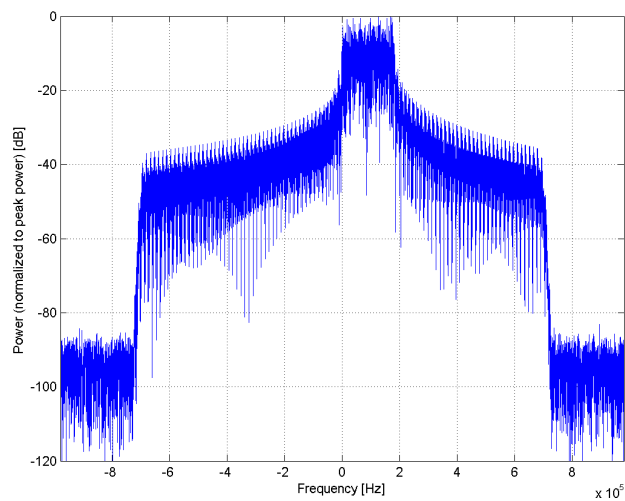
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

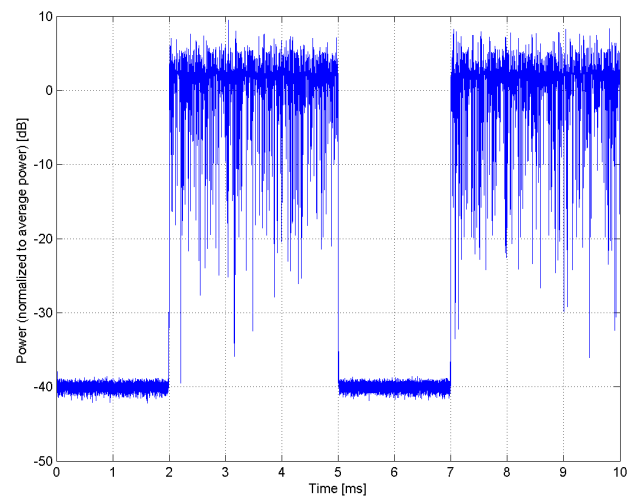
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10462-AAC

PAR: ¹ **8.30 dB**
MIF: ² **-3.17 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

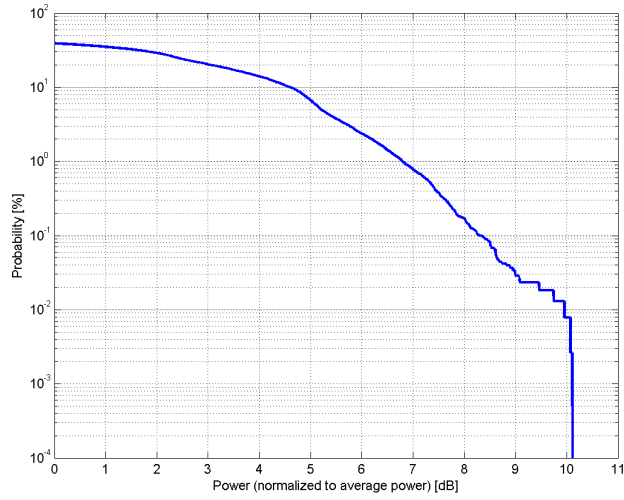
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

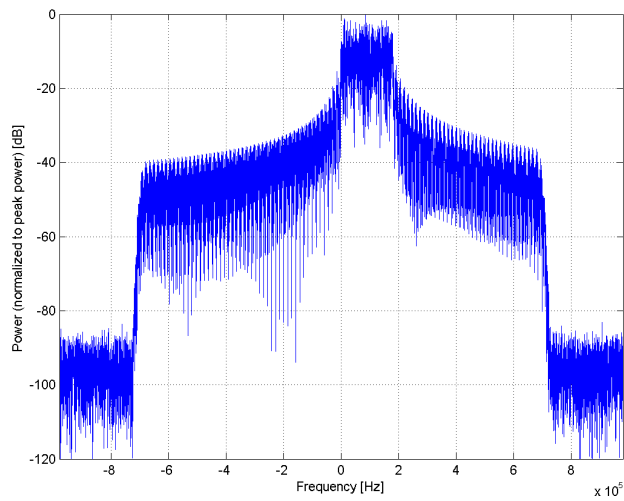
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

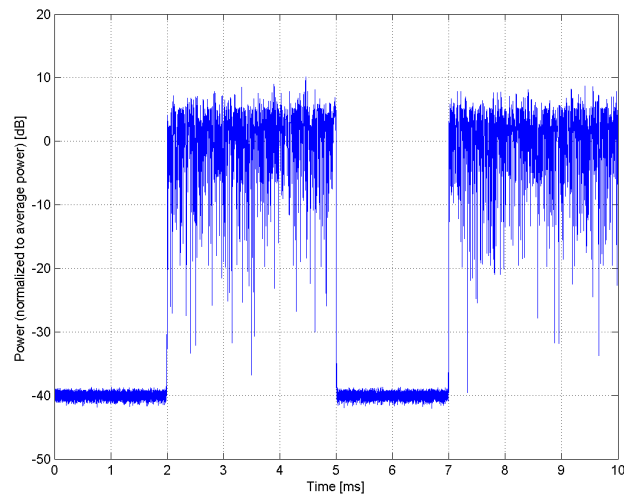
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10463-AAC

PAR: ¹ **8.56 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

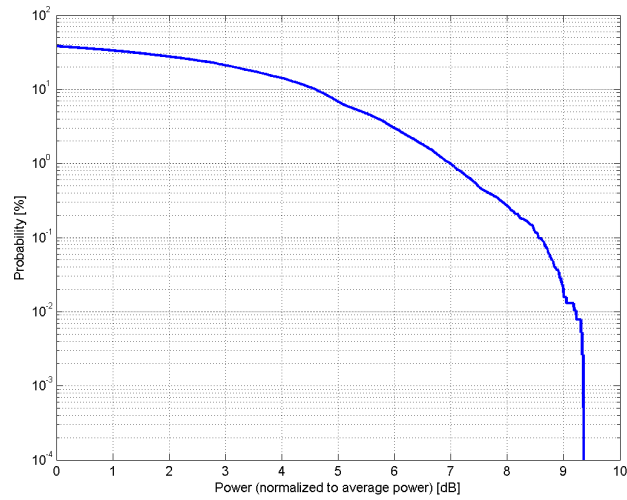
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 3
Data Type: PN9fix

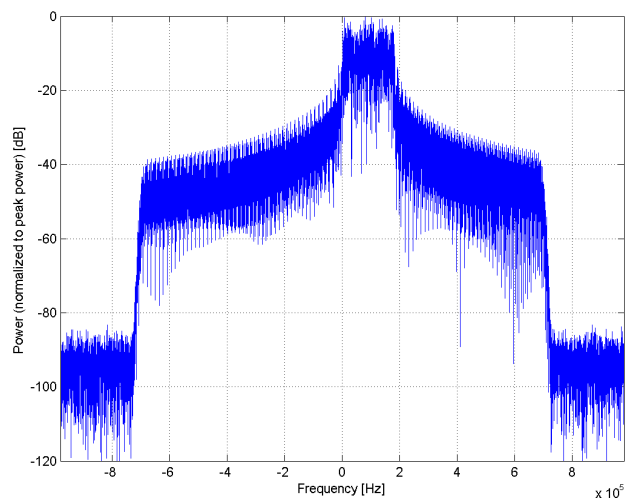
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

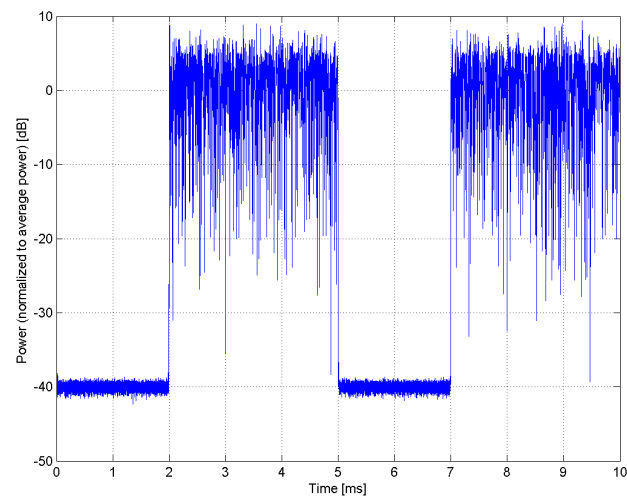
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10464-AAD

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

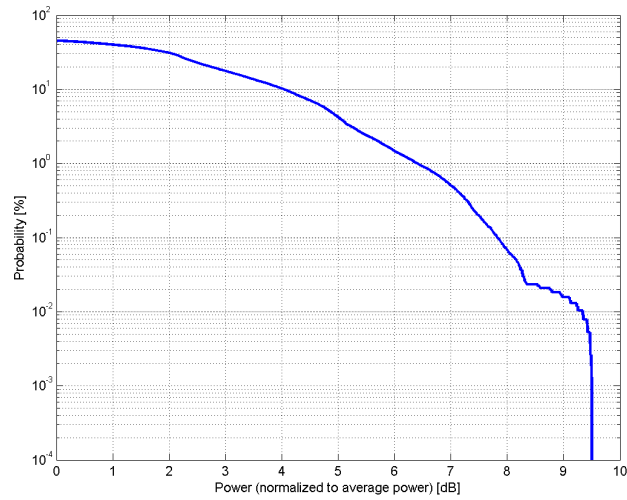
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

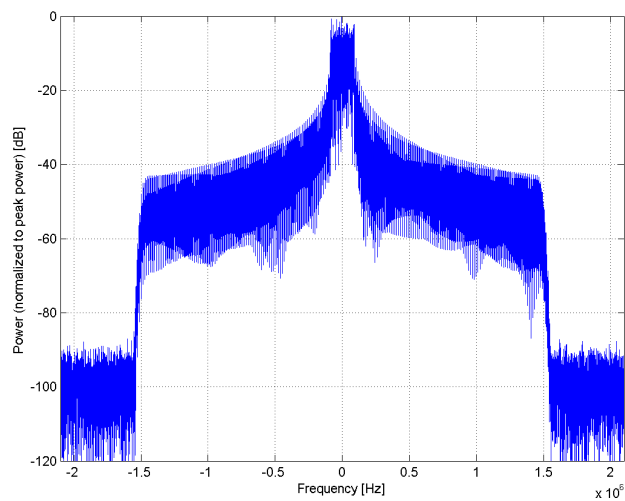
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

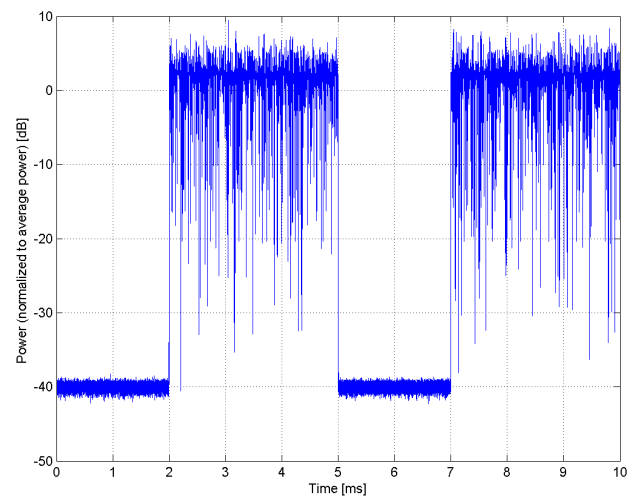
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10465-AAD

PAR: ¹ **8.32 dB**
MIF: ² **-3.18 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

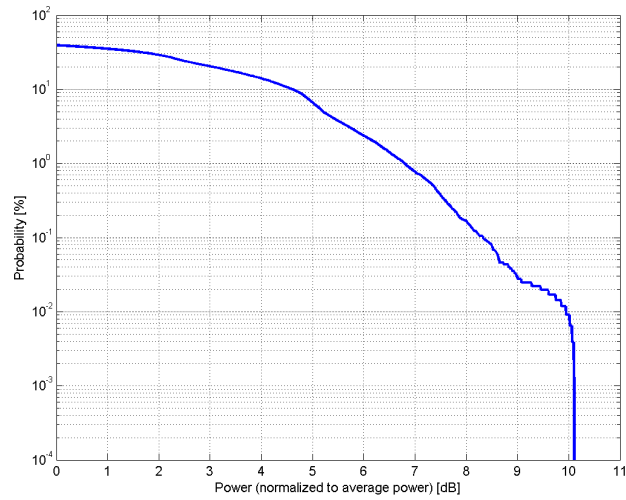
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

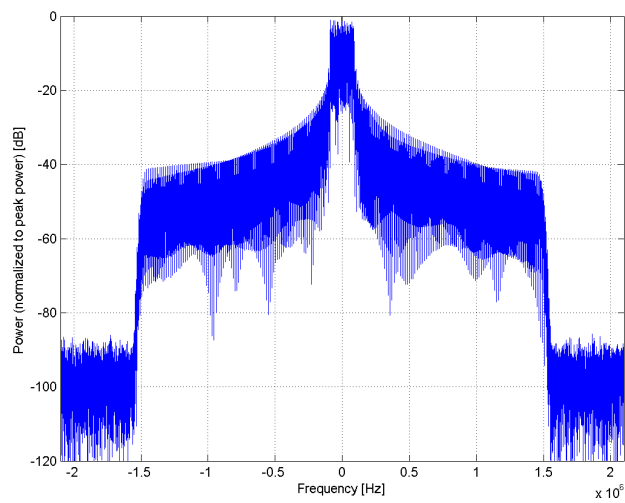
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

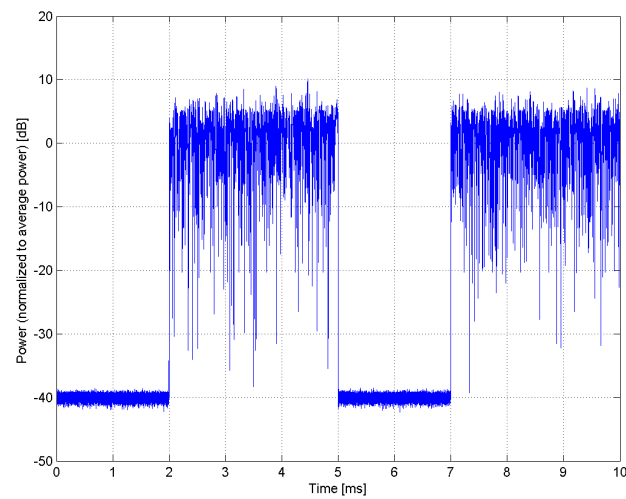
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10466-AAD

PAR: ¹ **8.57 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

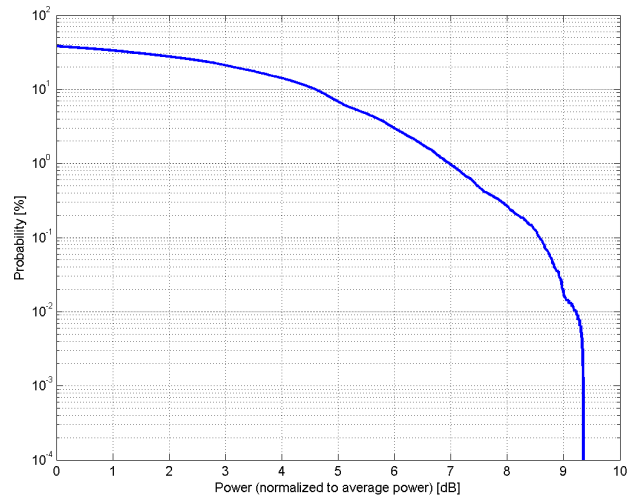
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 7
Data Type: PN9fix

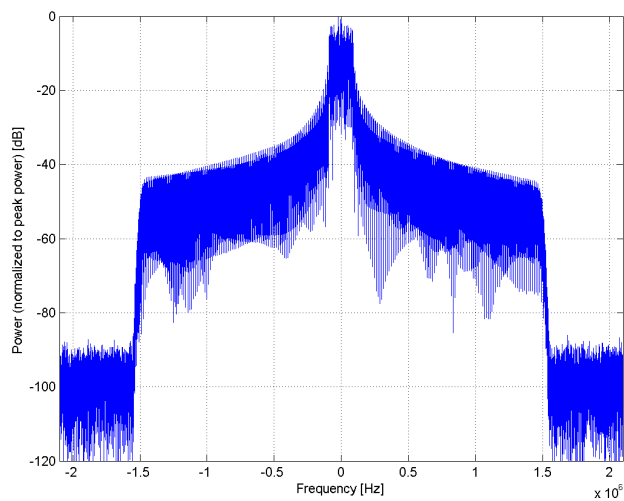
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

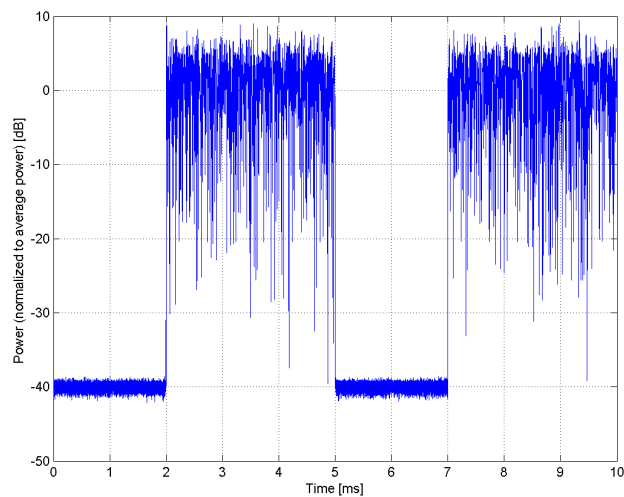
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10467-AAG

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

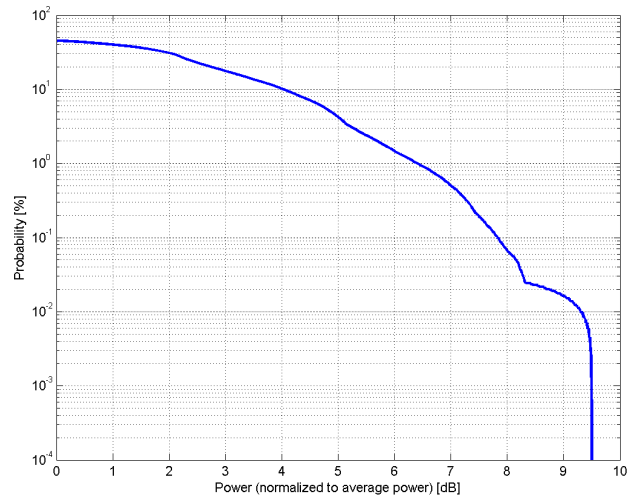
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 12
Data Type: PN9fix

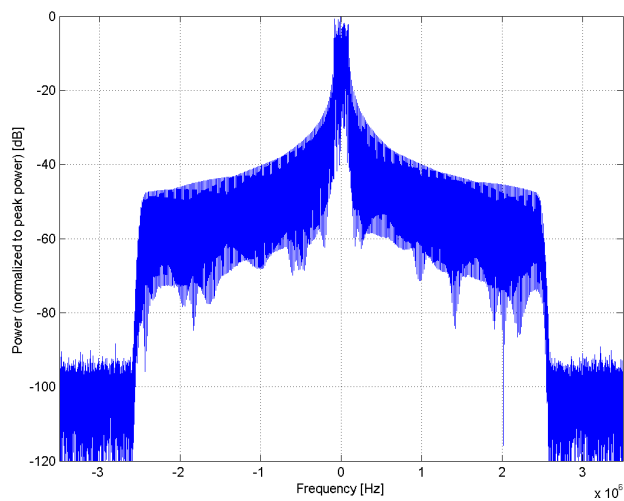
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

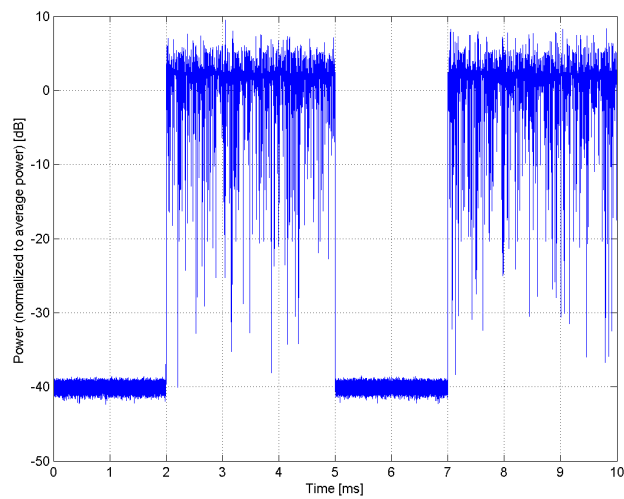
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



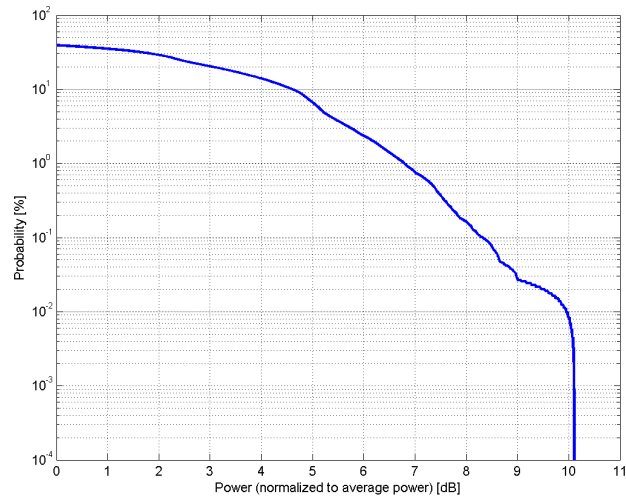
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

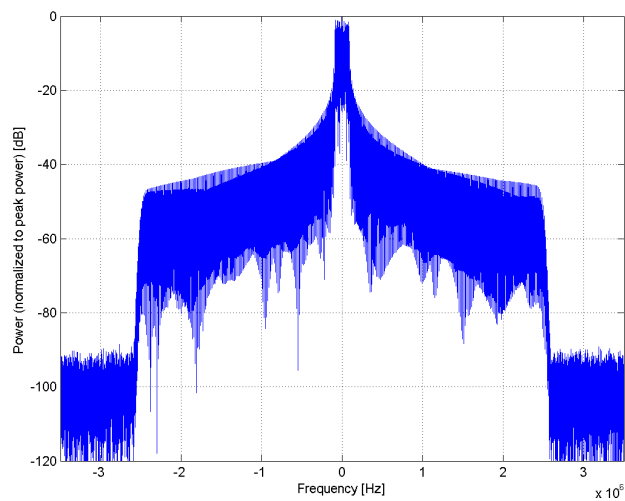
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) |
| Group: | LTE-TDD |
| UID: | 10468-AAG |
| PAR: ¹ | 8.32 dB |
| MIF: ² | -3.18 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 12 Data Type: PN9fix |
| Bandwidth: | 5.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

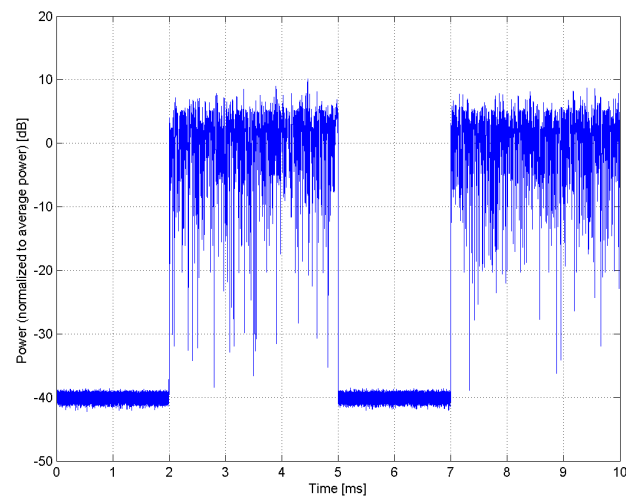
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10469-AAG

PAR: ¹ **8.56 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

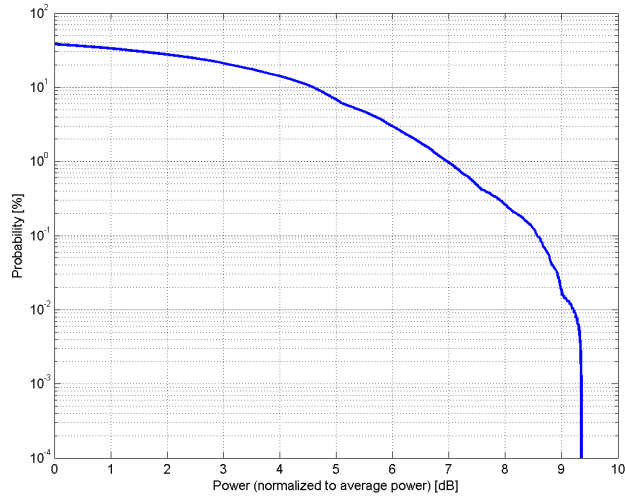
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 12
Data Type: PN9fix

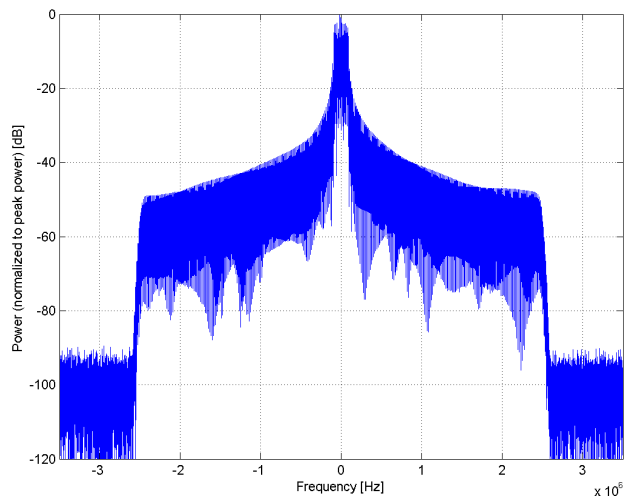
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

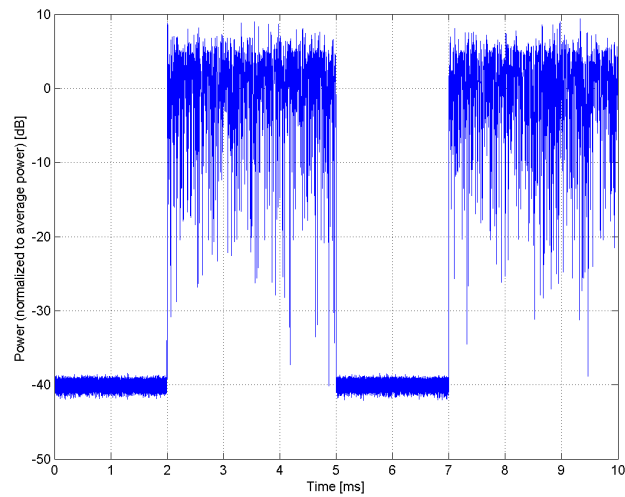
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10470-AAG

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

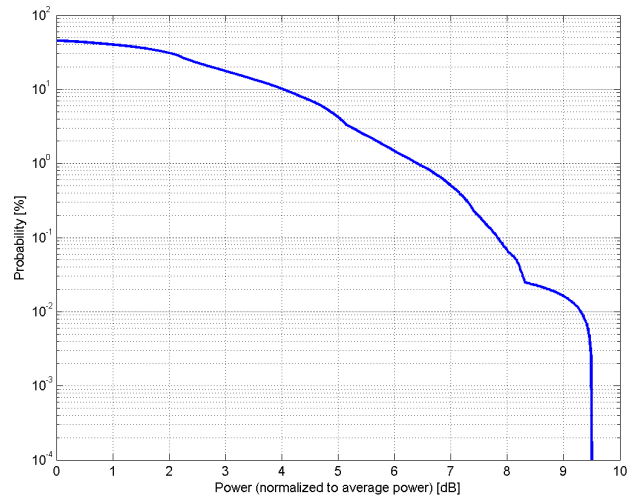
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 25
Data Type: PN9fix

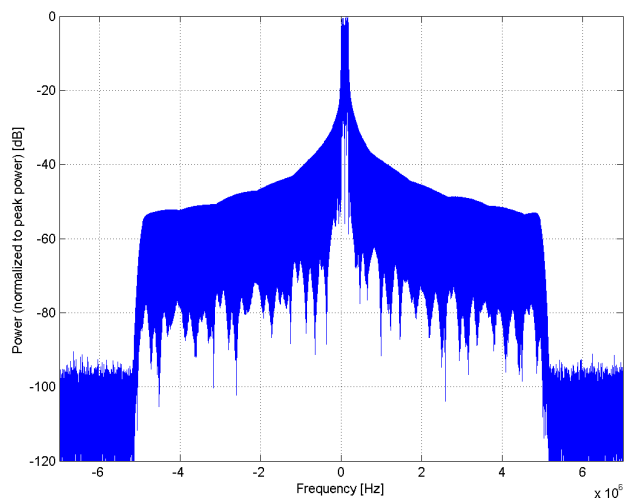
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

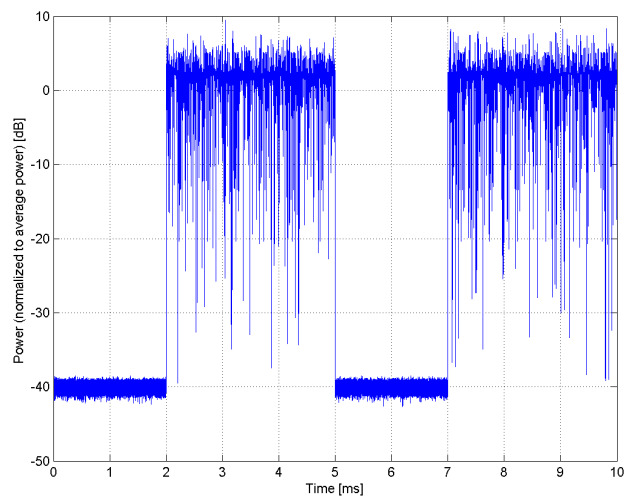
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10471-AAG

PAR: ¹ **8.32 dB**
MIF: ² **-3.17 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

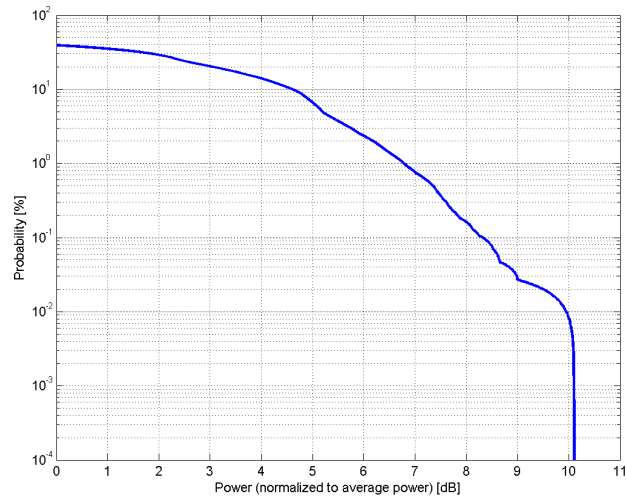
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 25
Data Type: PN9fix

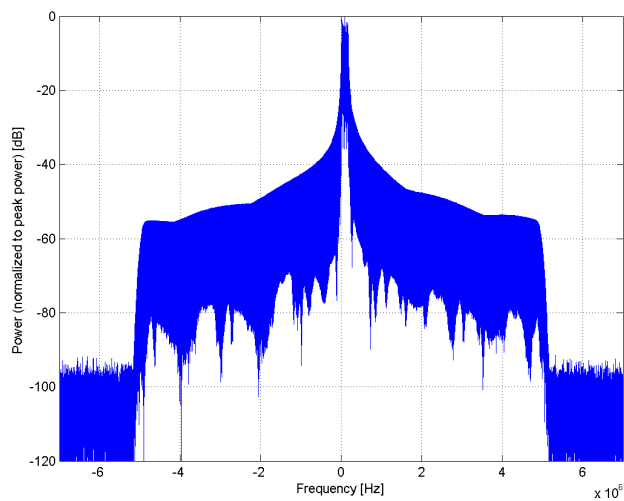
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

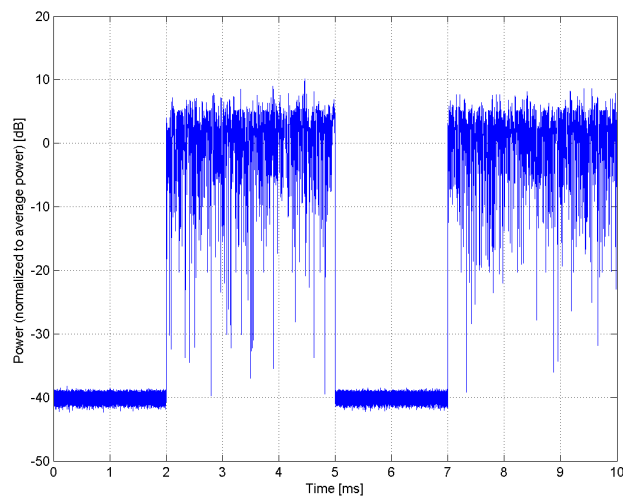
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10472-AAG

PAR: ¹ **8.57 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

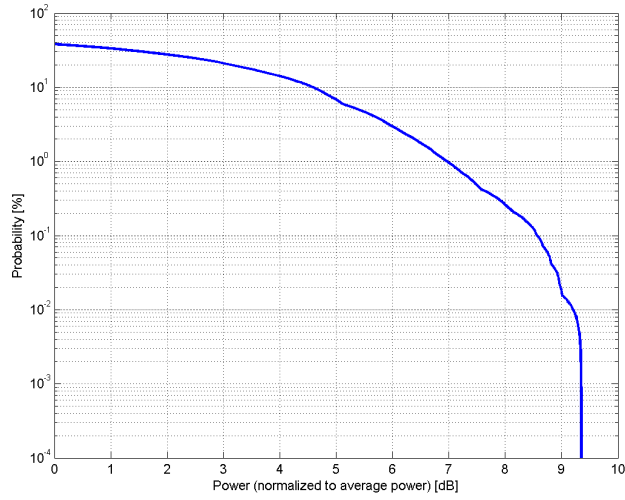
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 25
Data Type: PN9fix

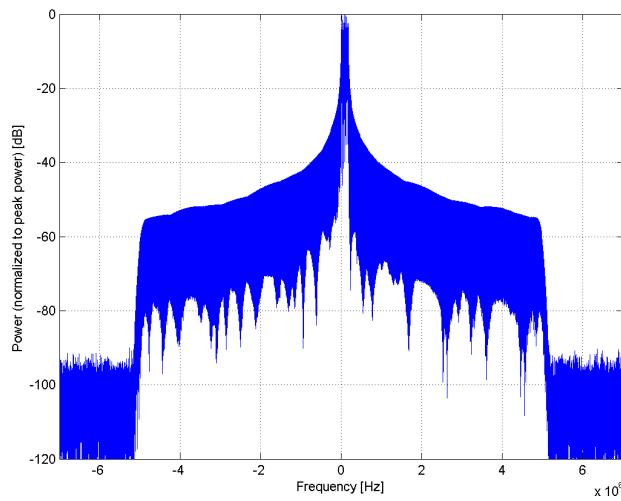
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

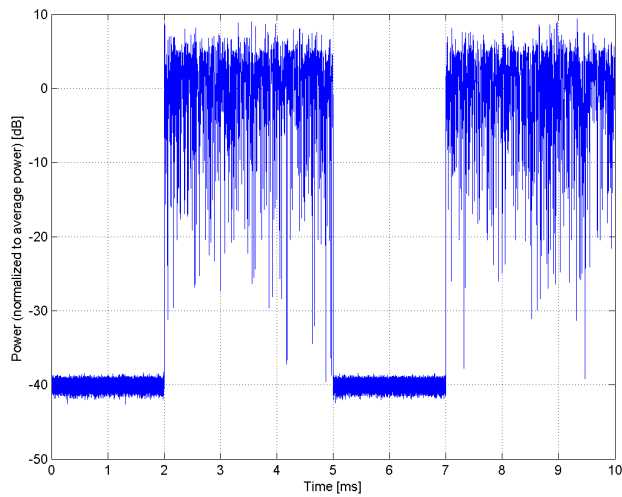
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10473-AAF

PAR: ¹ **7.82 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

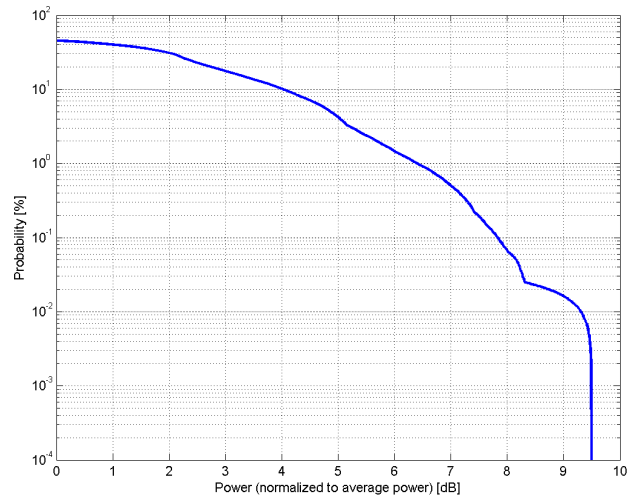
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

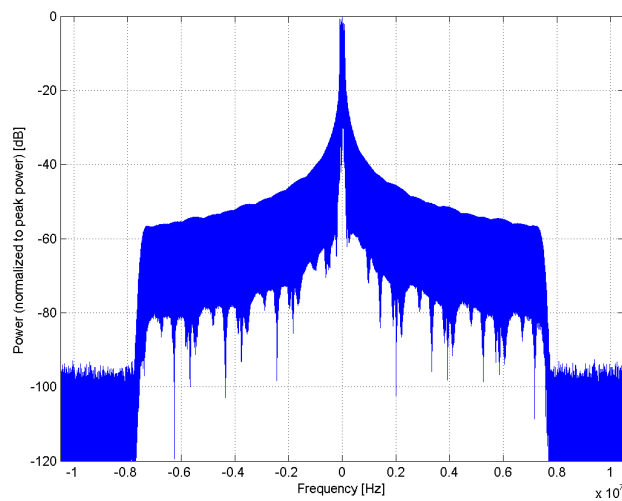
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

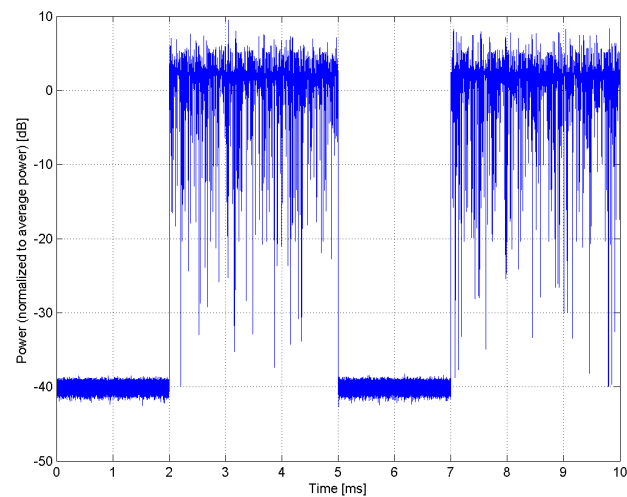
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10474-AAF

PAR: ¹ **8.32 dB**
MIF: ² **-3.17 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

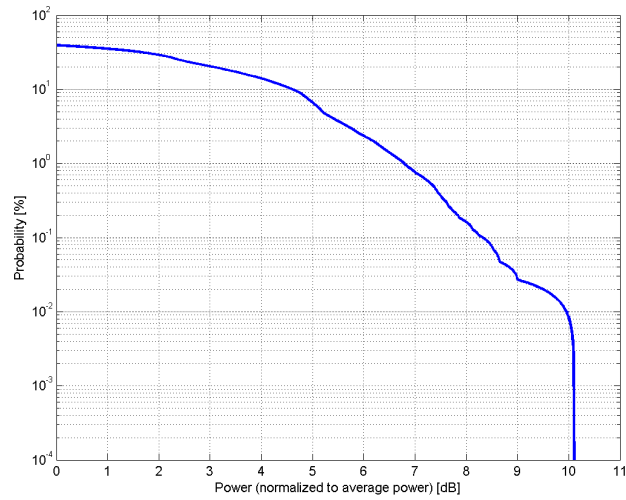
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

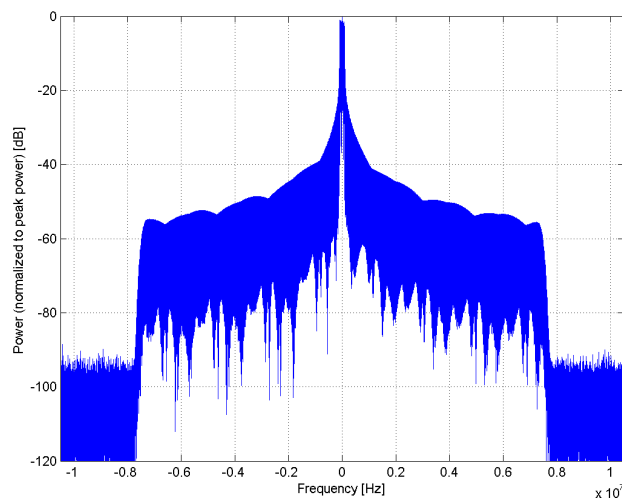
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

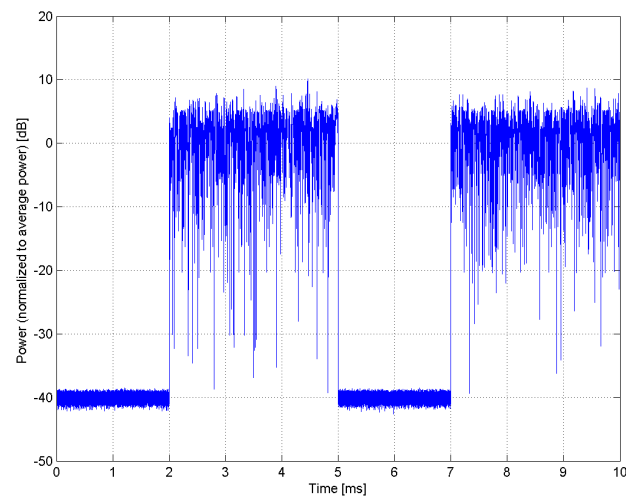
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10475-AAF

PAR: ¹ **8.57 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

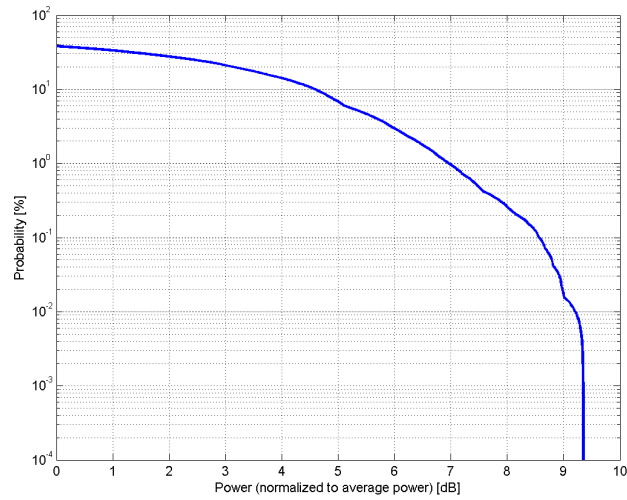
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 37
Data Type: PN9fix

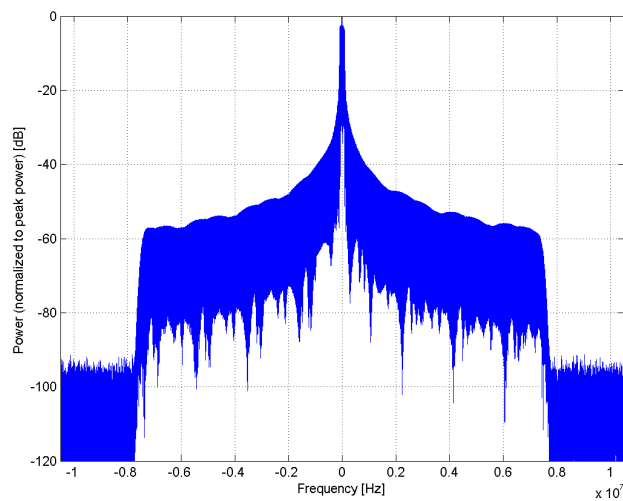
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

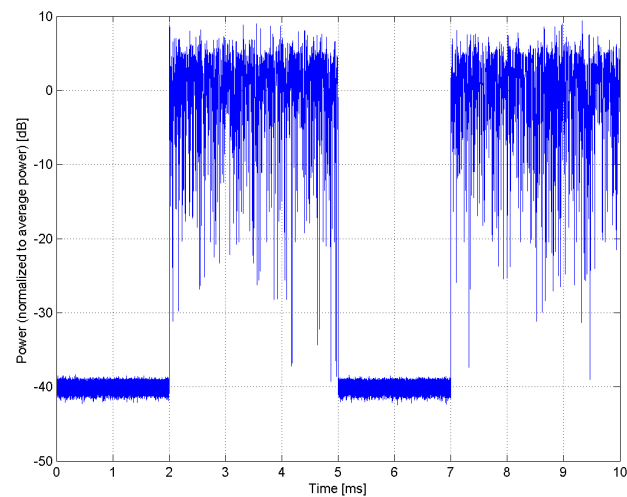
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



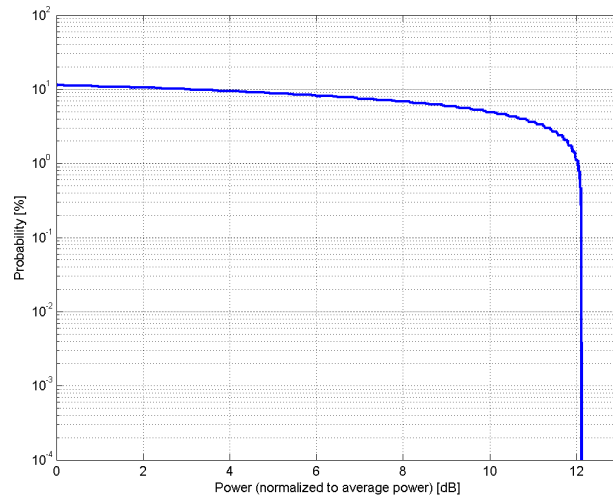
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

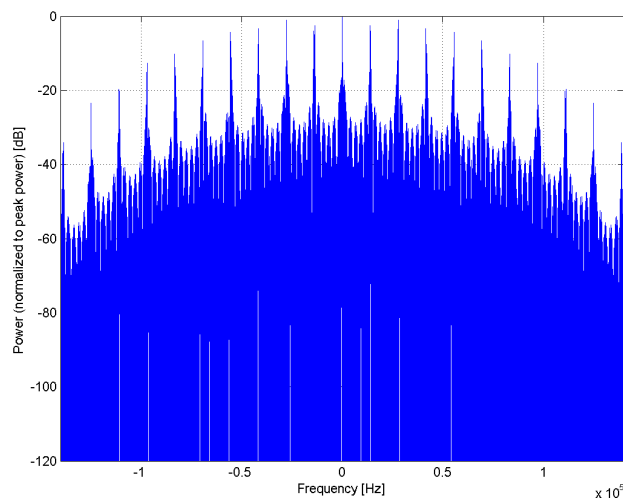
| | |
|-------------------------|--|
| Name: | MRI (Custom, 600us, 2.7ms) |
| Group: | MRI |
| UID: | 10476-AAC |
| PAR: ¹ | 12.10 dB |
| MIF: ² | -6.13 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) |
| Bandwidth: | 0.2MHz |
| Integration Time: | 2.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

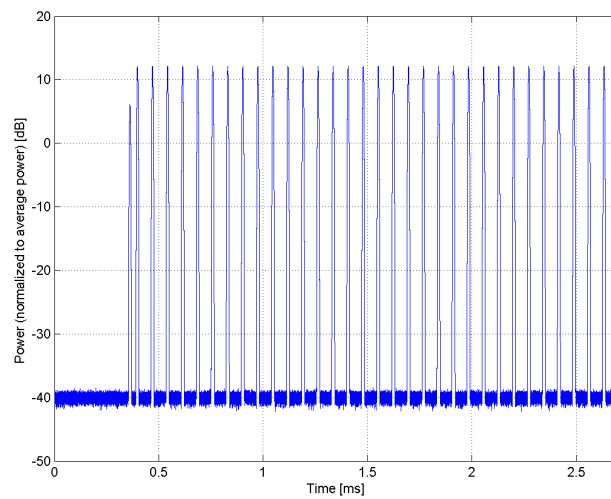
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10477-AAG

PAR: ¹ **8.32 dB**
MIF: ² **-3.17 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

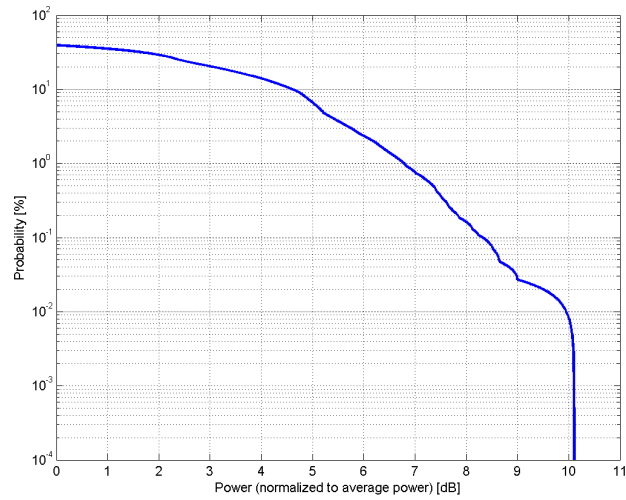
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

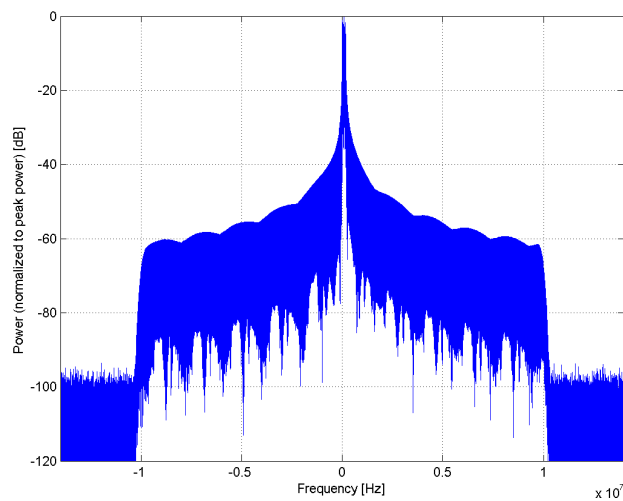
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

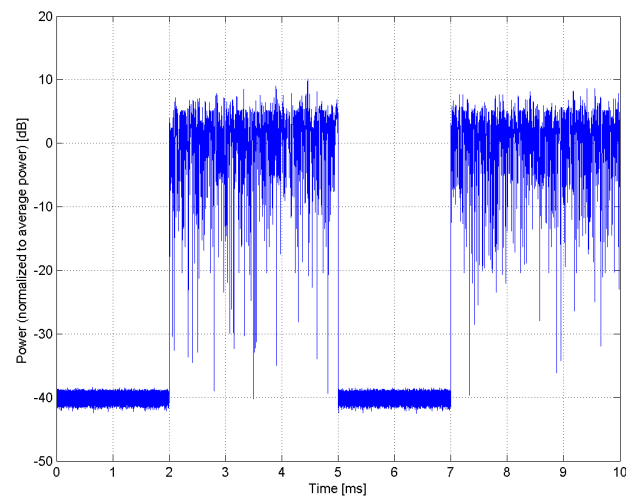
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10478-AAG

PAR: ¹ **8.57 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

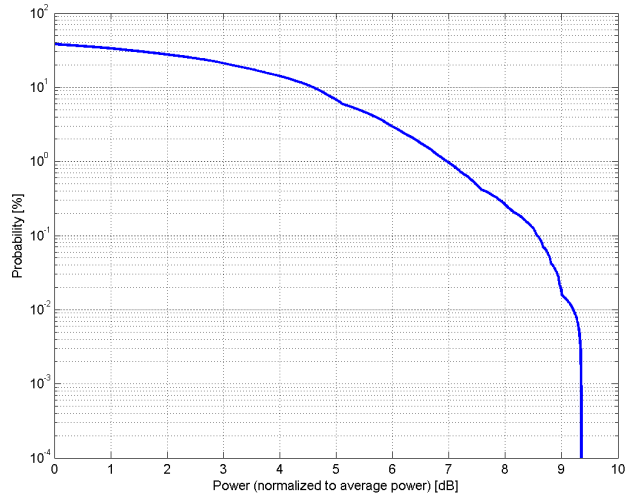
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

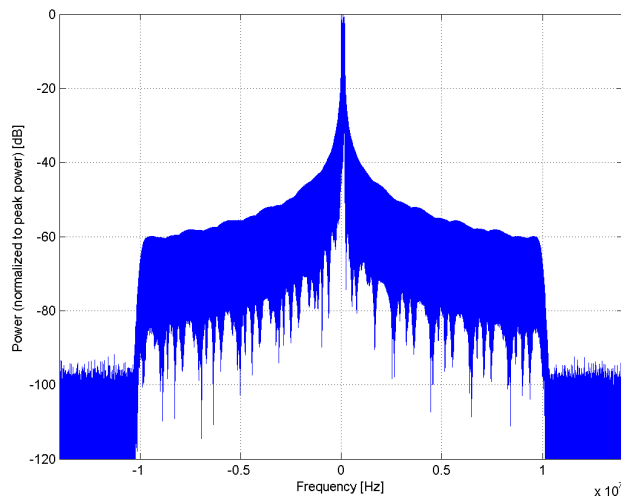
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

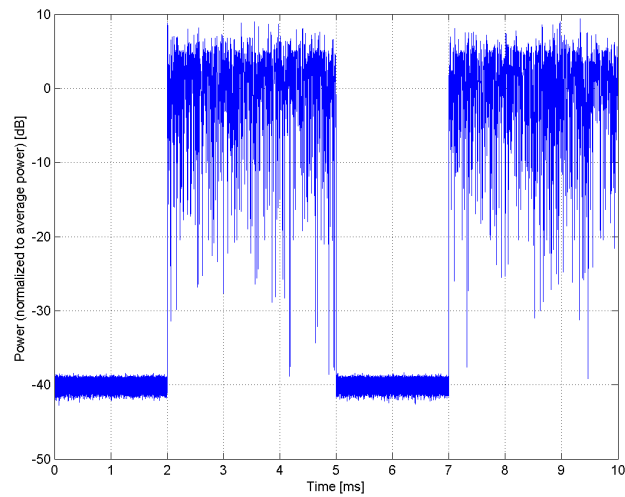
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10479-AAC

PAR: ¹ **7.74 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

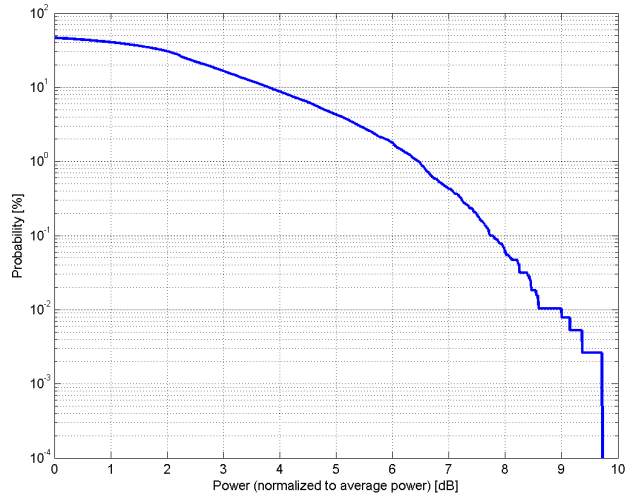
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

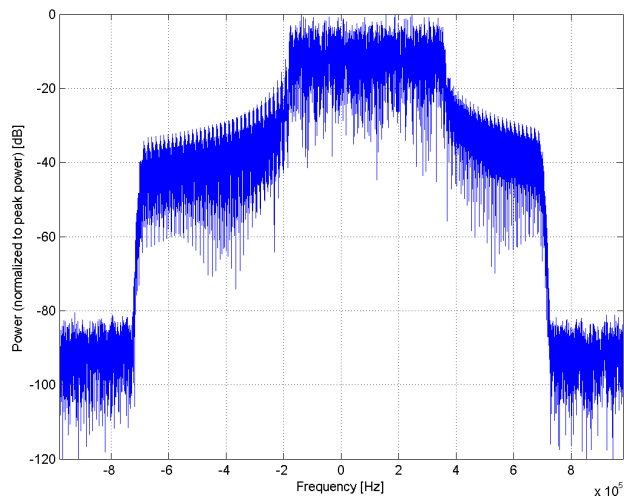
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

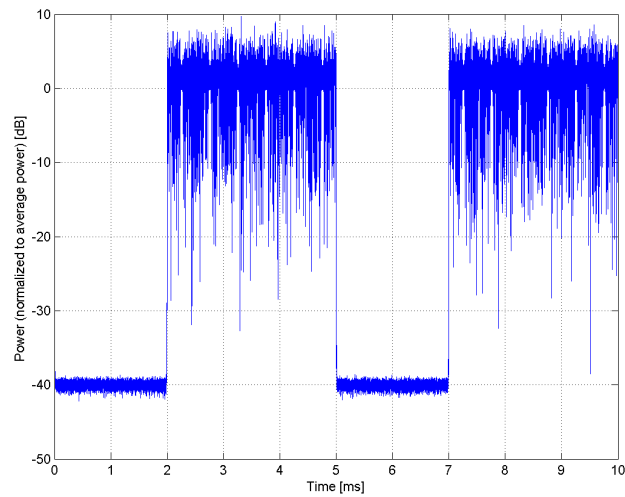
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10480-AAC

PAR: ¹ **8.18 dB**
MIF: ² **-3.37 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

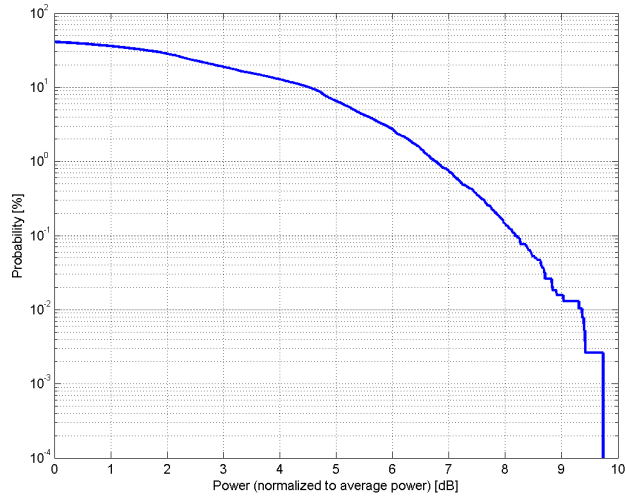
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

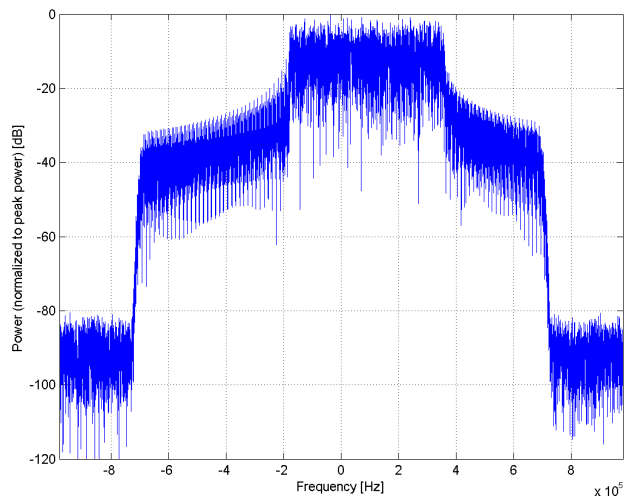
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

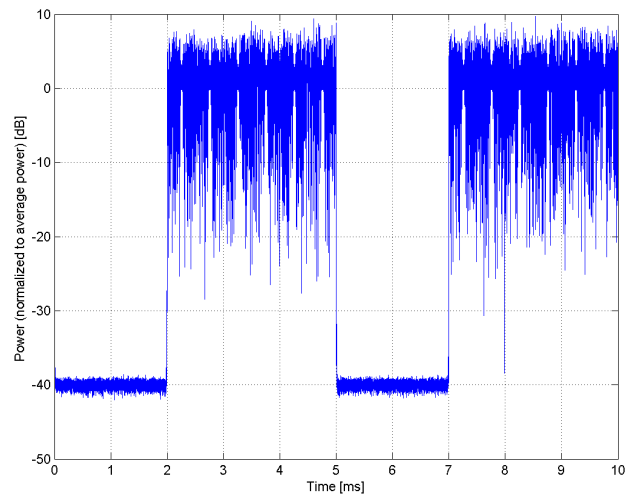
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10481-AAC

PAR: ¹ **8.45 dB**
MIF: ² **-3.31 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

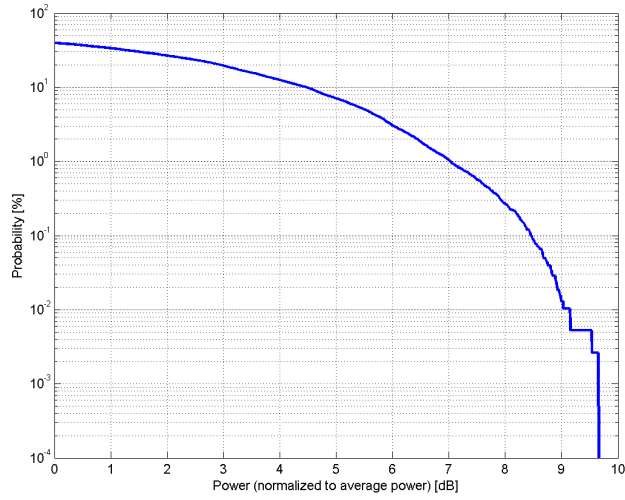
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 3
Start Number of RB: 2
Data Type: PN9fix

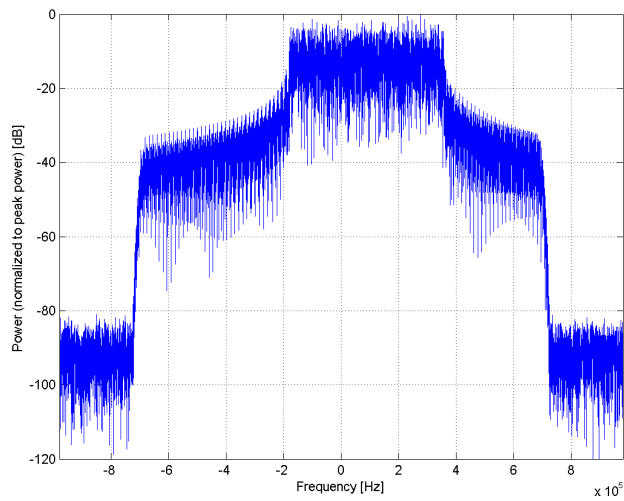
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

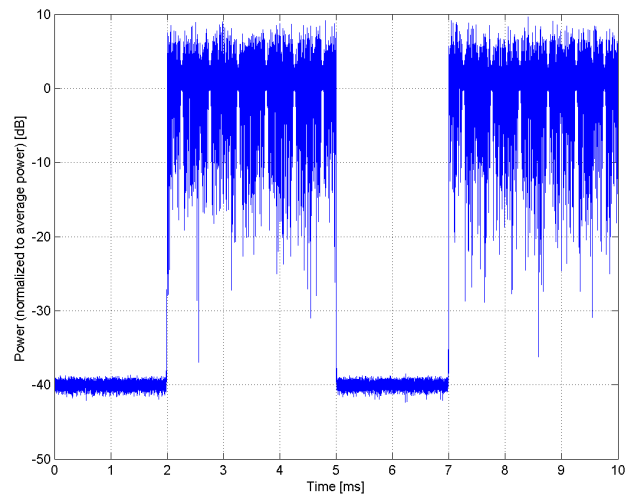
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10482-AAD

PAR: ¹ **7.71 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

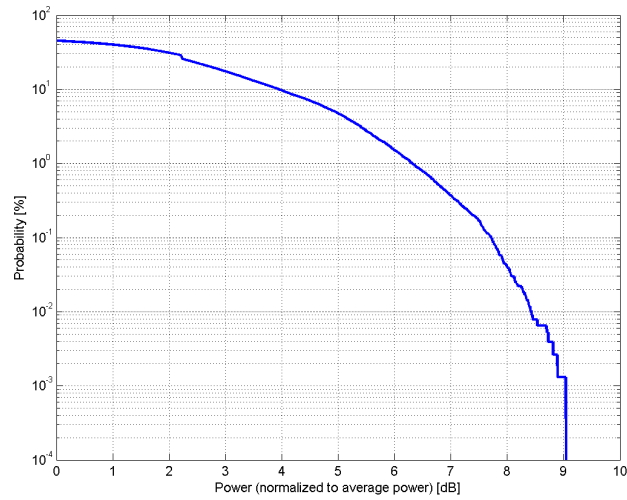
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 8
Start Number of RB: 3
Data Type: PN9fix

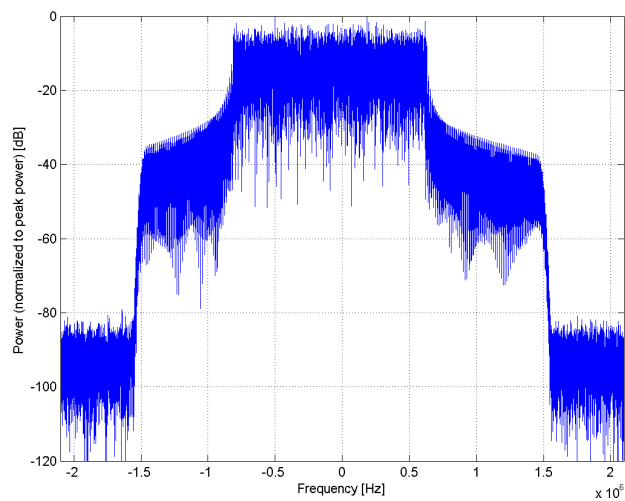
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

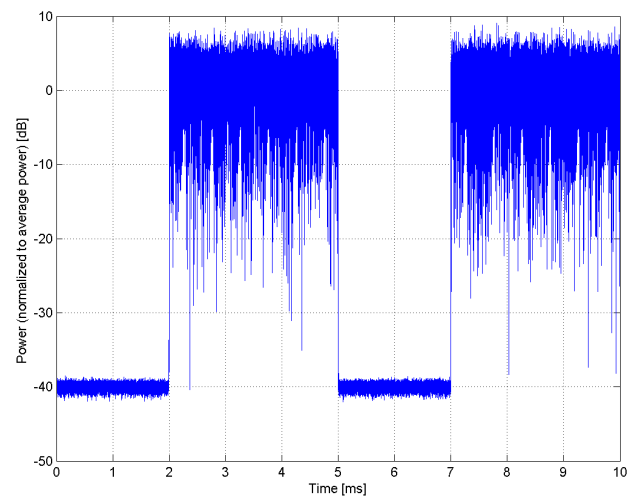
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10483-AAD

PAR: ¹ **8.39 dB**
MIF: ² **-3.46 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

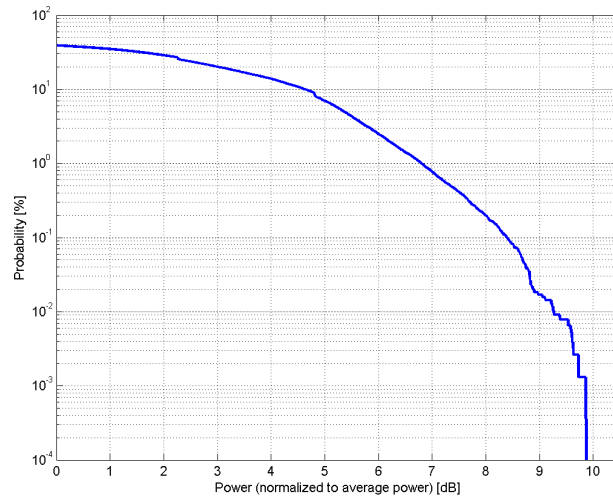
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 8
Start Number of RB: 3
Data Type: PN9fix

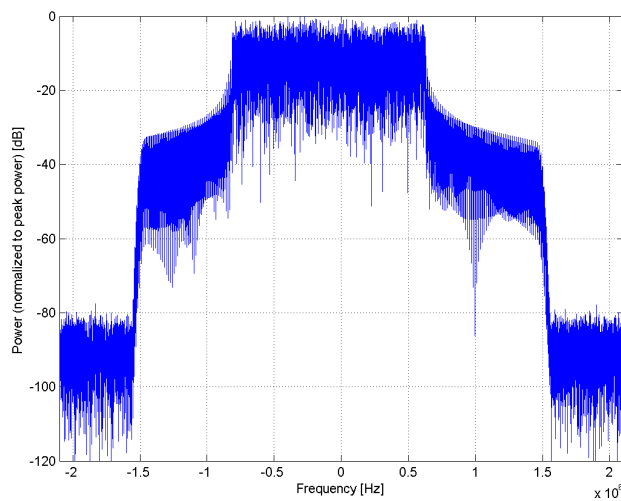
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

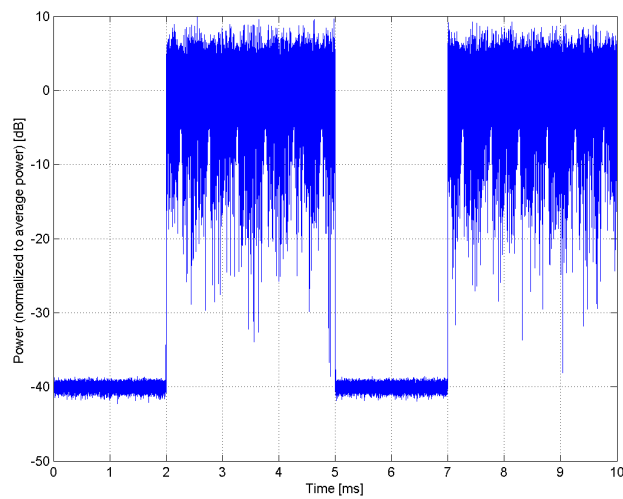
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10484-AAD

PAR: ¹ **8.47 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

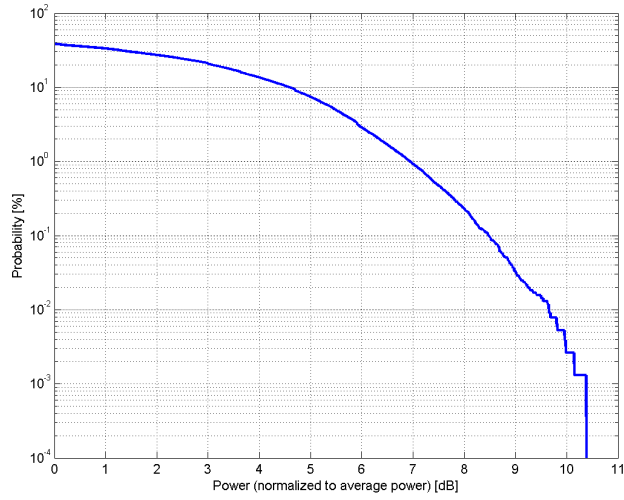
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 8
Start Number of RB: 3
Data Type: PN9fix

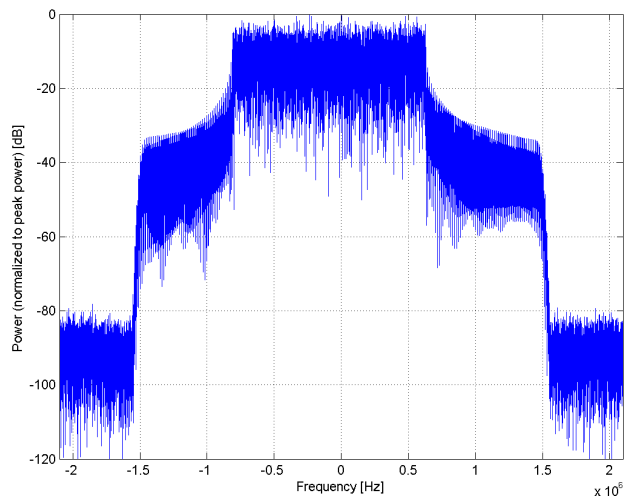
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

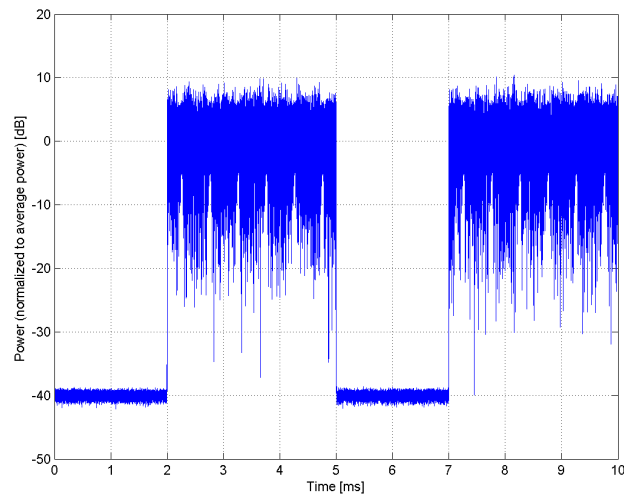
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10485-AAG

PAR: ¹ **7.59 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

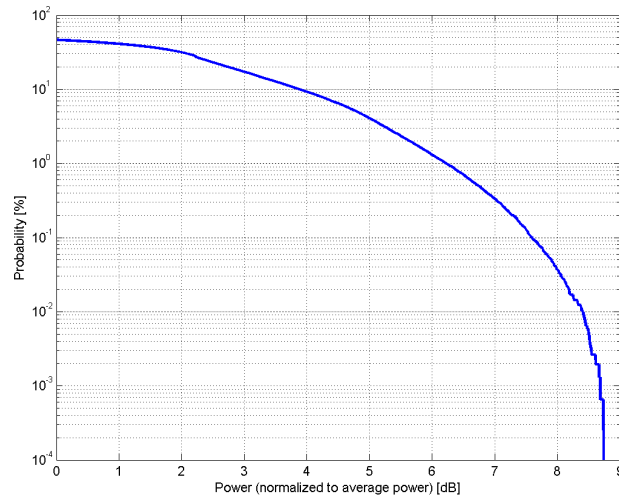
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 12
Start Number of RB: 7
Data Type: PN9fix

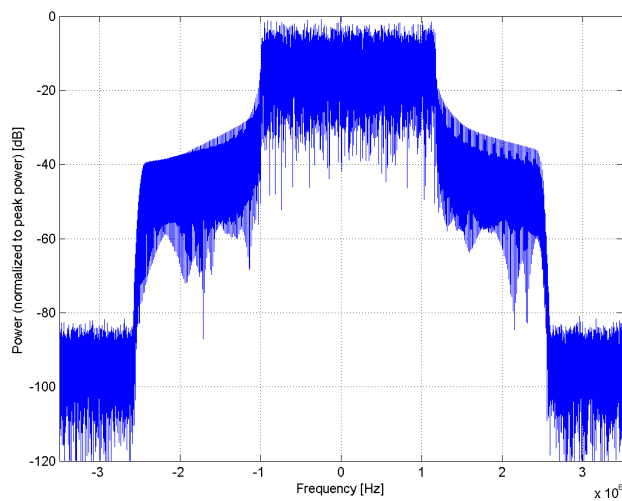
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

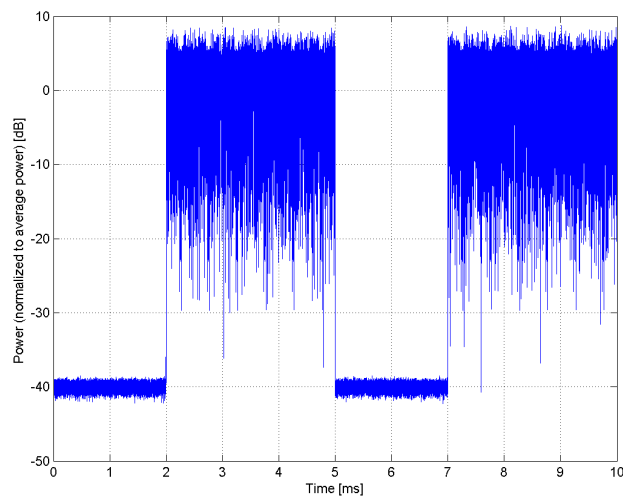
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10486-AAG

PAR: ¹ **8.38 dB**
MIF: ² **-3.46 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

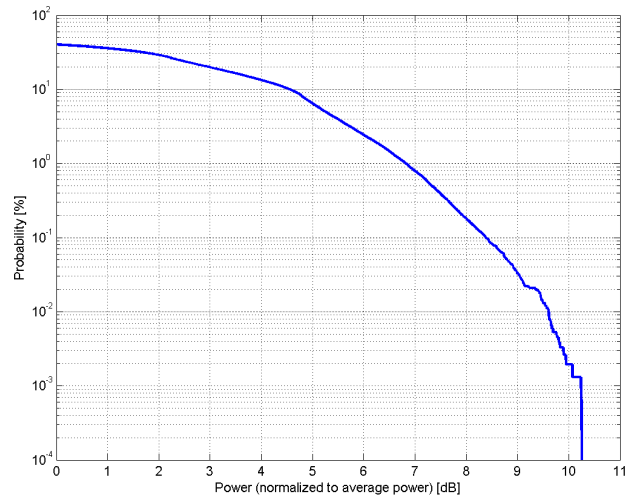
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 12
Start Number of RB: 7
Data Type: PN9fix

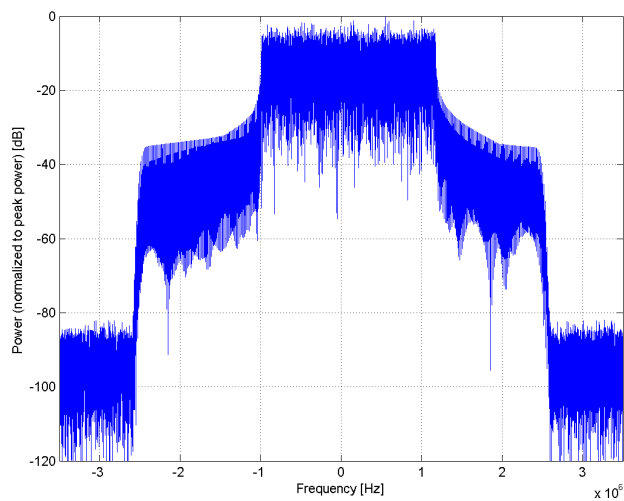
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

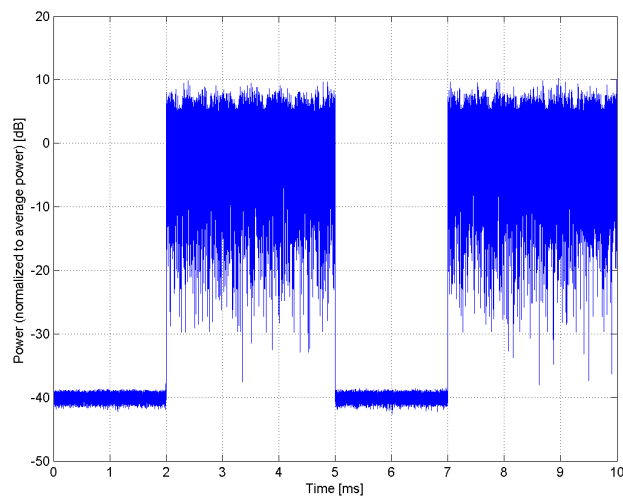
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10487-AAG

PAR: ¹ **8.60 dB**
MIF: ² **-3.33 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

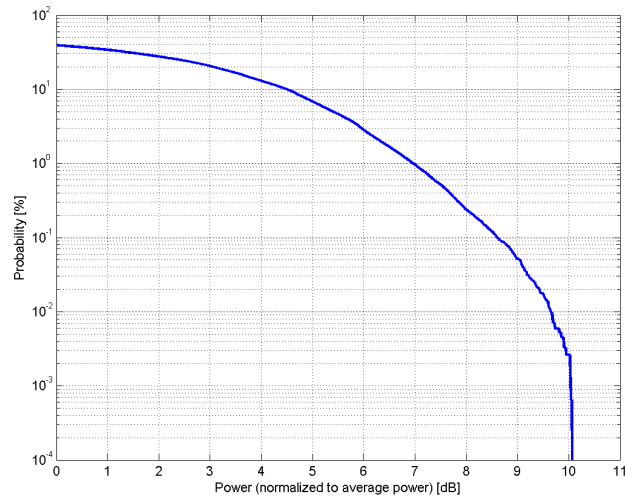
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 12
Start Number of RB: 7
Data Type: PN9fix

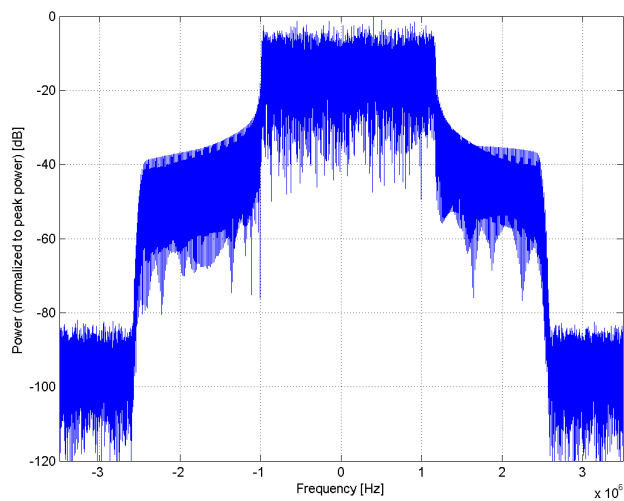
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

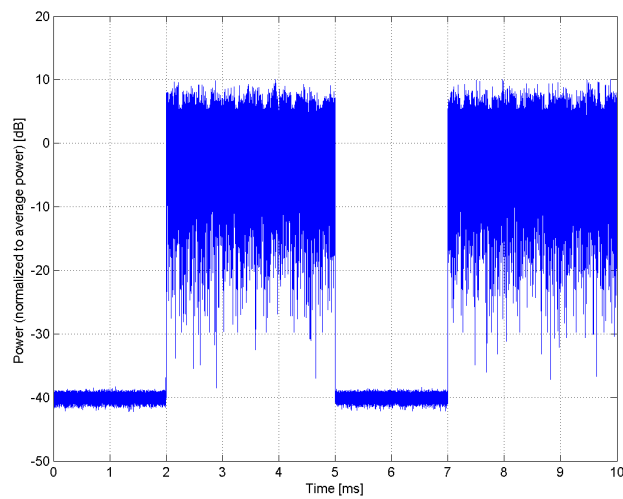
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10488-AAG

PAR: ¹ **7.70 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

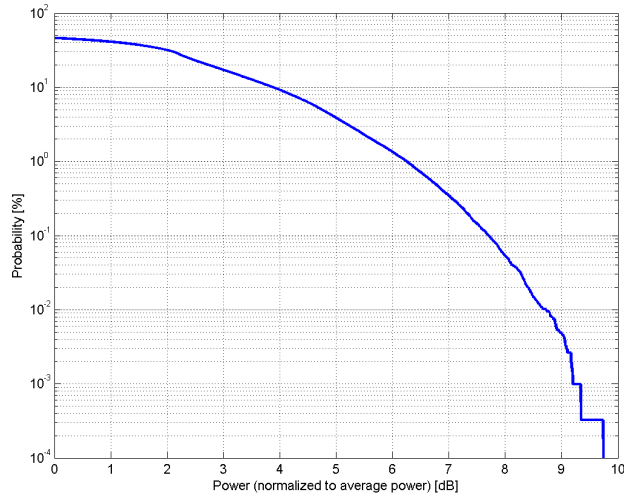
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 13
Data Type: PN9fix

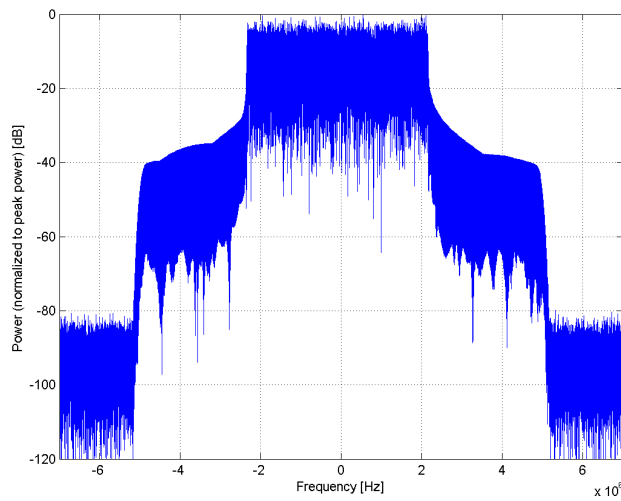
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

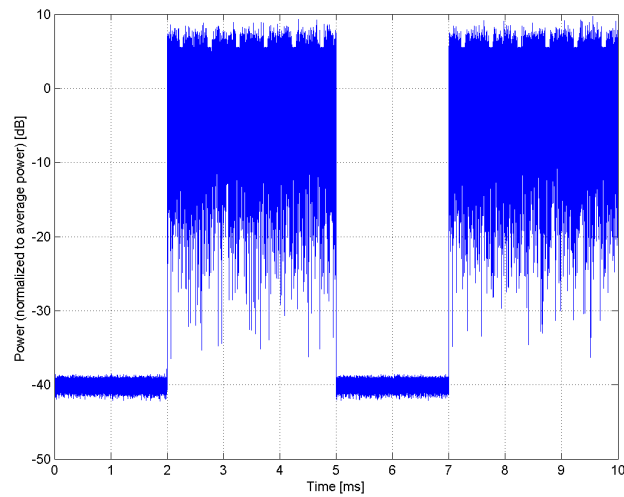
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



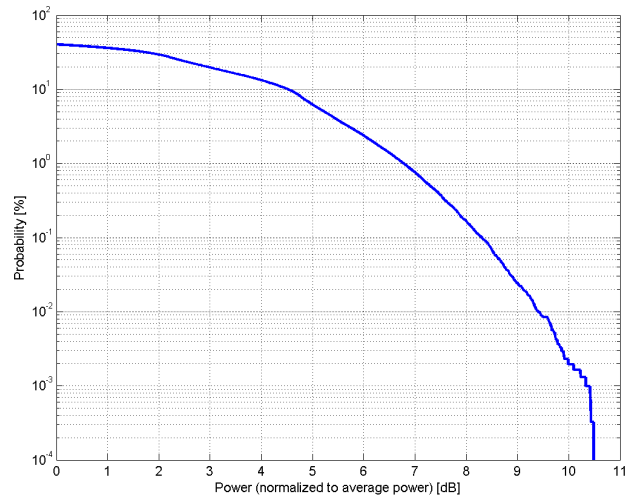
Time Domain

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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

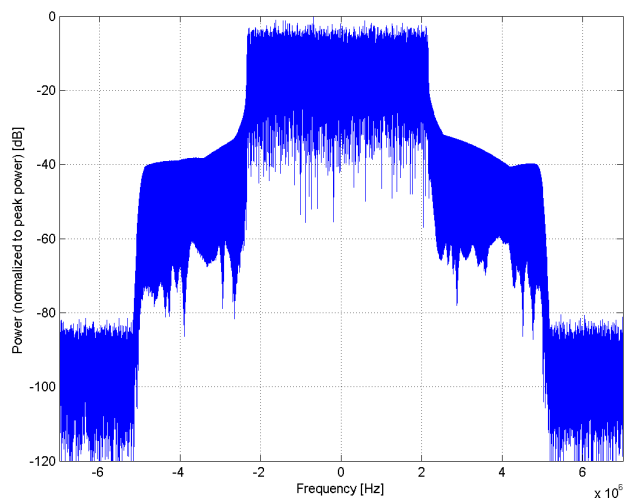
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) |
| Group: | LTE-TDD |
| UID: | 10489-AAG |
| PAR: ¹ | 8.31 dB |
| MIF: ² | -3.43 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

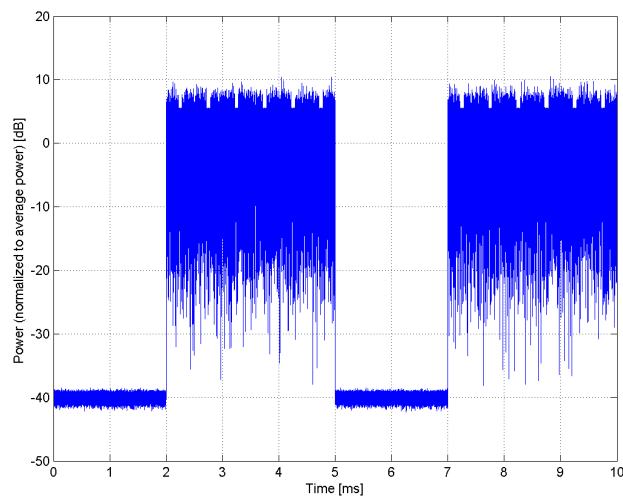
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



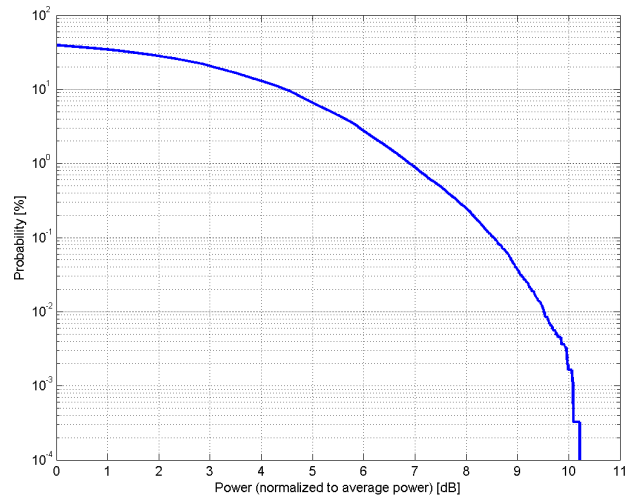
Time Domain

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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

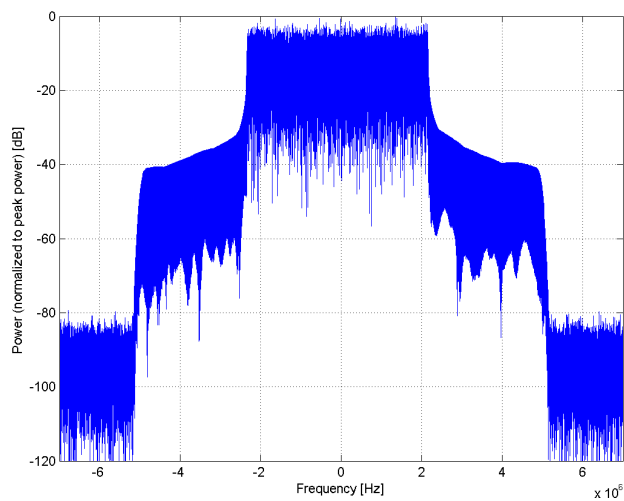
| | |
|-------------------------|--|
| Name: | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) |
| Group: | LTE-TDD |
| UID: | 10490-AAG |
| PAR: ¹ | 8.54 dB |
| MIF: ² | -3.41 dB |
| Standard Reference: | 3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 |
| Category: | Random amplitude modulation |
| Modulation: | 64-QAM |
| Frequency Band: | Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix |
| Bandwidth: | 10.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

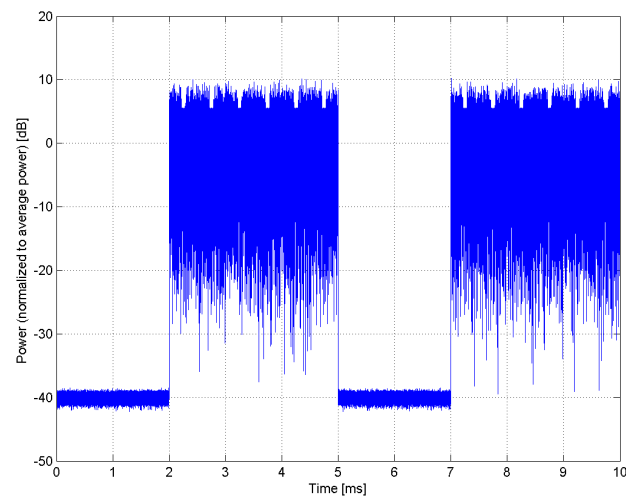
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10491-AAF

PAR: ¹ **7.74 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

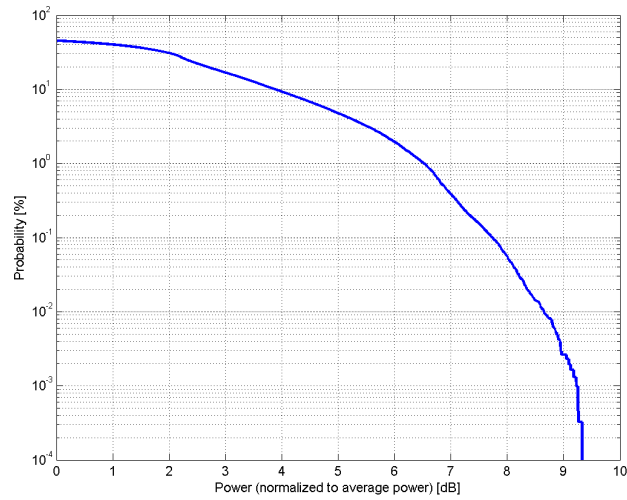
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

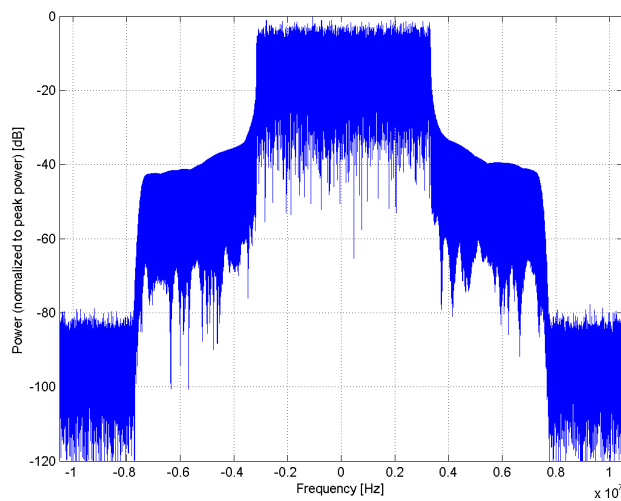
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

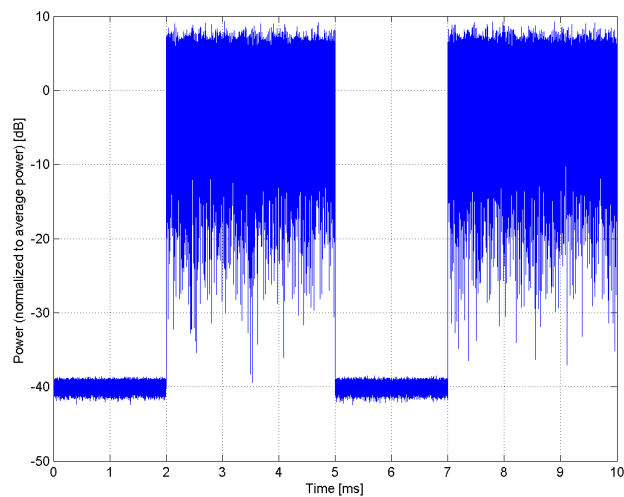
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10492-AAF

PAR: ¹ **8.41 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

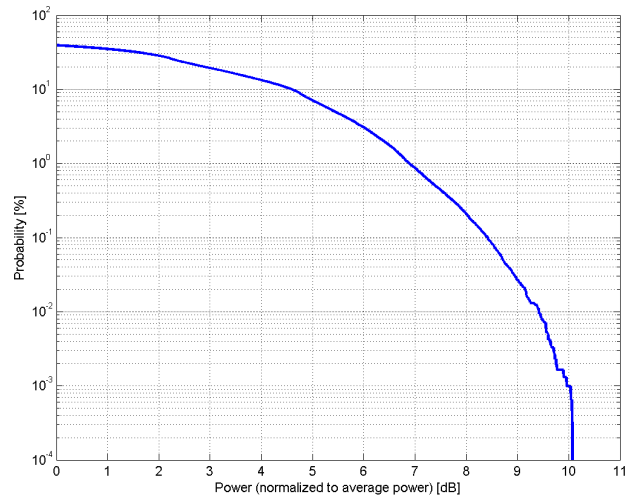
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

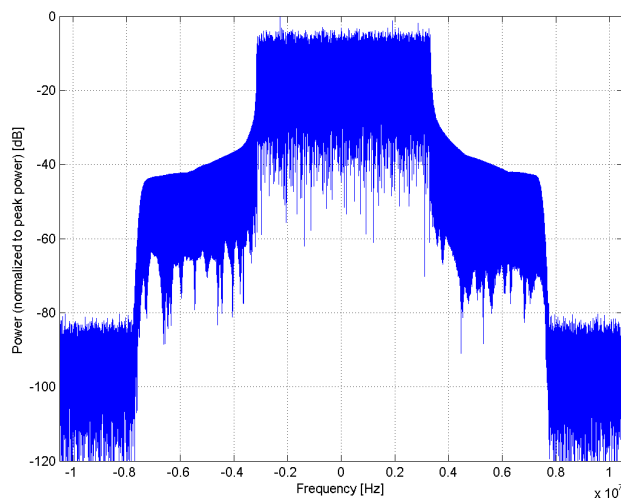
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

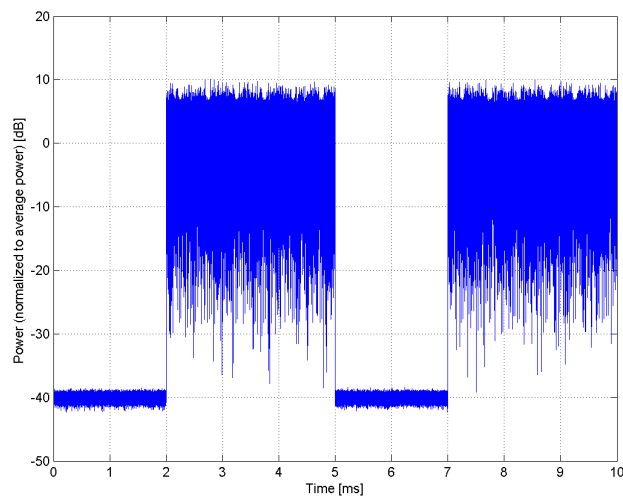
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10493-AAF

PAR: ¹ **8.55 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

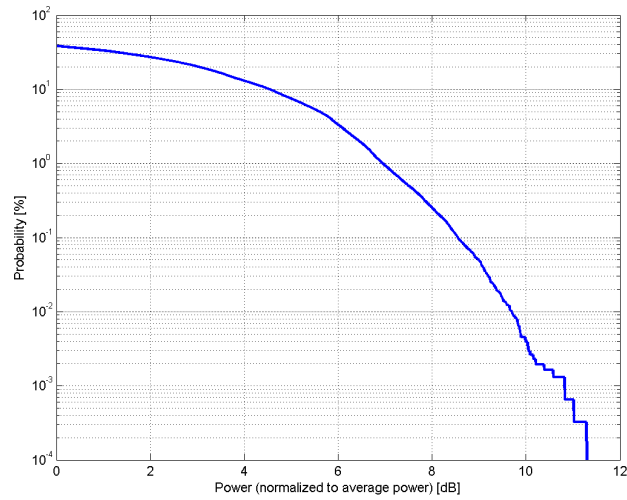
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

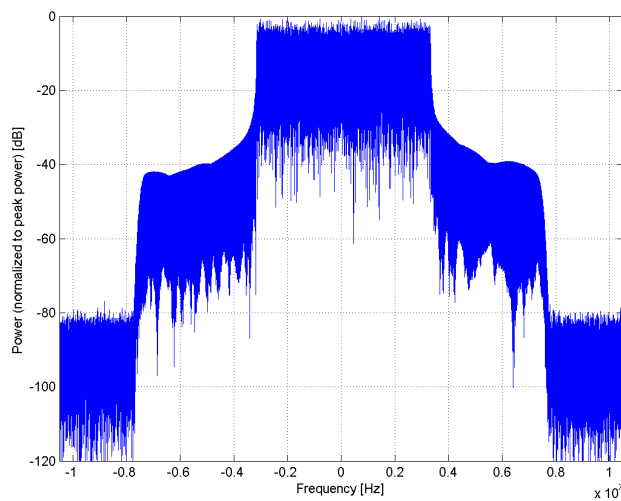
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

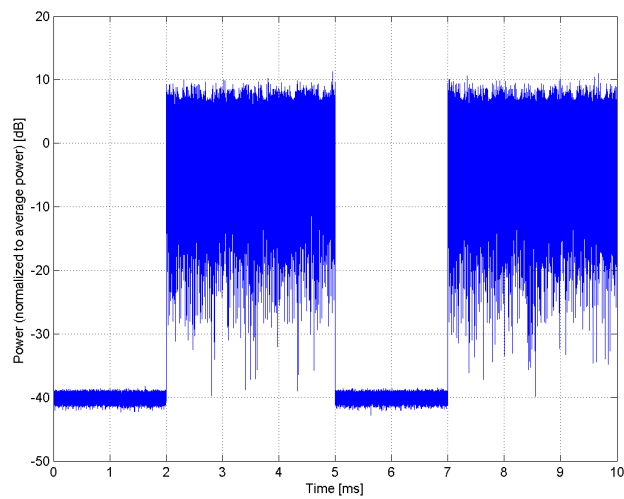
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10494-AAG

PAR: ¹ **7.74 dB**
MIF: ² **-3.39 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

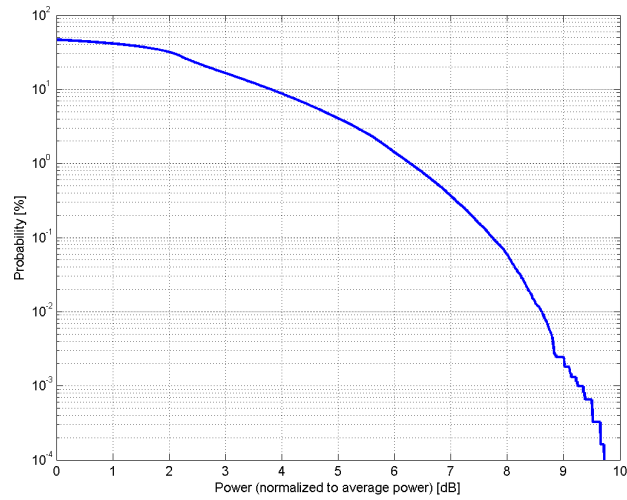
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

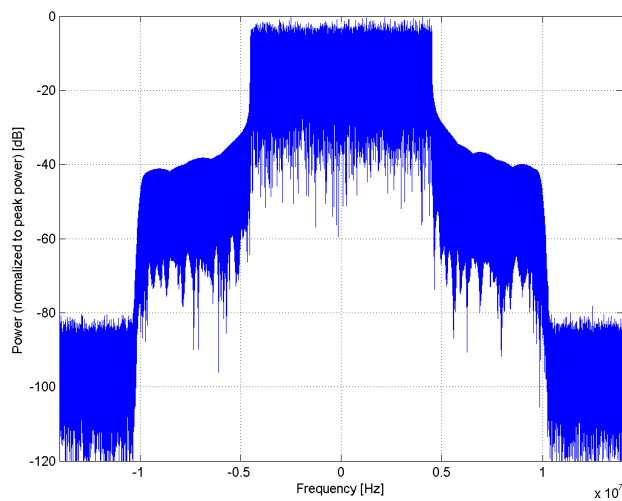
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

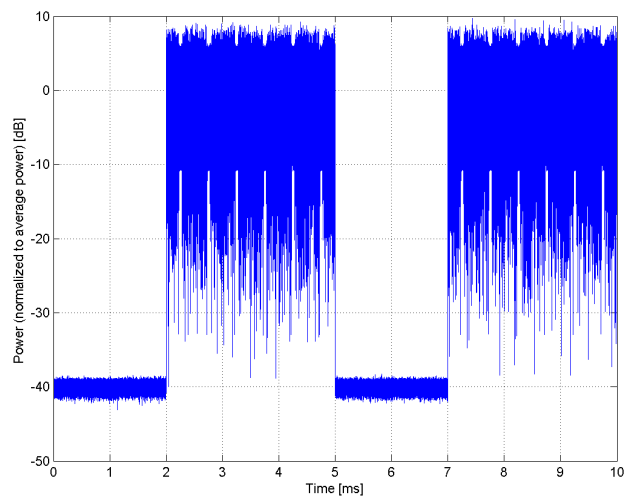
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10495-AAG

PAR: ¹ **8.37 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

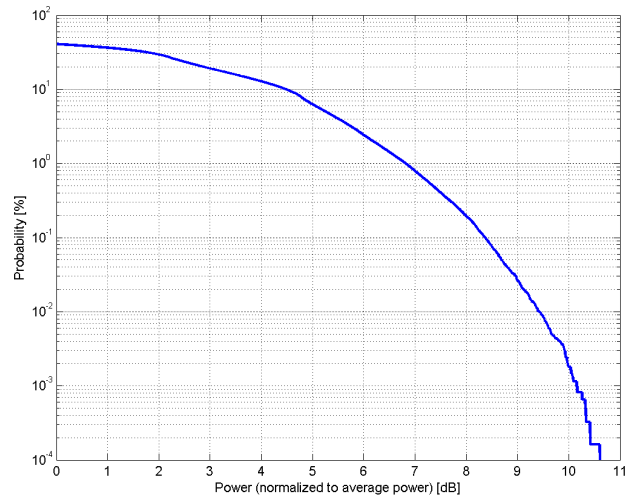
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

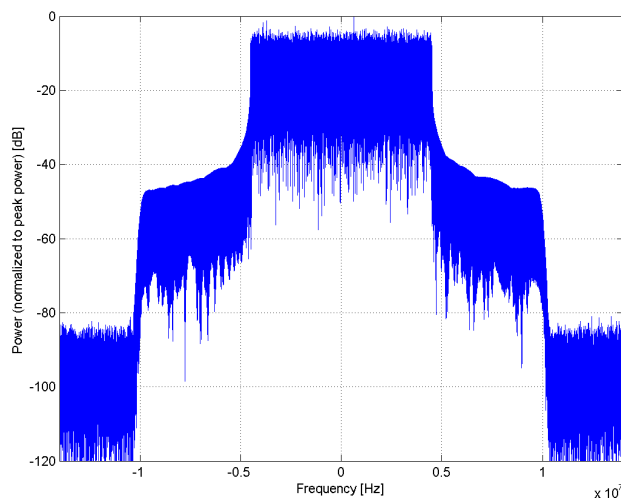
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

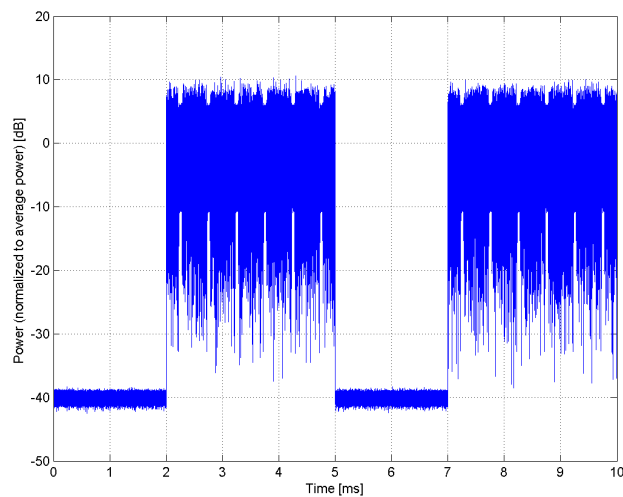
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10496-AAG

PAR: ¹ **8.54 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

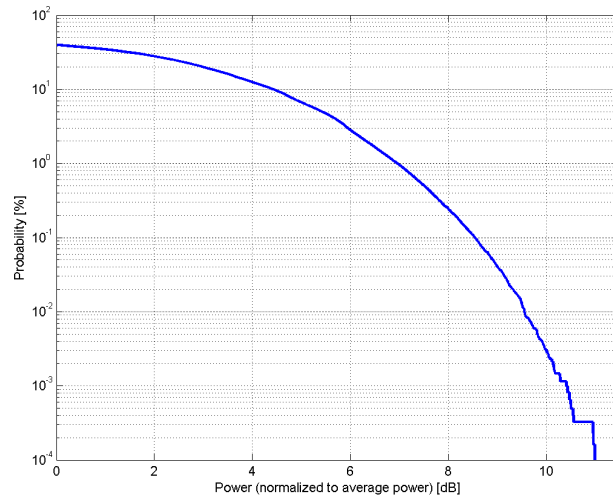
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix

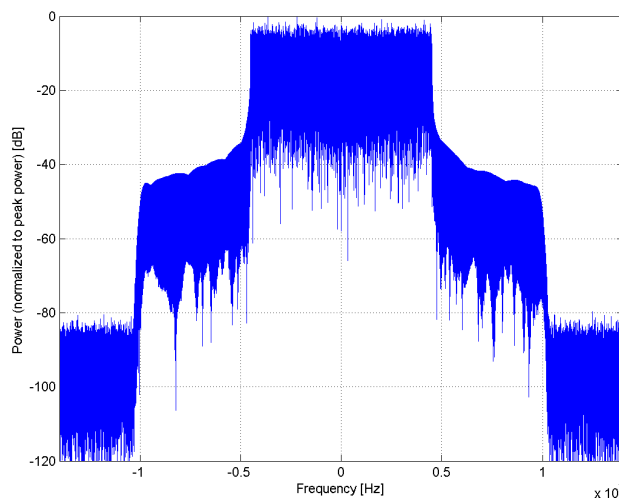
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

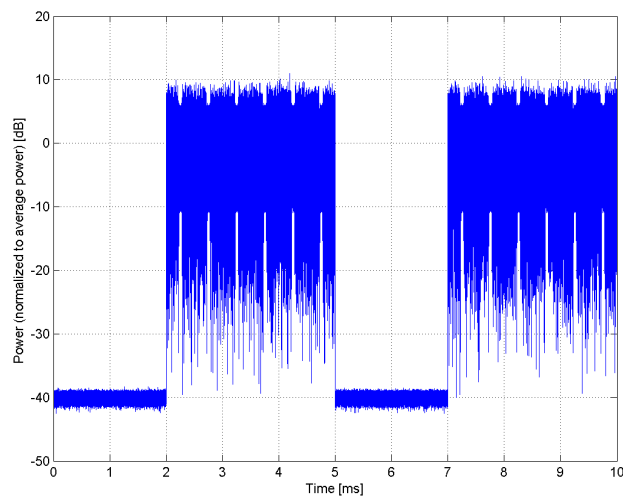
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10497-AAC

PAR: ¹ **7.67 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

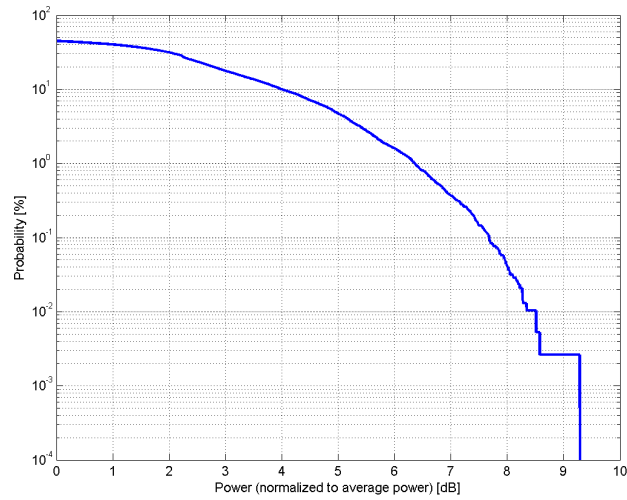
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

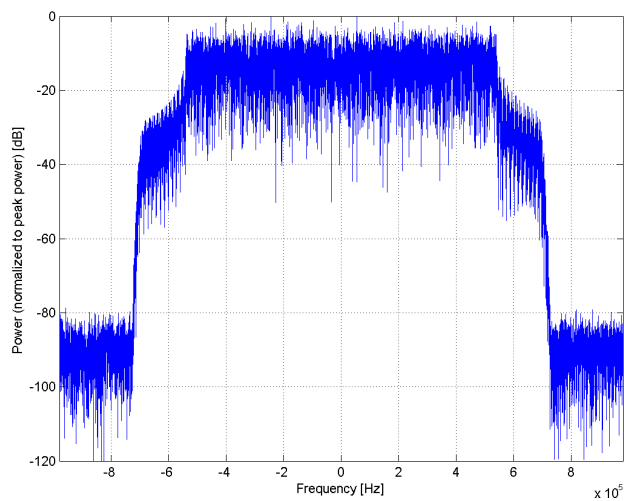
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

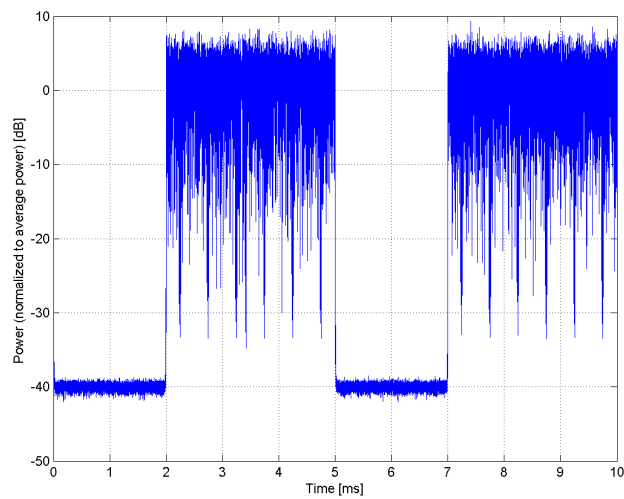
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10498-AAC

PAR: ¹ **8.40 dB**
MIF: ² **-3.46 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

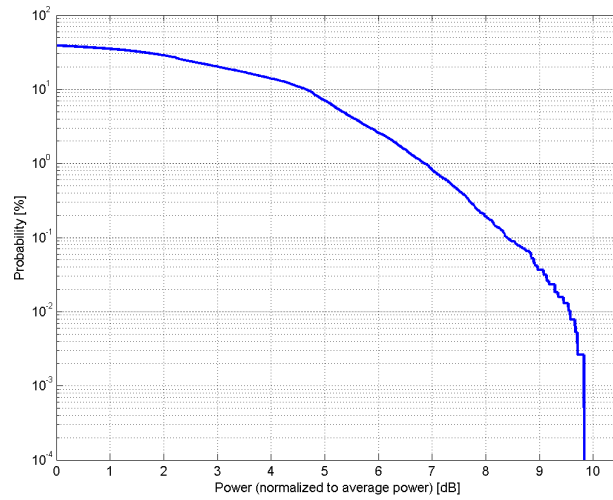
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

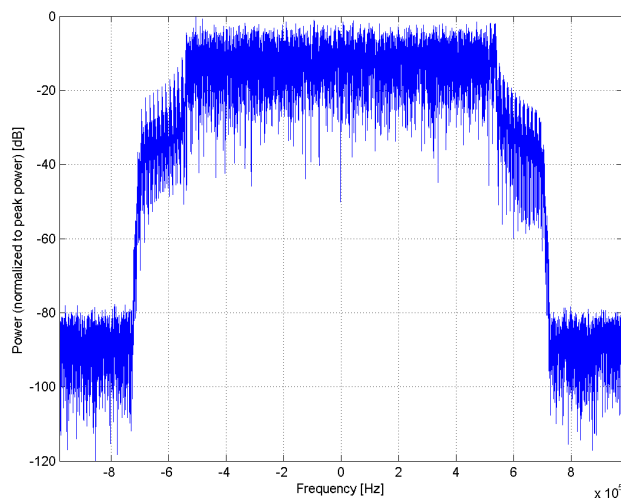
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

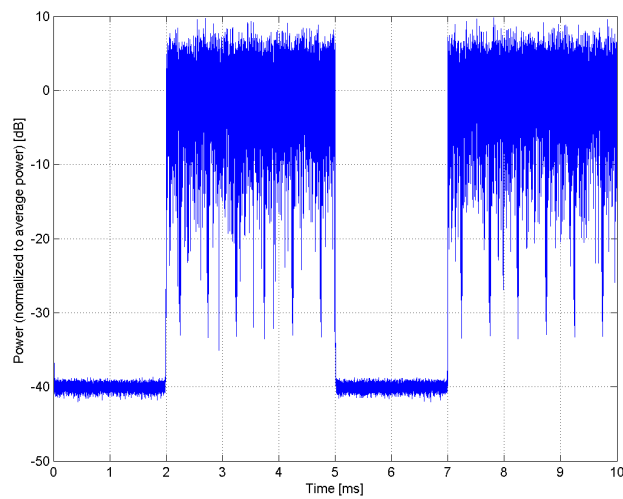
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10499-AAC

PAR: ¹ **8.68 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 64-QAM

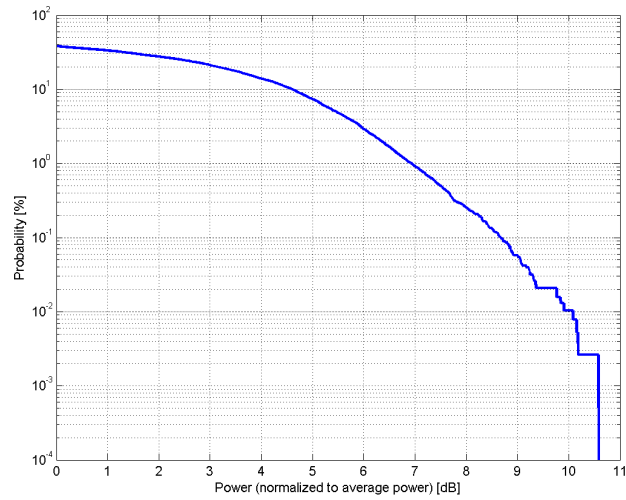
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

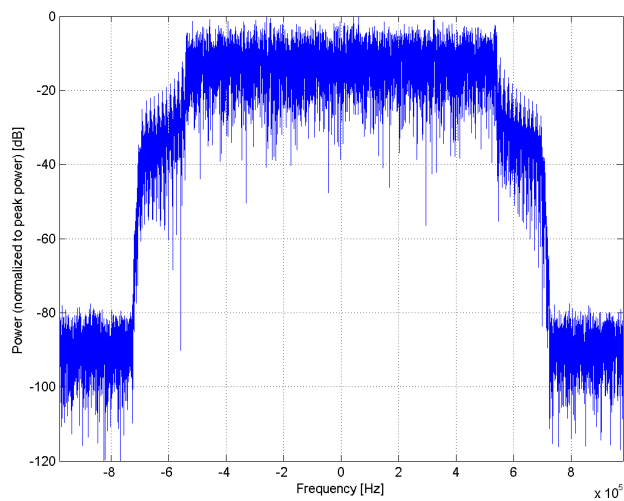
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

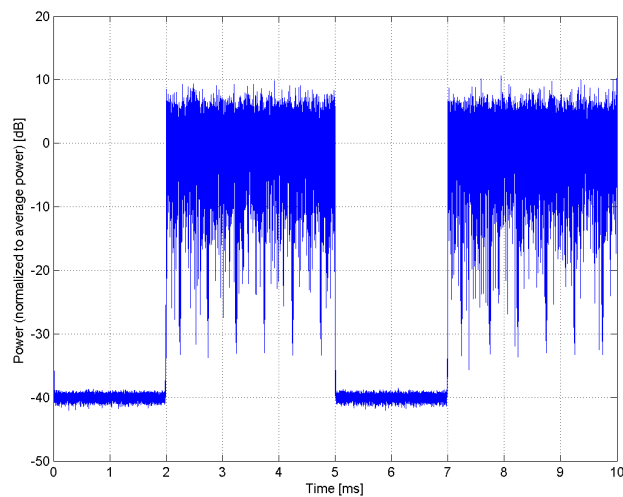
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10500-AAD

PAR: ¹ **7.67 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

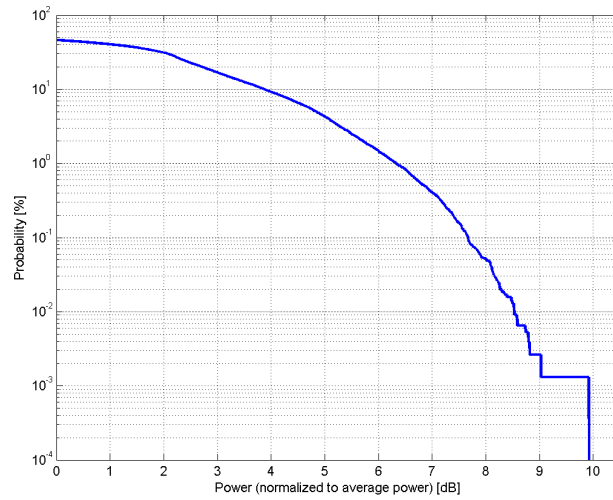
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

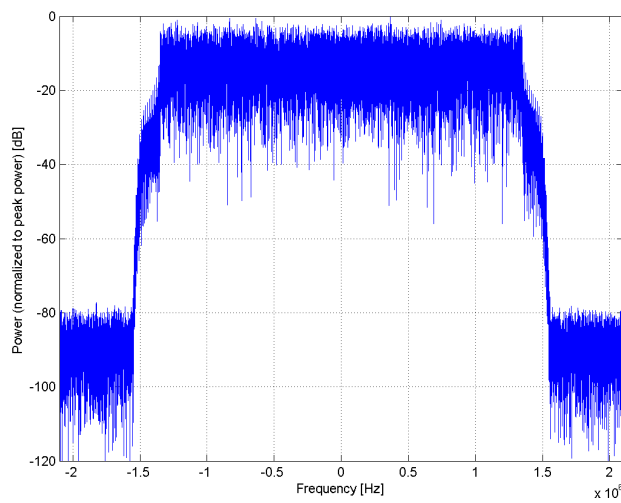
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

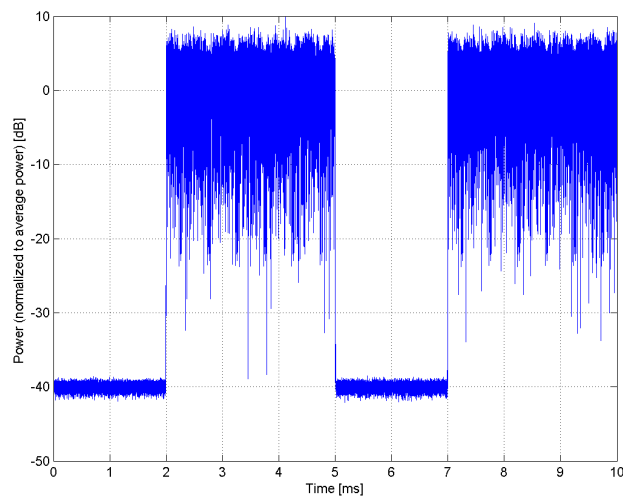
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10501-AAD

PAR: ¹ **8.44 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

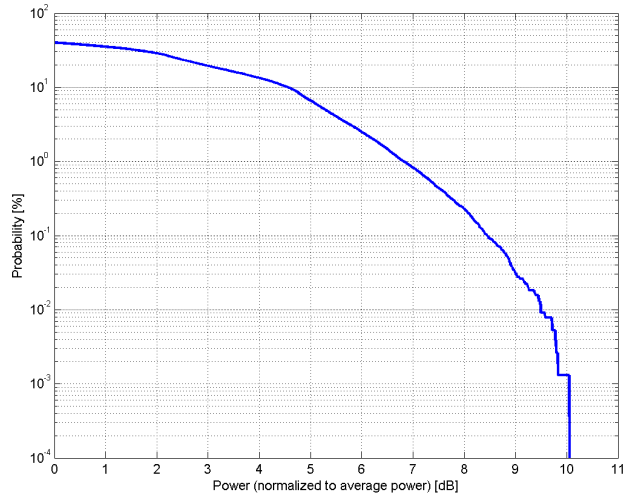
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

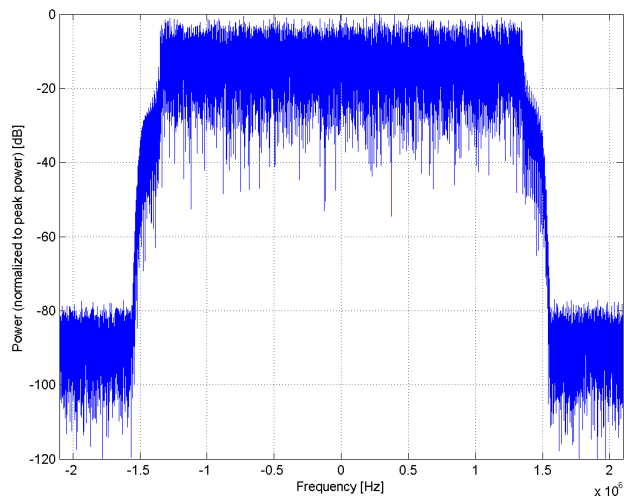
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

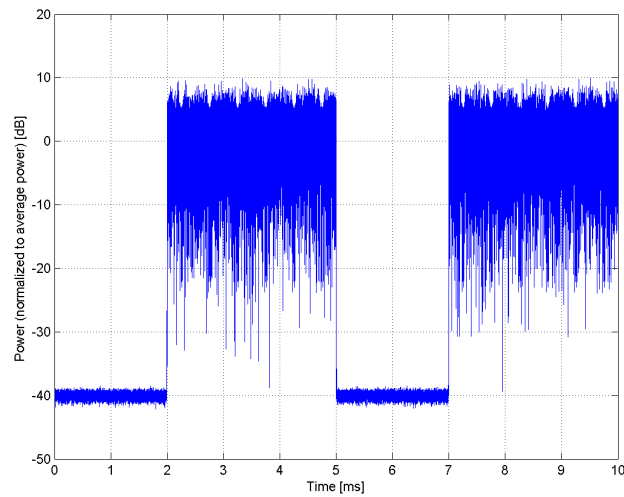
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10502-AAD

PAR: ¹ **8.52 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

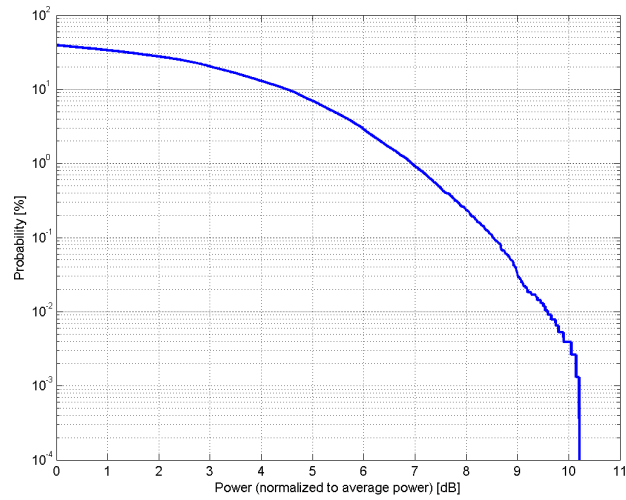
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

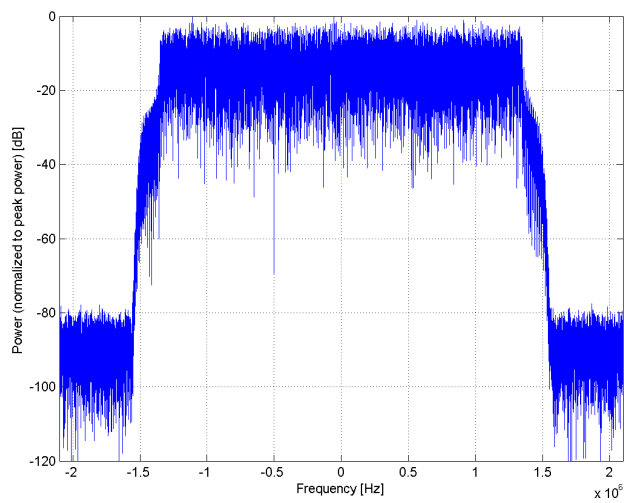
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

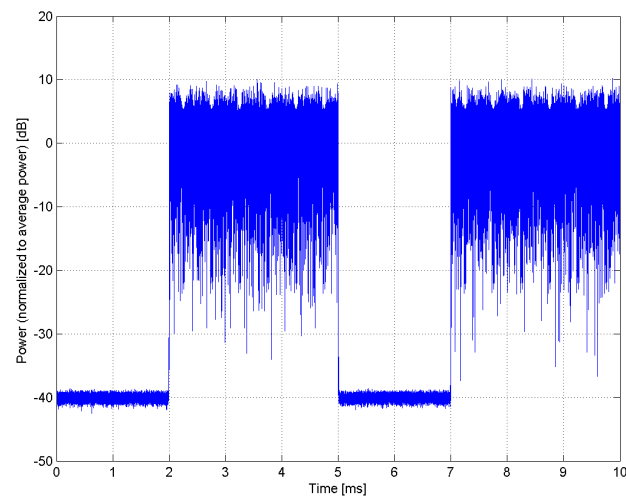
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10503-AAG

PAR: ¹ **7.72 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

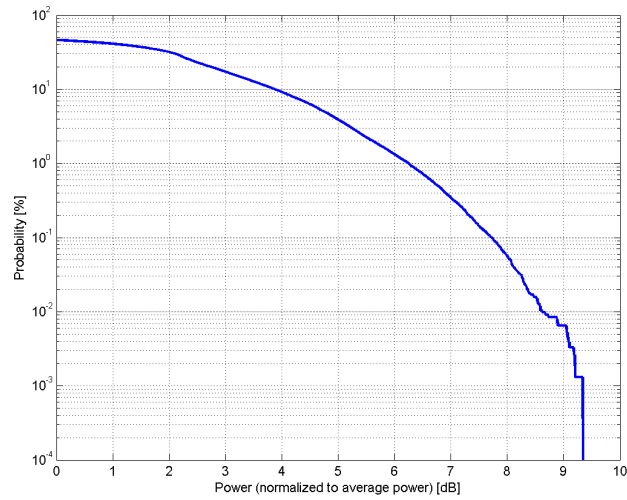
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

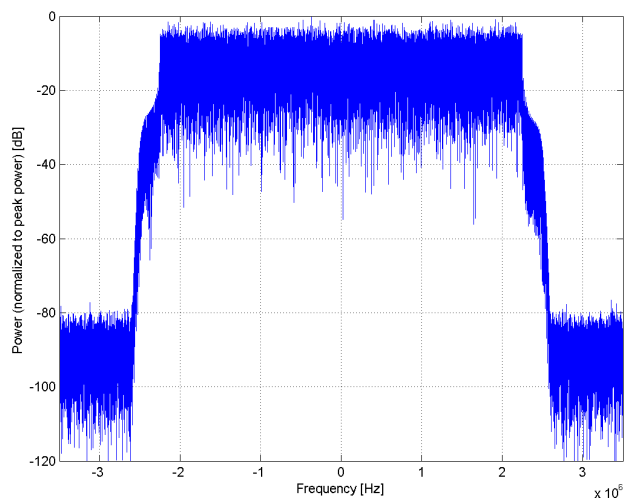
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

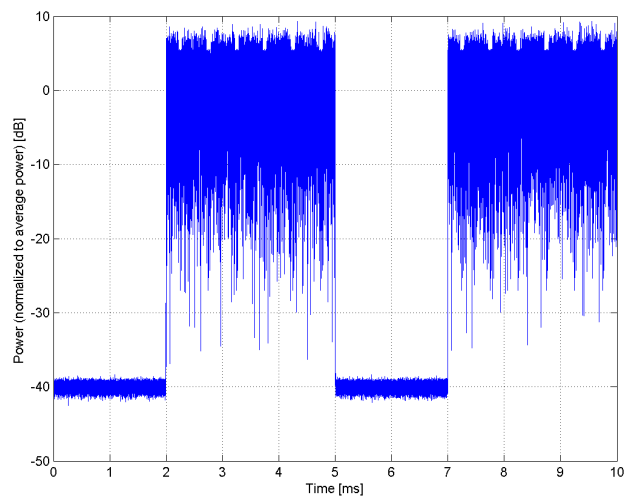
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10504-AAG

PAR: ¹ **8.31 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

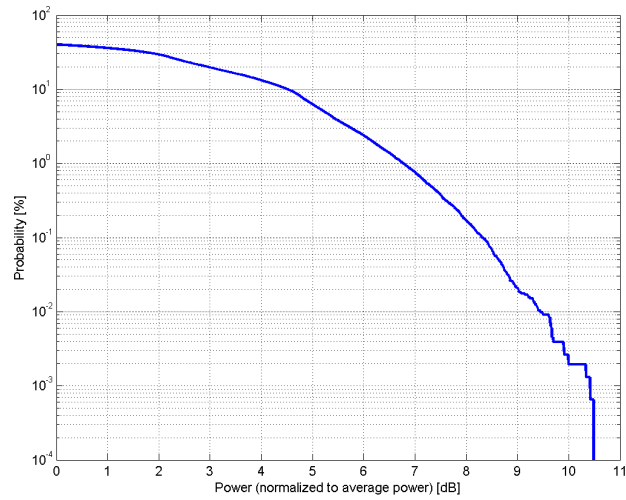
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

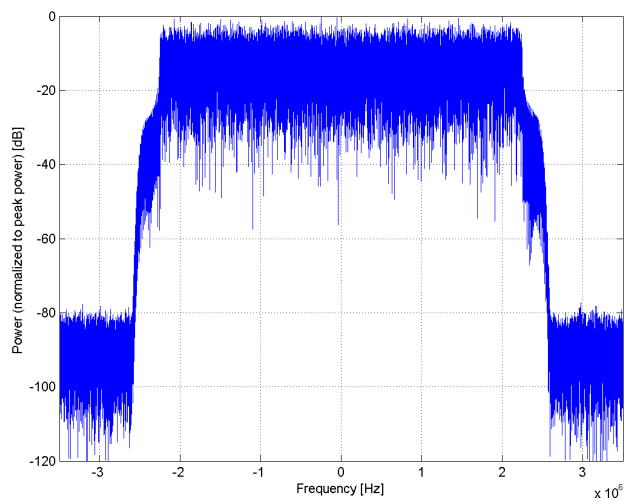
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

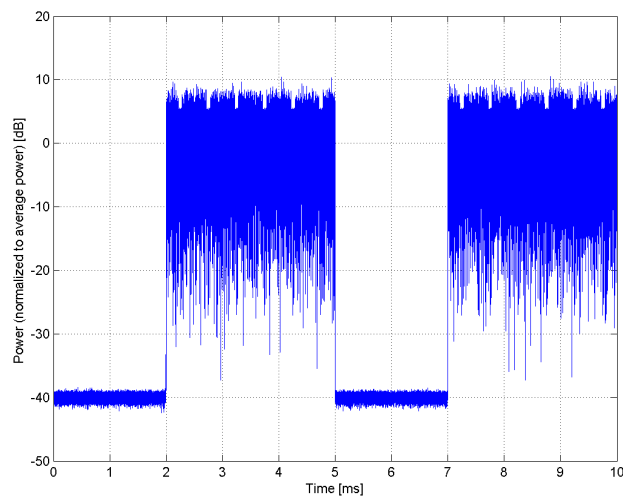
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10505-AAG

PAR: ¹ **8.54 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

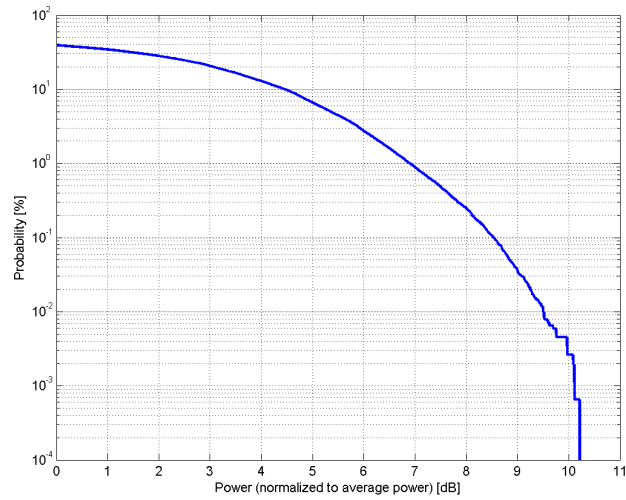
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

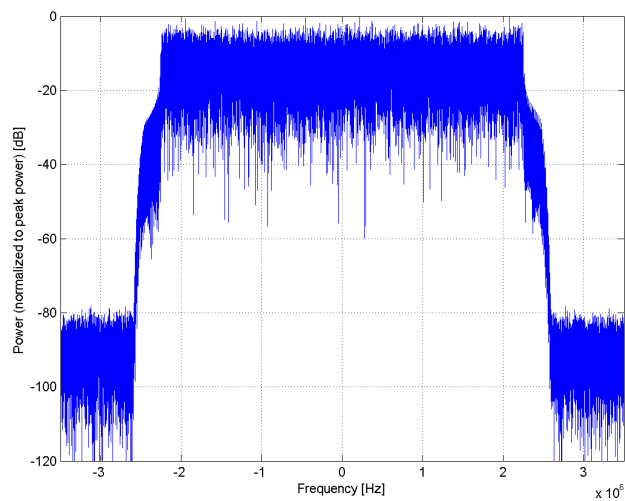
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

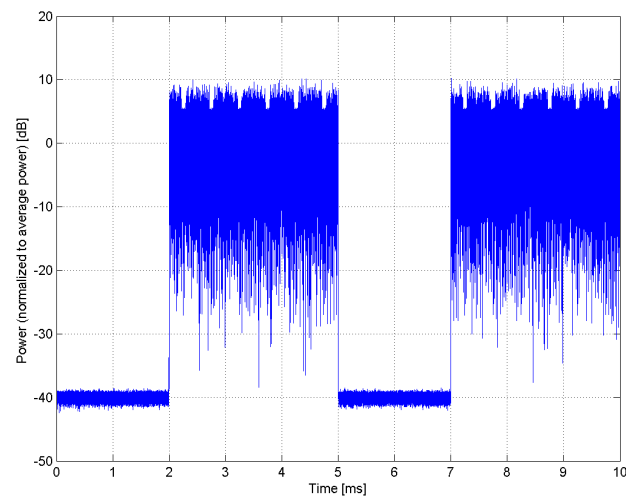
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10506-AAG

PAR: ¹ **7.74 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: QPSK

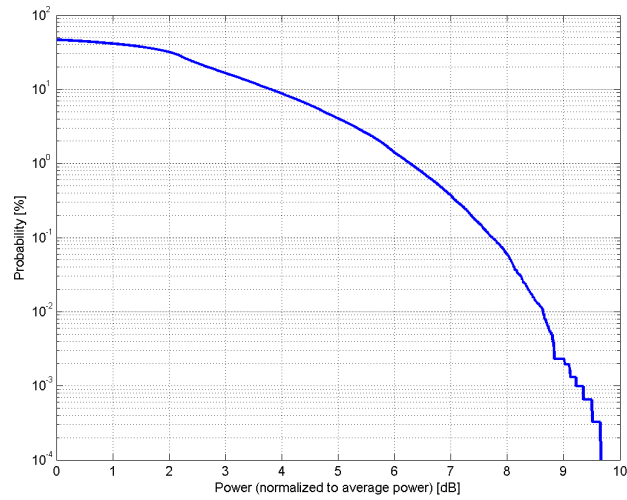
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

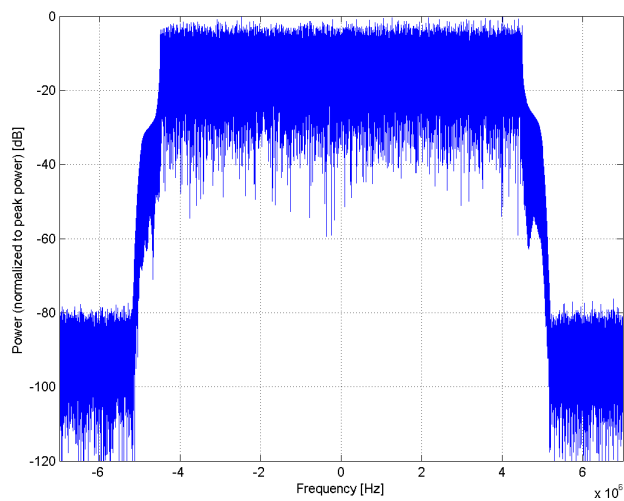
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

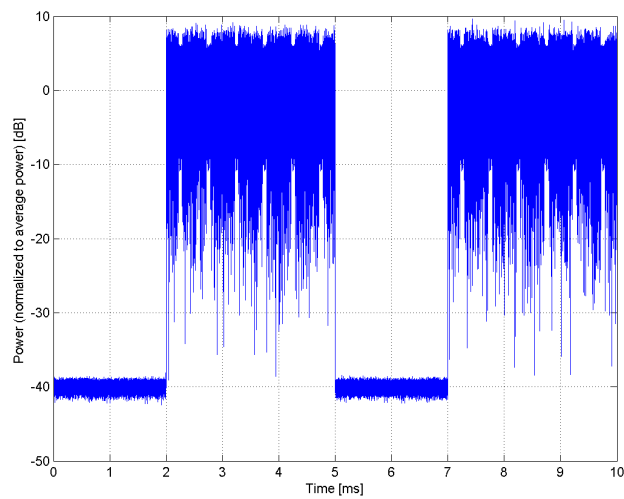
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10507-AAG

PAR: ¹ **8.36 dB**
MIF: ² **-3.41 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 16-QAM

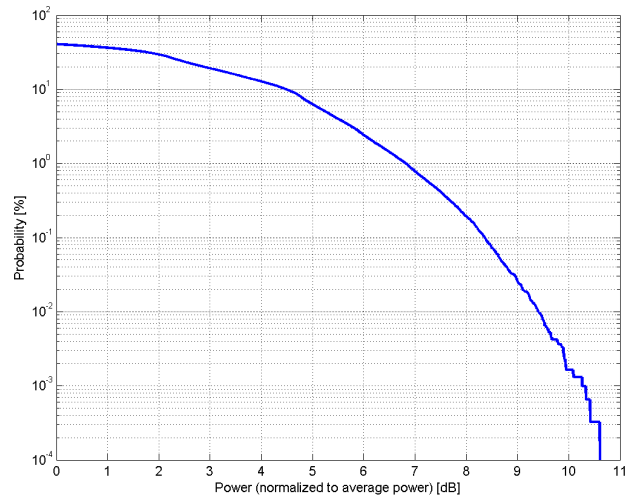
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

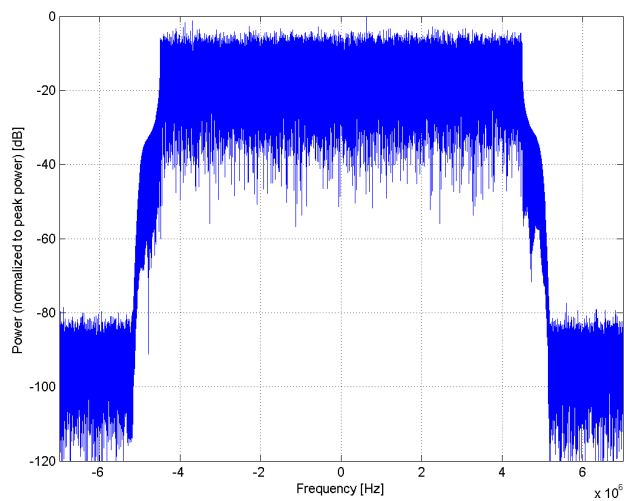
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

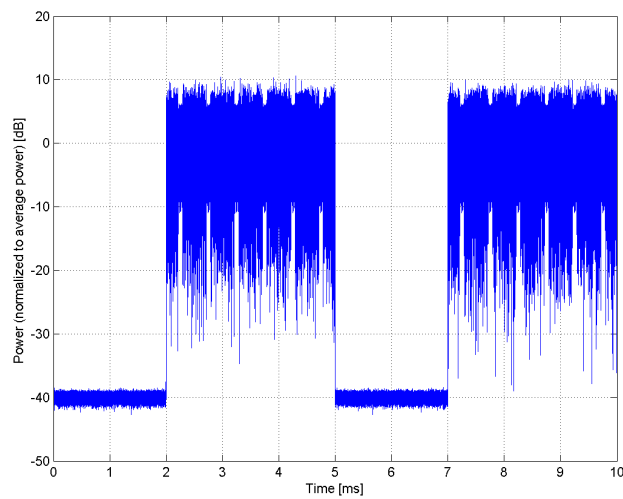
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10508-AAG

PAR: ¹ **8.55 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 64-QAM

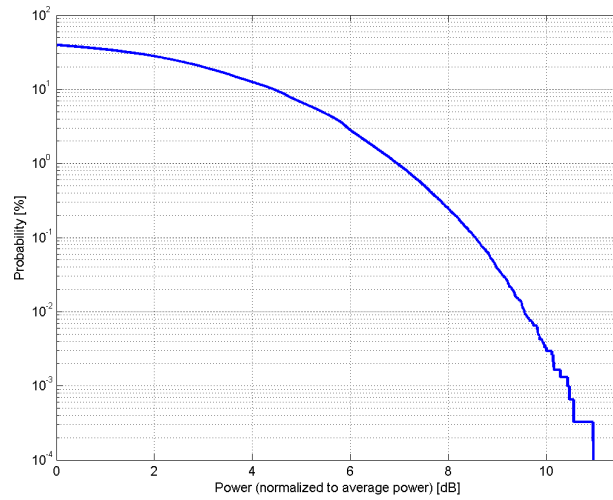
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

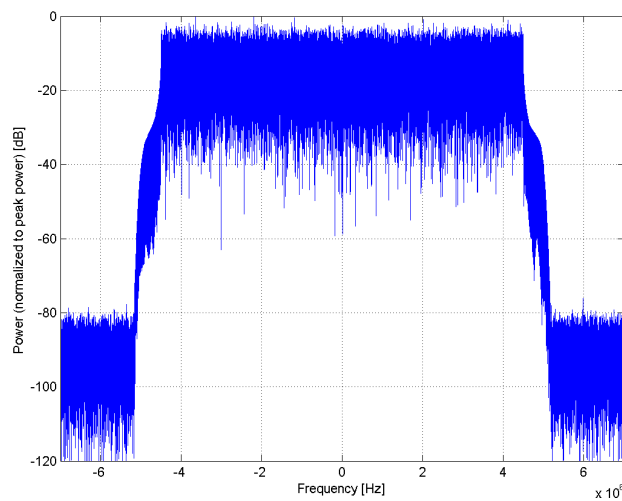
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

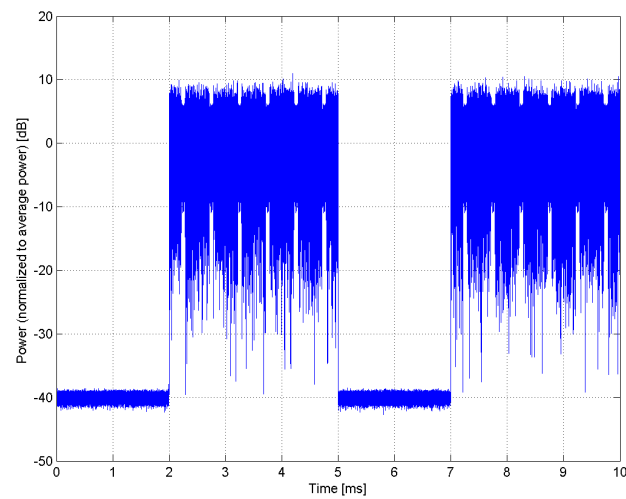
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10509-AAF

PAR: ¹ **7.99 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: QPSK

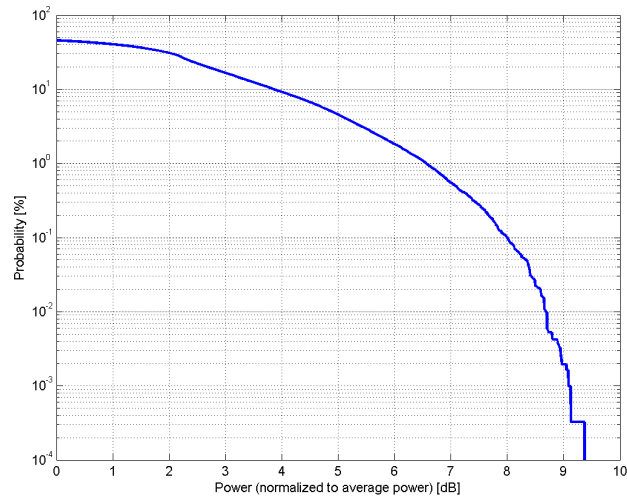
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

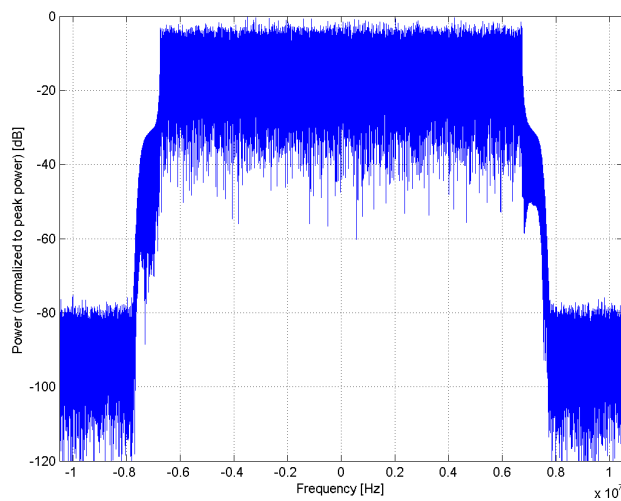
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

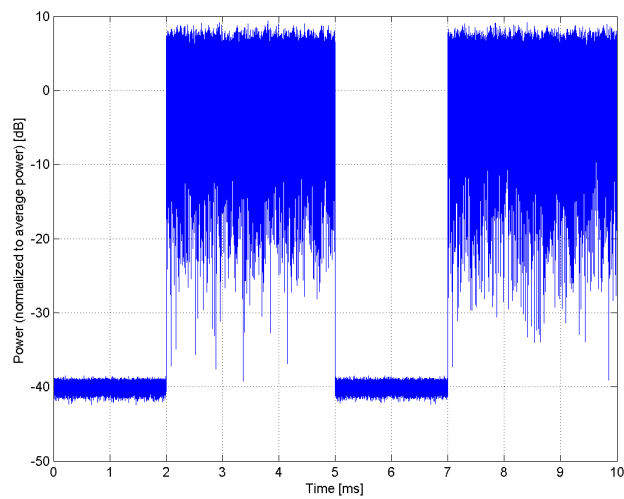
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10510-AAF

PAR: ¹ **8.49 dB**
MIF: ² **-3.43 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation

Modulation: 16-QAM

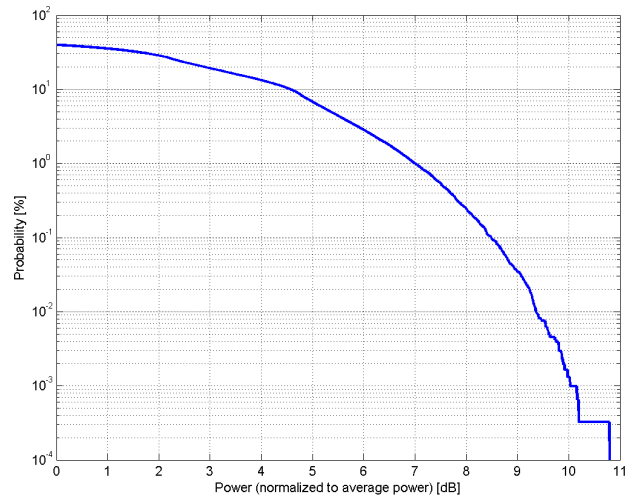
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

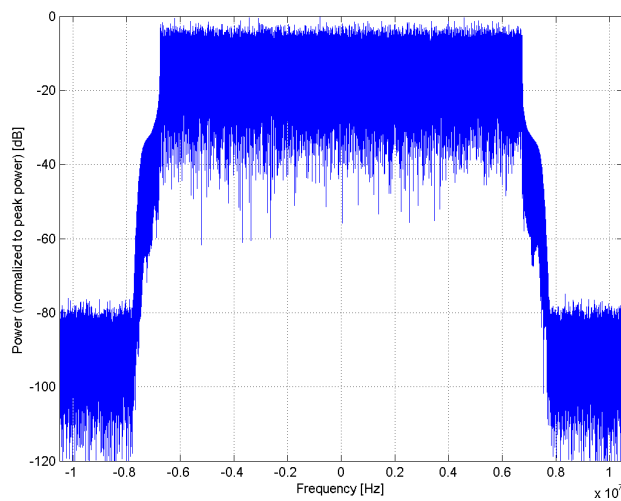
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

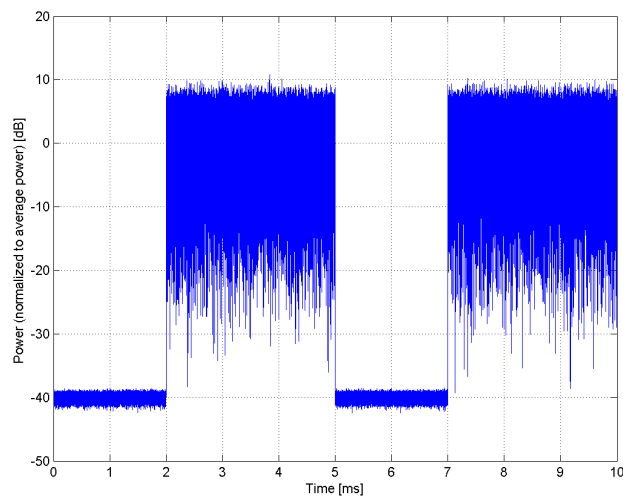
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10511-AAF

PAR: ¹ **8.51 dB**
MIF: ² **-3.45 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

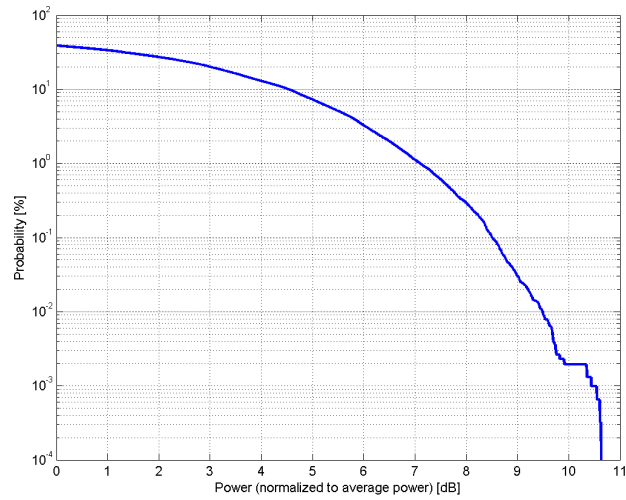
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

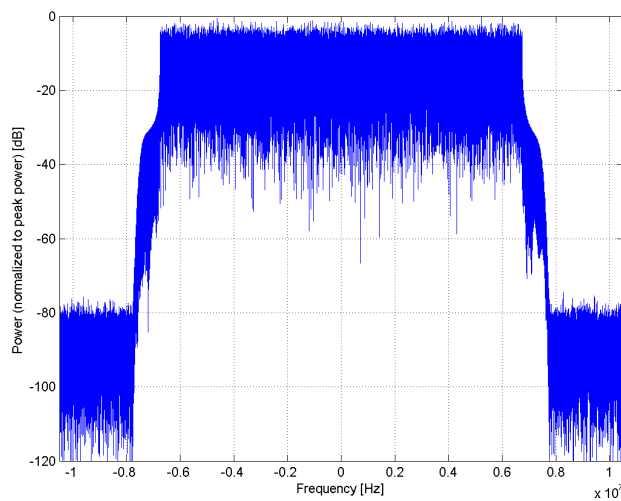
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

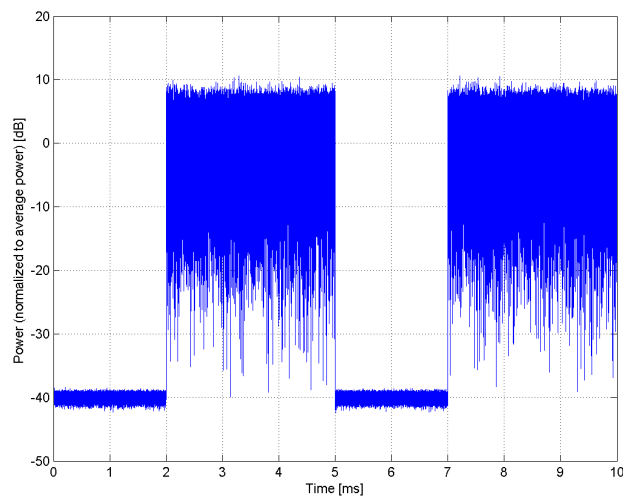
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10512-AAG

PAR: ¹ **7.74 dB**
MIF: ² **-3.40 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: QPSK

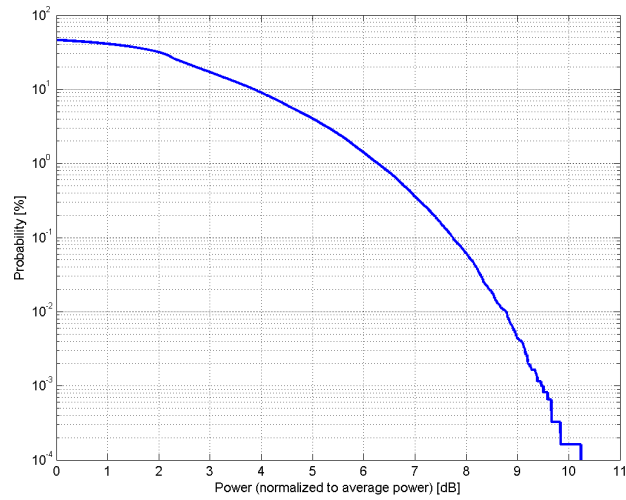
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

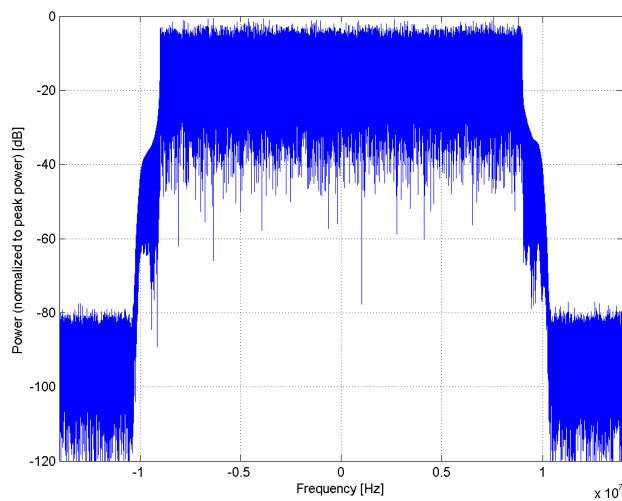
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

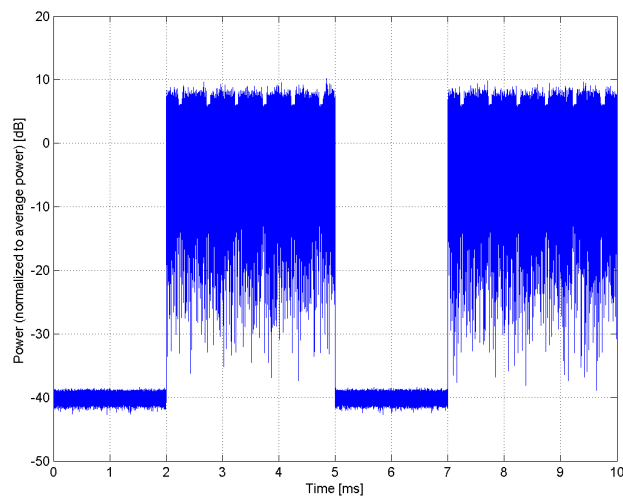
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10513-AAG

PAR: ¹ **8.42 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 16-QAM

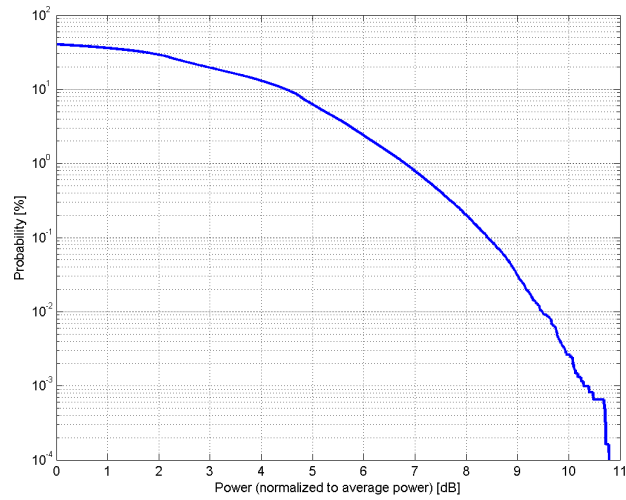
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

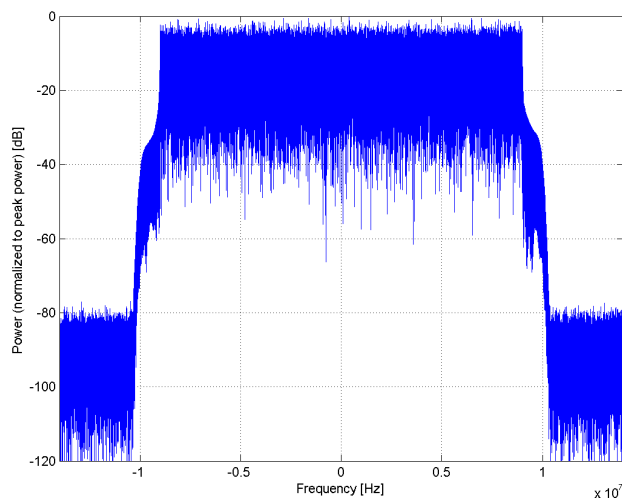
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

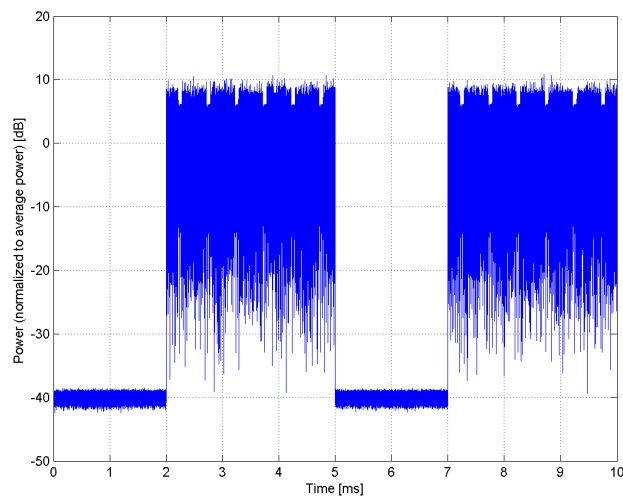
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10514-AAG

PAR: ¹ **8.45 dB**
MIF: ² **-3.42 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 64-QAM

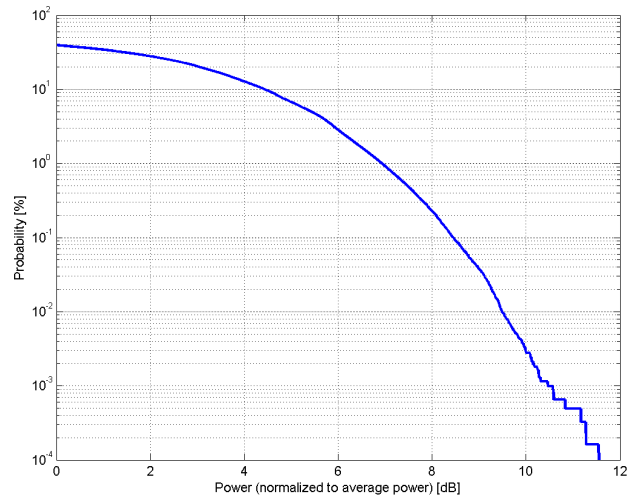
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

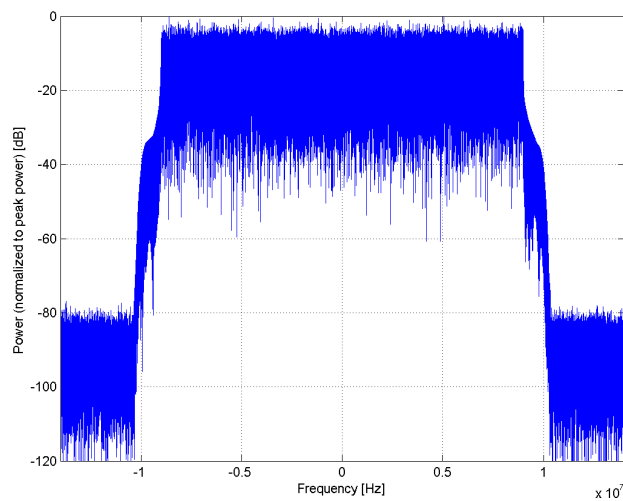
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

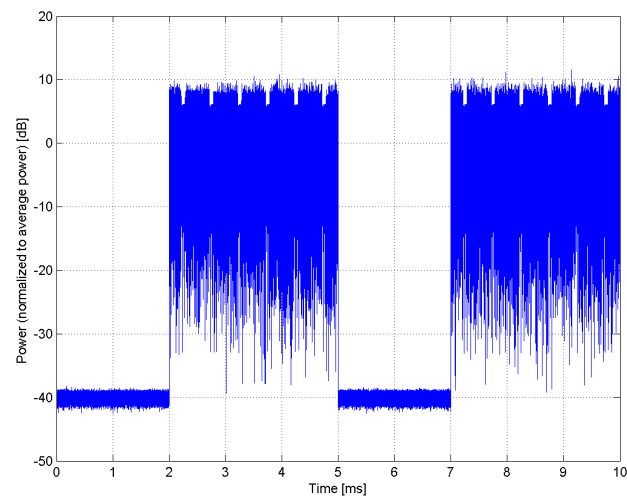
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)**

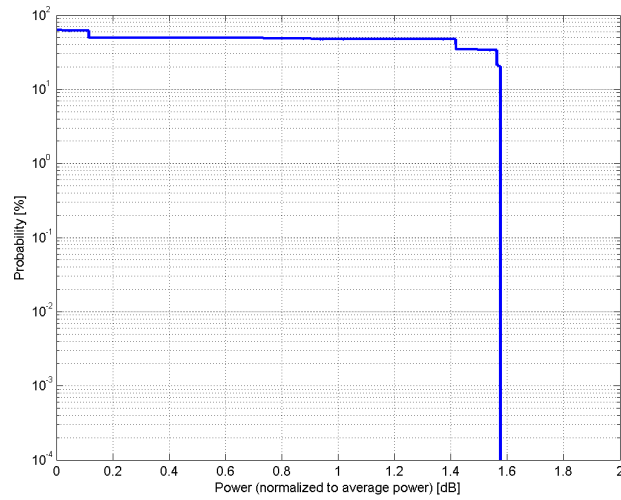
Group: WLAN
UID: 10515-AAA

PAR: ¹ **1.58 dB**
MIF: ² **-12.56 dB**

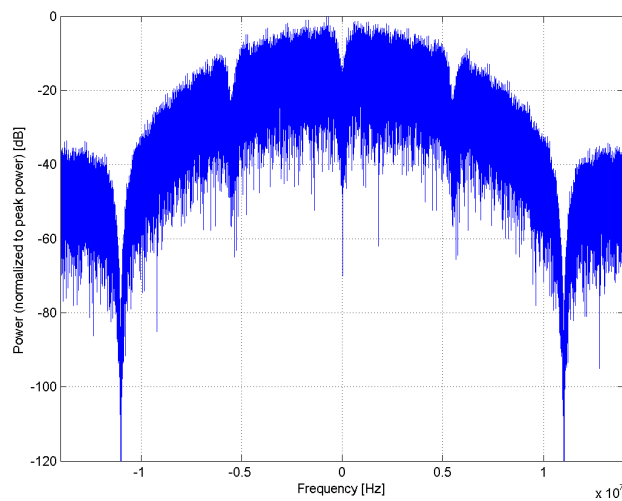
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 2Mbps
Burst on time: 4288us
Bandwidth: 20.0 MHz
Integration Time: 4.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

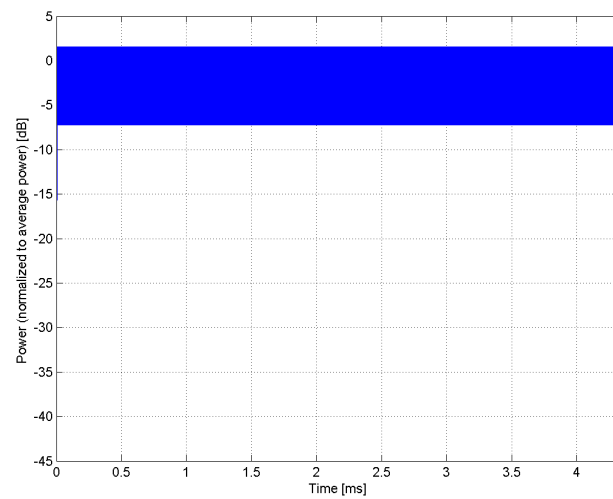
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



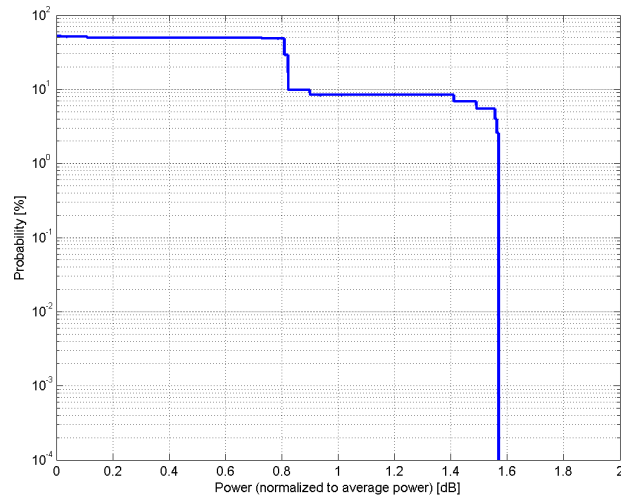
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

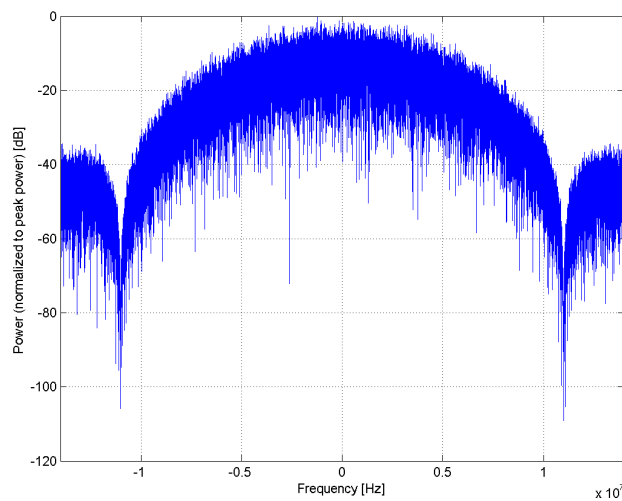
| | |
|-------------------------|---|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10516-AAA |
| PAR: ¹ | 1.57 dB |
| MIF: ² | -12.52 dB |
| Standard Reference: | IEEE 802.11-2012 |
| Category: | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Duty cycle: 99 % PSDU length: 1024 bytes Preamble type: long Data Rate: 5.5Mbps Burst on time: 1681us |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

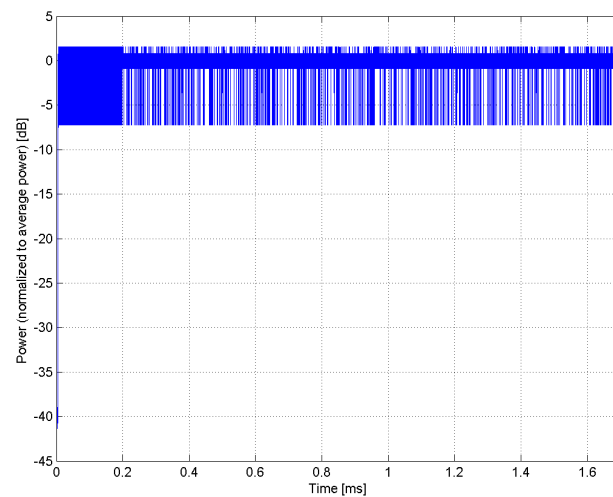
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)**

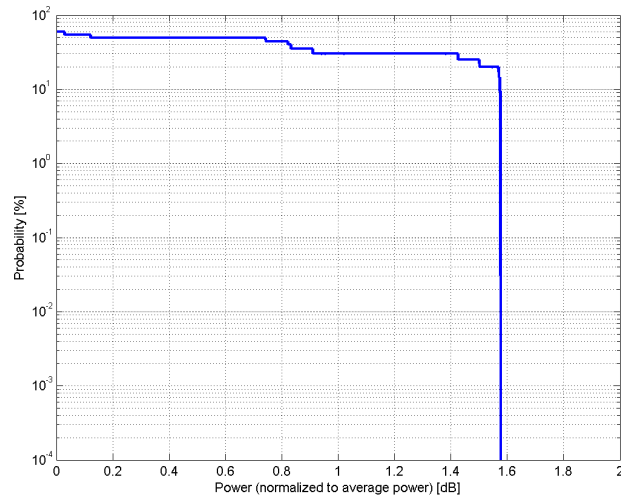
Group: WLAN
UID: 10517-AAA

PAR: ¹ **1.58 dB**
MIF: ² **-13.24 dB**

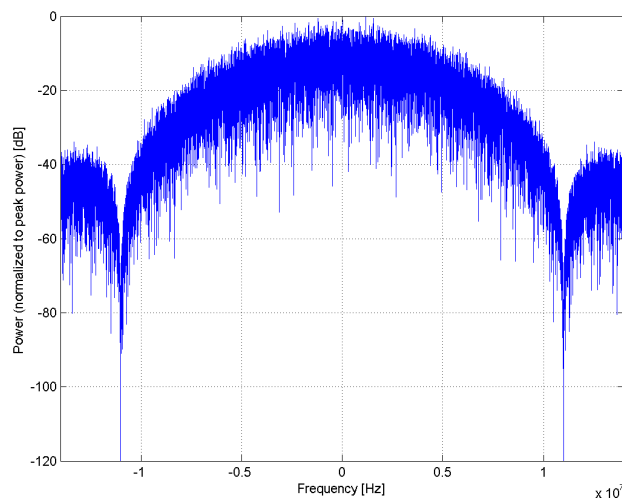
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 11Mbps
Burst on time: 936us
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

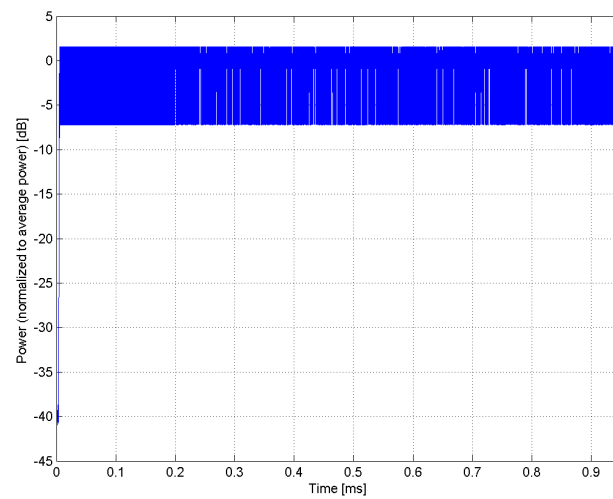
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10518-AAD

PAR: ¹ **8.23 dB**
MIF: ² **-15.39 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

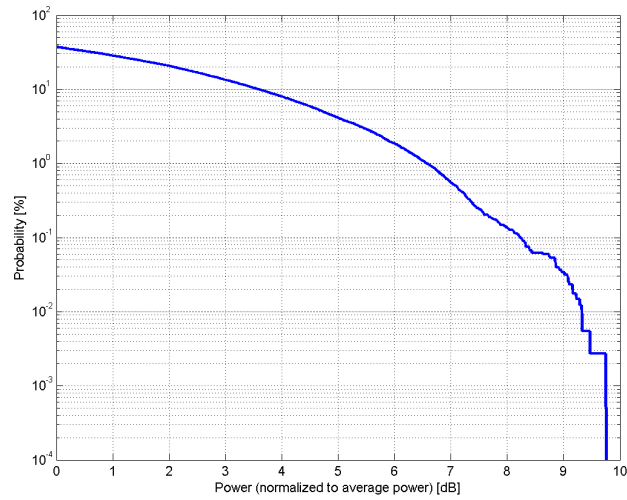
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 9Mbps
Burst on time: 912us

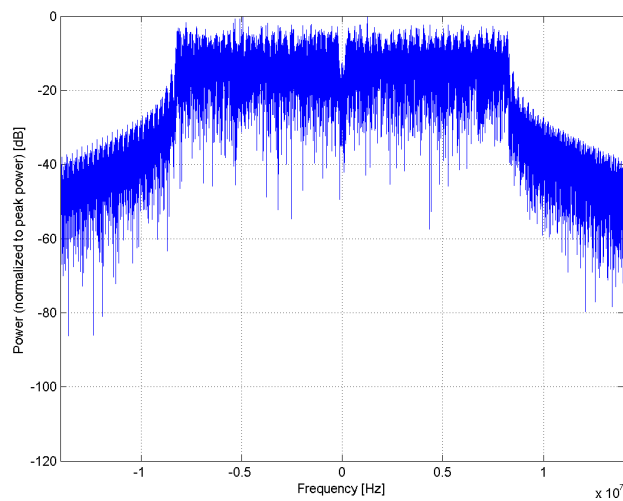
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

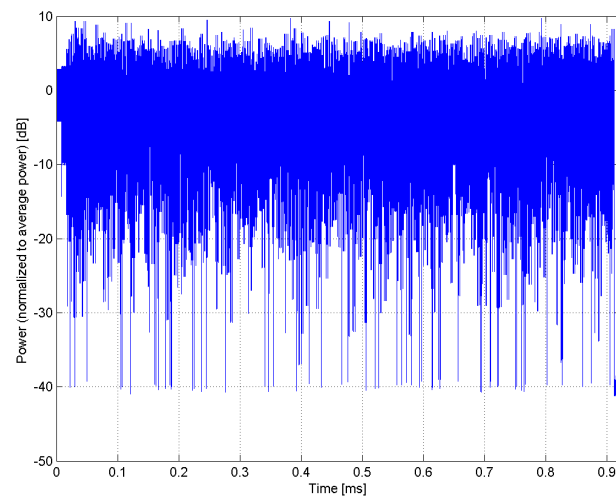
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



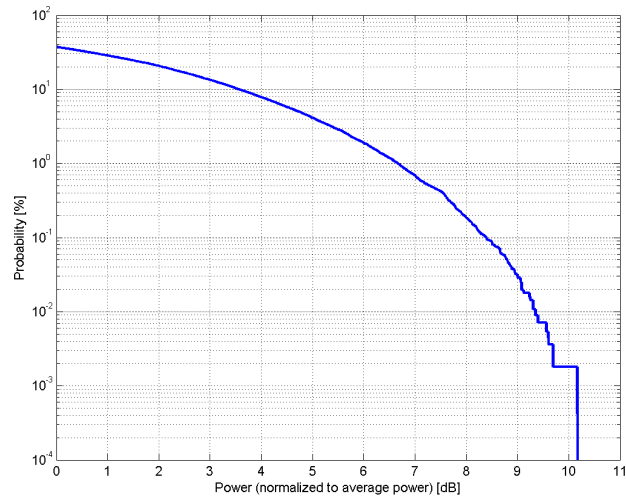
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

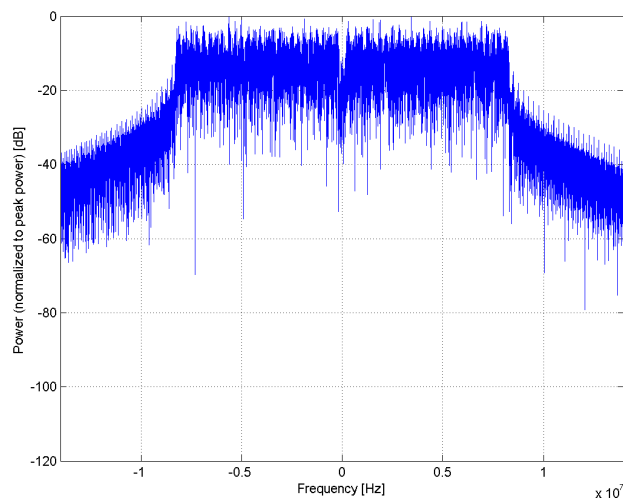
| | |
|-------------------------|---|
| Name: | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10519-AAD |
| PAR: ¹ | 8.39 dB |
| MIF: ² | -16.70 dB |
| Standard Reference: | IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 12Mbps Burst on time: 692us |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 0.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

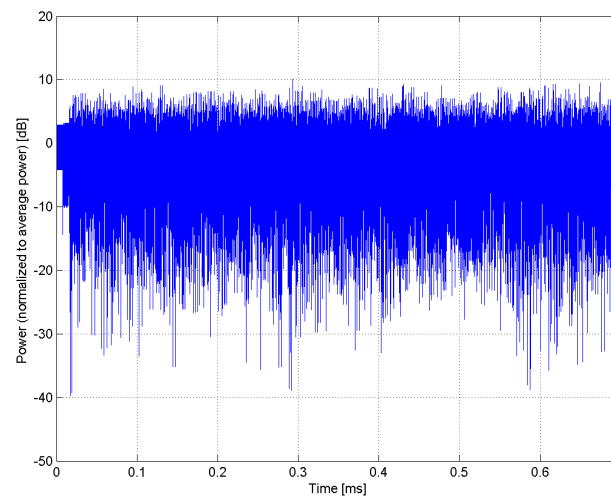
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10520-AAD

PAR: ¹ **8.12 dB**
MIF: ² **-18.76 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

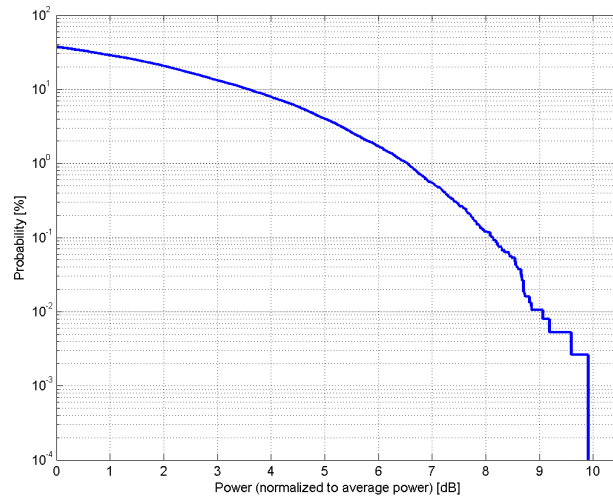
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 18Mbps
Burst on time: 468us

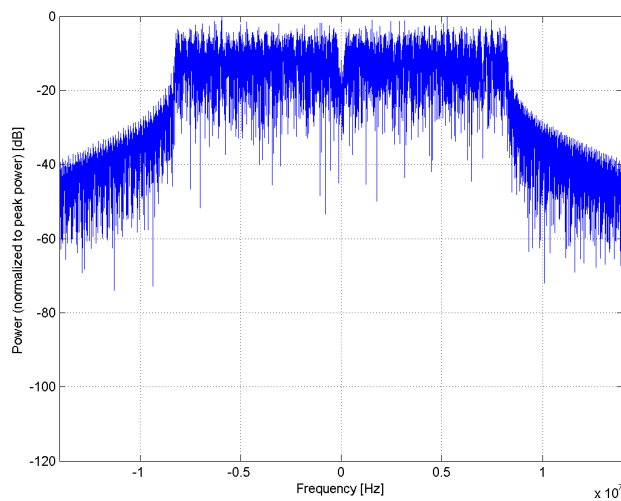
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

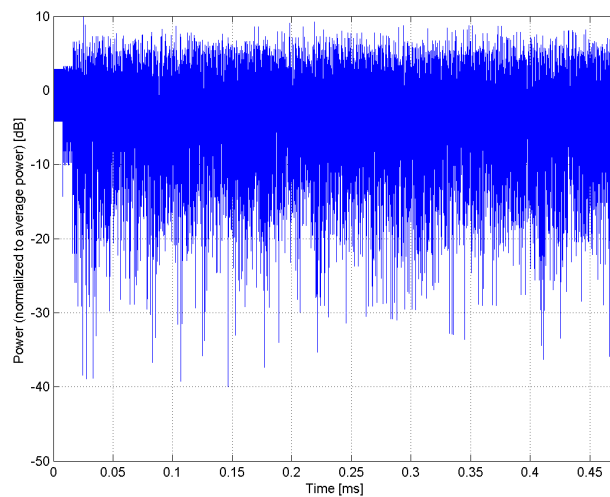
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10521-AAD

PAR: ¹ **7.97 dB**
MIF: ² **-23.13 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation
Modulation: 16-QAM

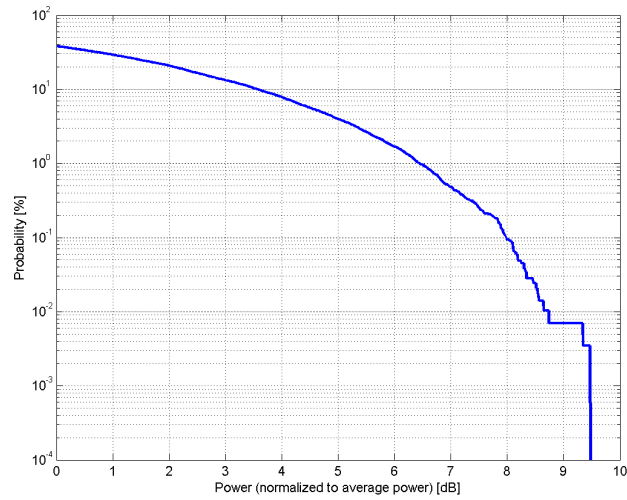
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 24Mbps
Burst on time: 356us

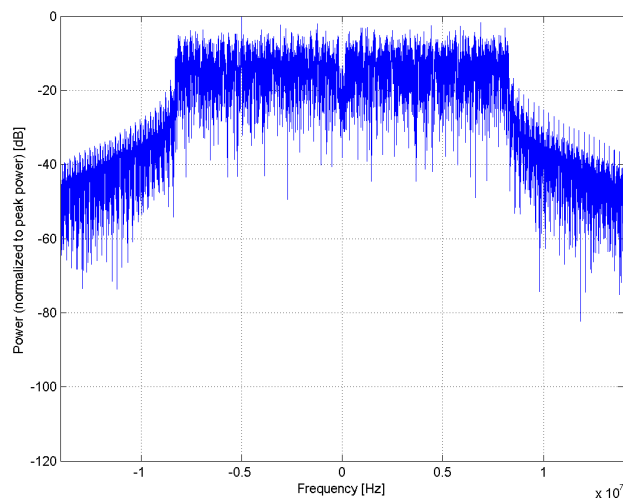
Bandwidth: 20.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

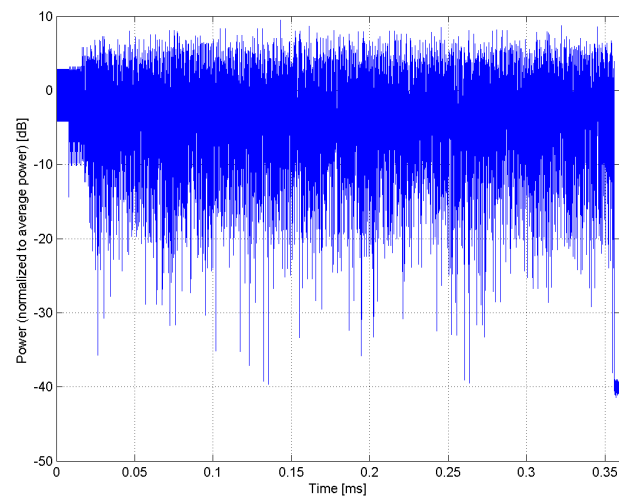
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



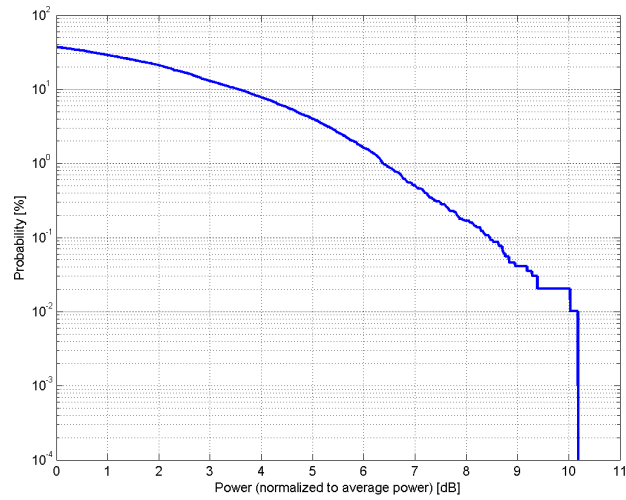
Time Domain

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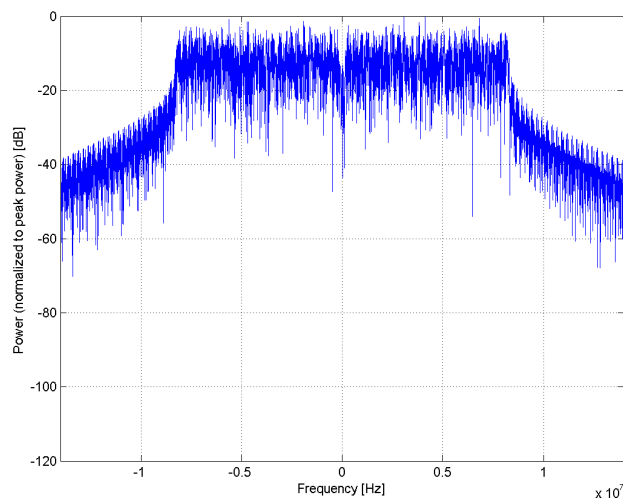
| | |
|-------------------------|---|
| Name: | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10522-AAD |
| PAR: ¹ | 8.45 dB |
| MIF: ² | -22.02 dB |
| Standard Reference: | IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 36Mbps Burst on time: 244us |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 0.2 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

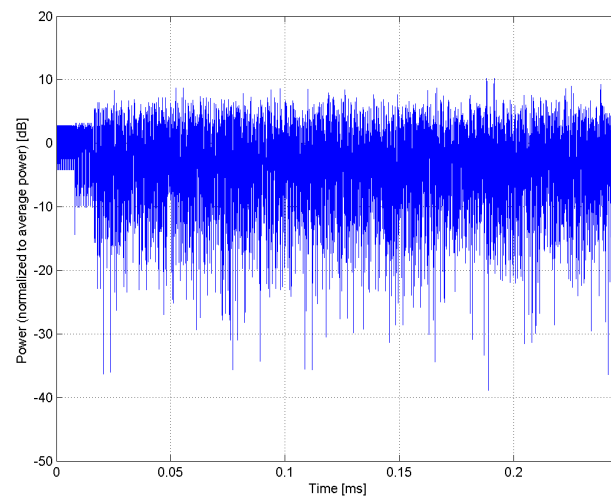
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10523-AAD

PAR: ¹ **8.08 dB**
MIF: ² **-24.22 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

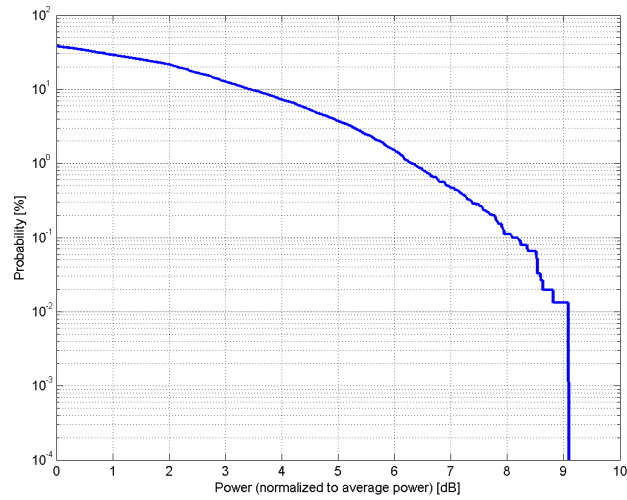
Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 48Mbps
Burst on time: 188us

Bandwidth: 20.0 MHz

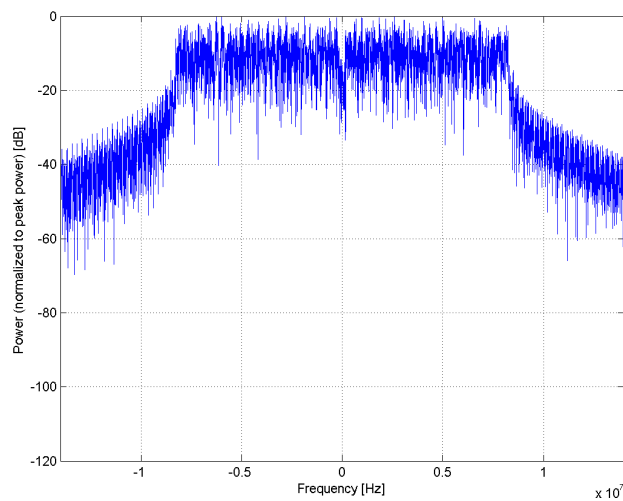
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

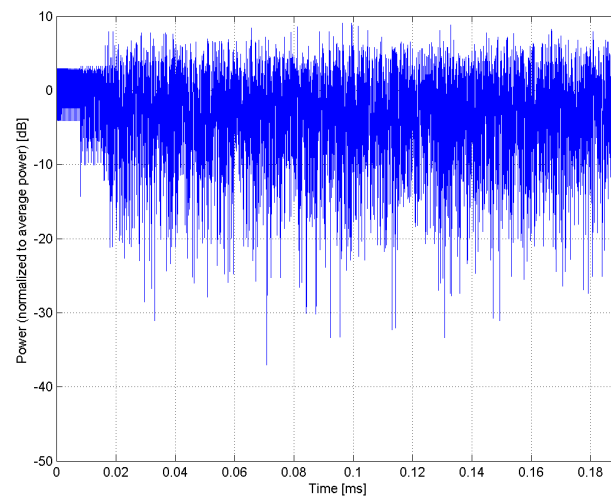
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10524-AAD

PAR: ¹ **8.27 dB**
MIF: ² **-29.35 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation
Modulation: 64-QAM

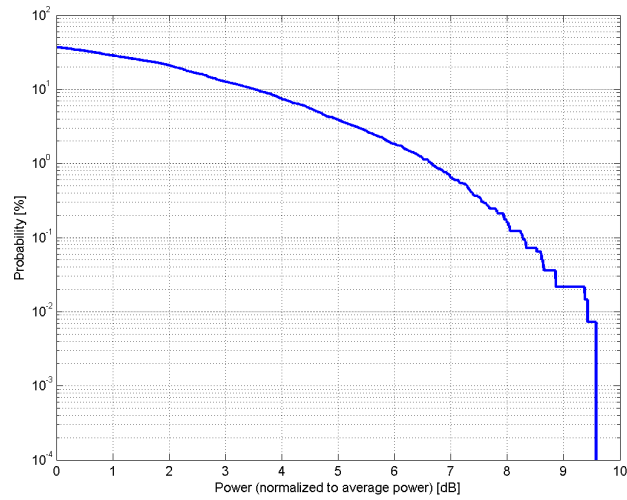
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 99%
PSDU length: 1000 bytes
Data Rate: 54Mbps
Burst on time: 172us

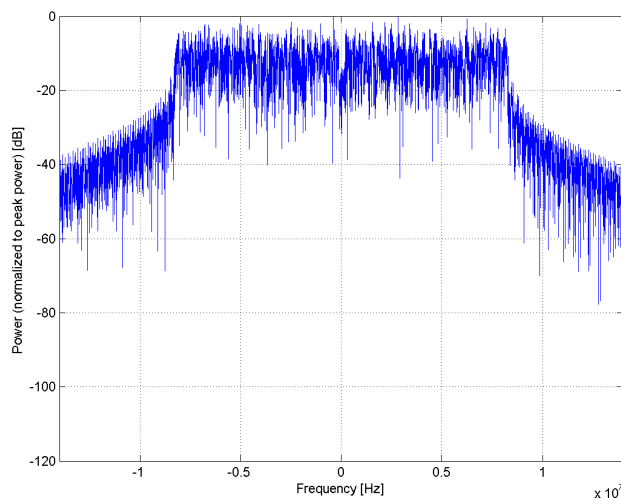
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

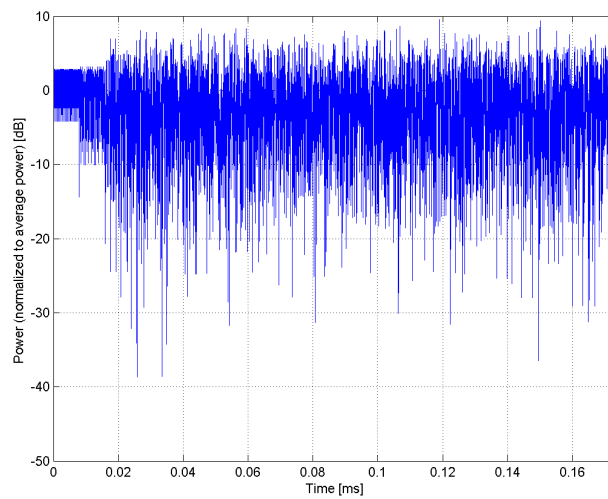
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10525-AAD

PAR: ¹ **8.36 dB**
MIF: ² **-12.23 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

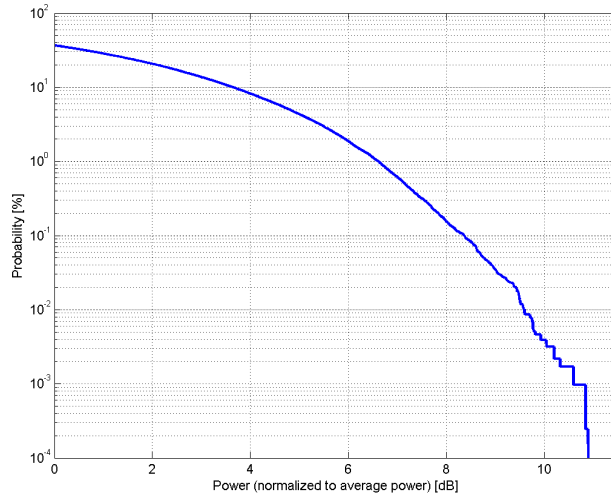
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 4096

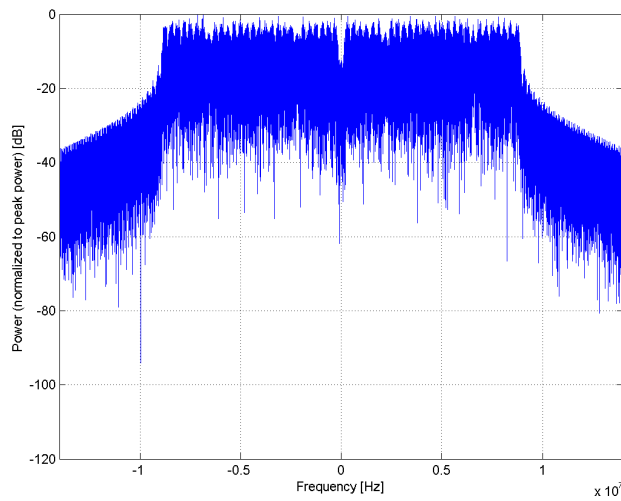
Bandwidth: 20.0 MHz
Integration Time: 5.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

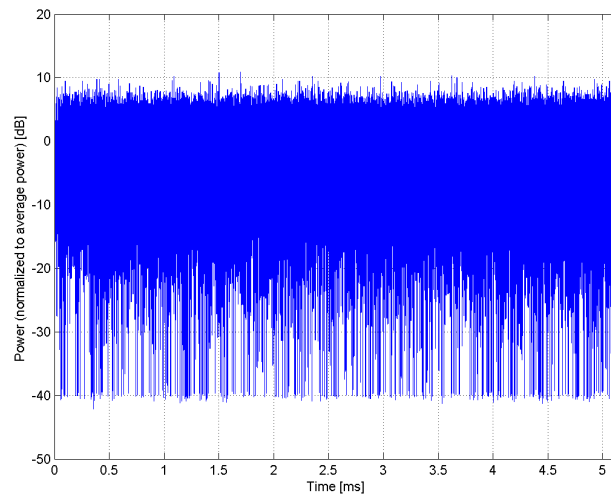
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10526-AAD

PAR: ¹ **8.42 dB**
MIF: ² **-13.77 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

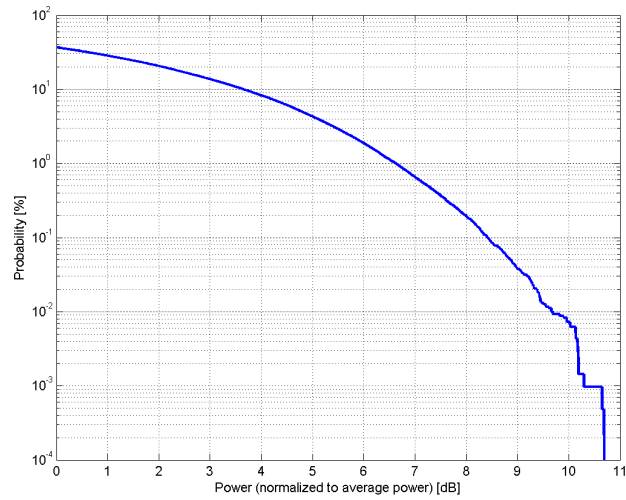
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 4096

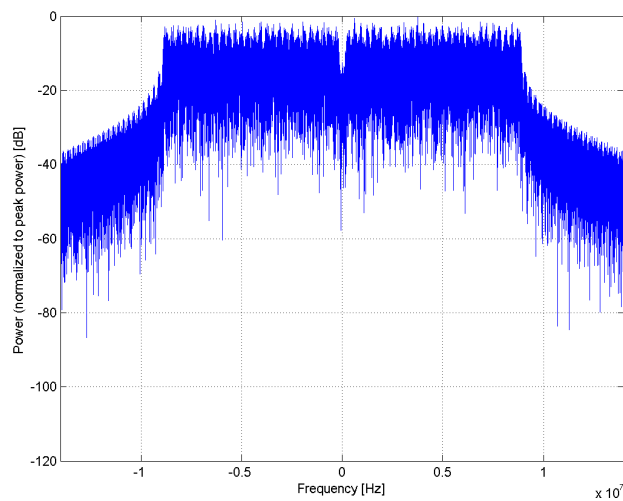
Bandwidth: 20.0 MHz
Integration Time: 2.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

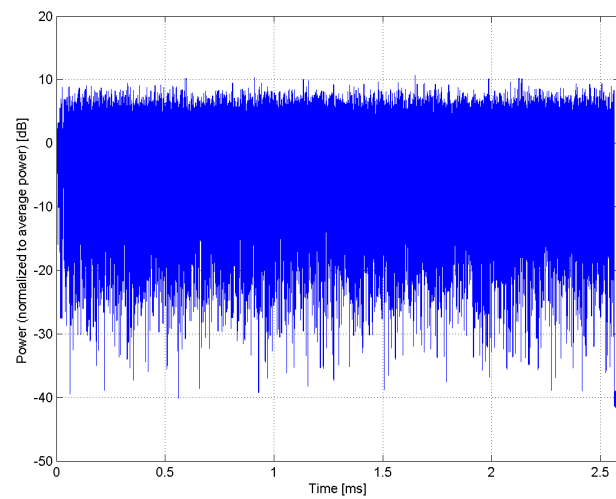
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10527-AAD

PAR: ¹ **8.21 dB**
MIF: ² **-14.89 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

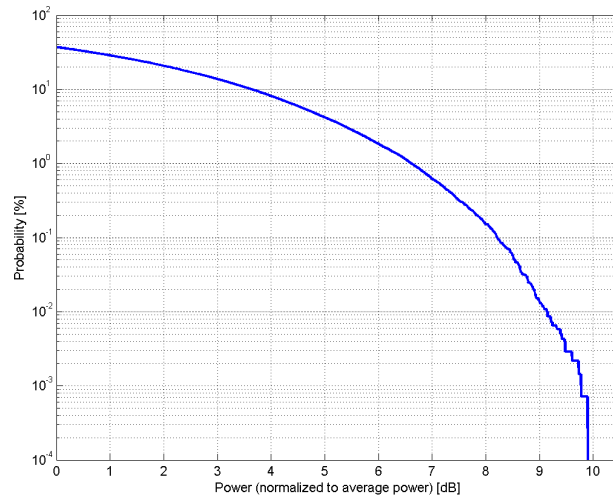
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 2
Number of spatial streams: 1
MPDU length: 4096

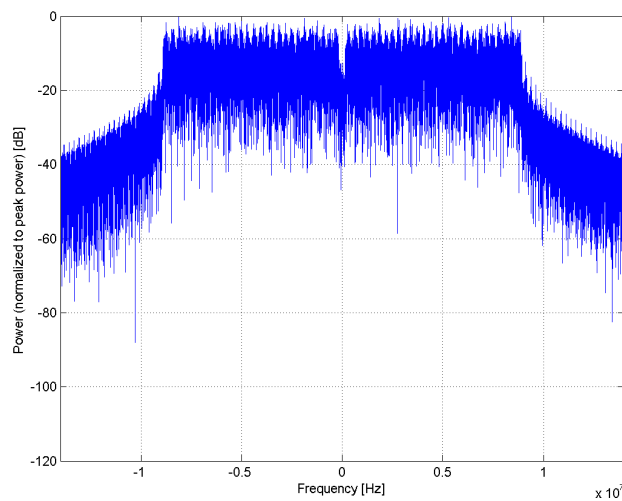
Bandwidth: 20.0 MHz
Integration Time: 1.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

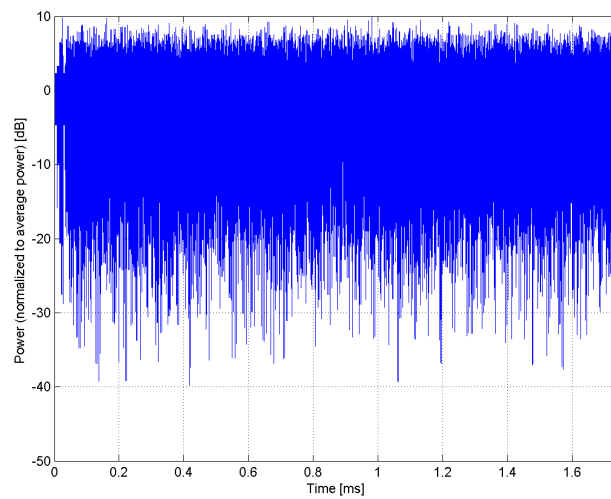
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10528-AAD

PAR: ¹ **8.36 dB**
MIF: ² **-15.25 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

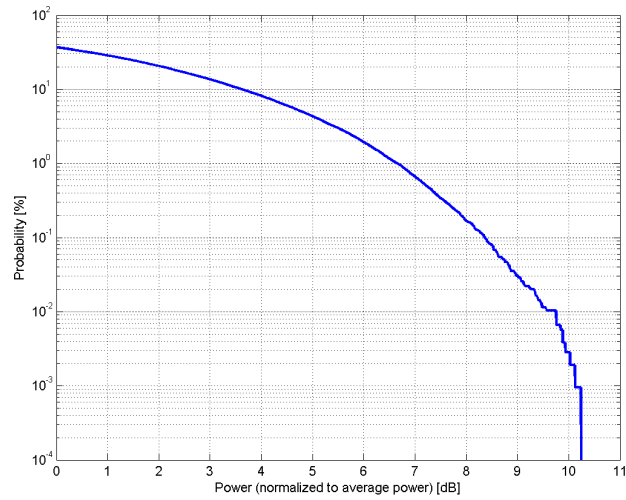
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 4096

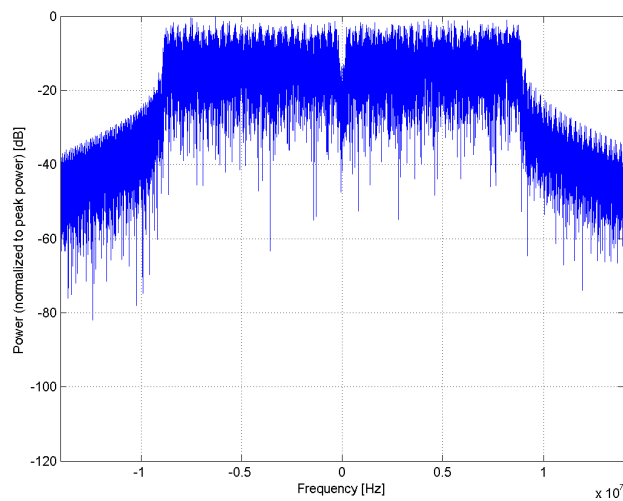
Bandwidth: 20.0 MHz
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

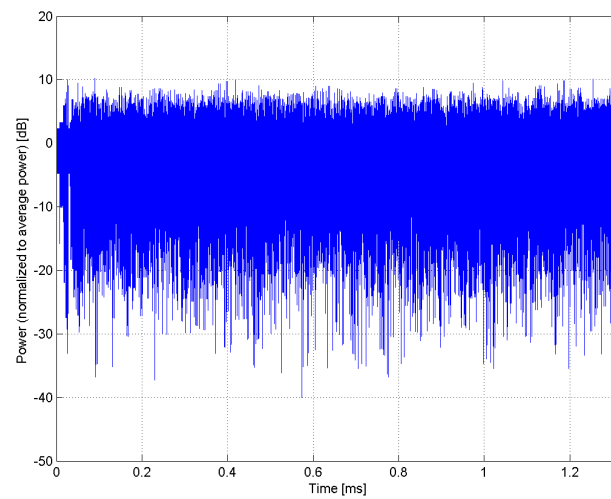
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10529-AAD

PAR: ¹ **8.36 dB**
MIF: ² **-15.25 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

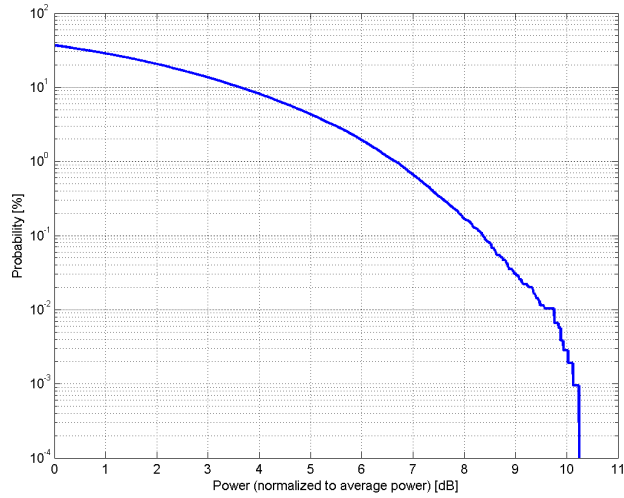
Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 4
Number of spatial streams: 1
MPDU length: 4096

Bandwidth: 20.0 MHz

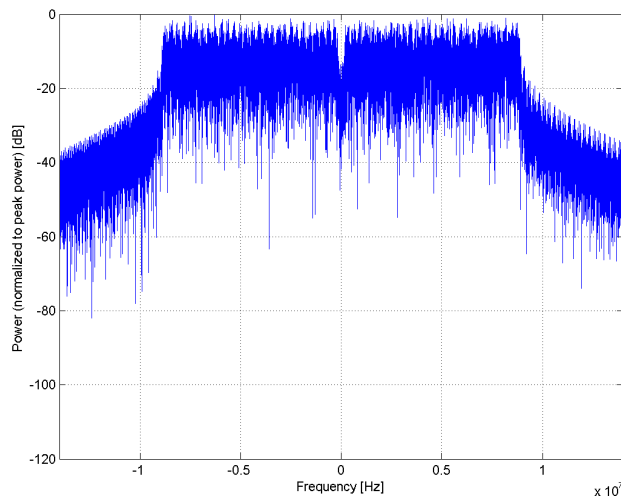
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

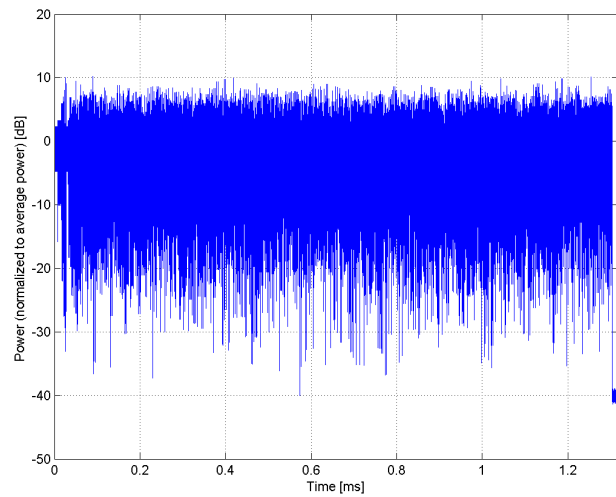
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10531-AAD

PAR: ¹ **8.43 dB**
MIF: ² **-18.44 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

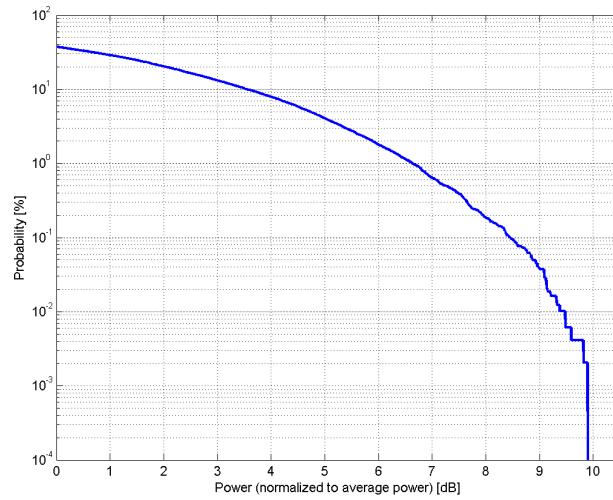
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 6
Number of spatial streams: 1
MPDU length: 4096

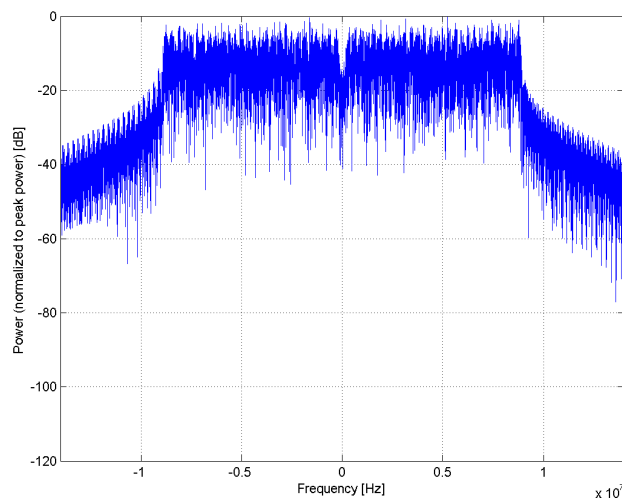
Bandwidth: 20.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

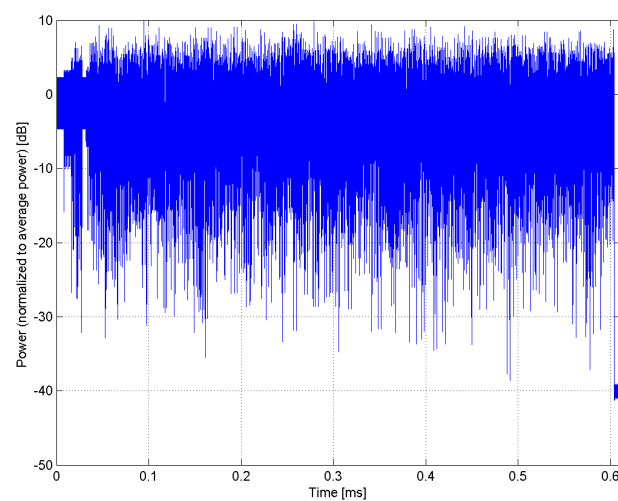
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10532-AAD

PAR: ¹ **8.29 dB**
MIF: ² **-18.59 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

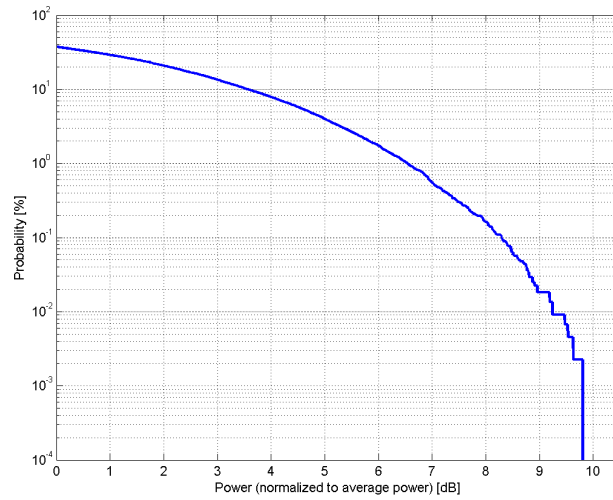
Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 7
Number of spatial streams: 1
MPDU length: 4096

Bandwidth: 20.0 MHz

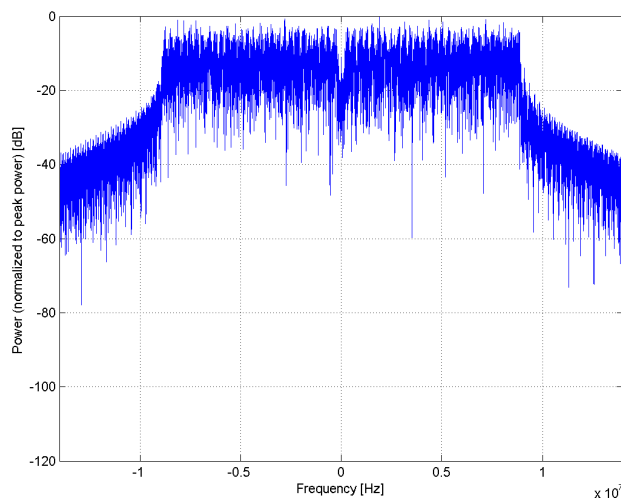
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

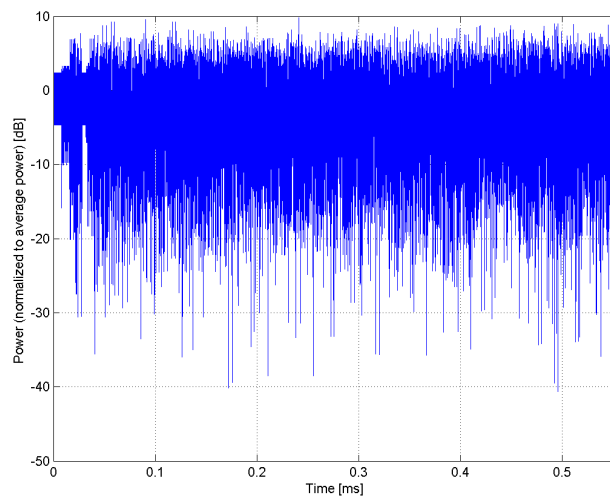
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10533-AAD

PAR: ¹ **8.38 dB**
MIF: ² **-20.10 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

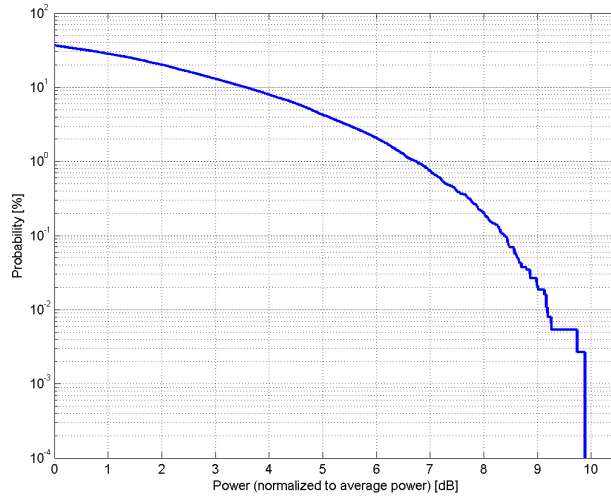
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 99%
MCS: 8
Number of spatial streams: 1
MPDU length: 4096

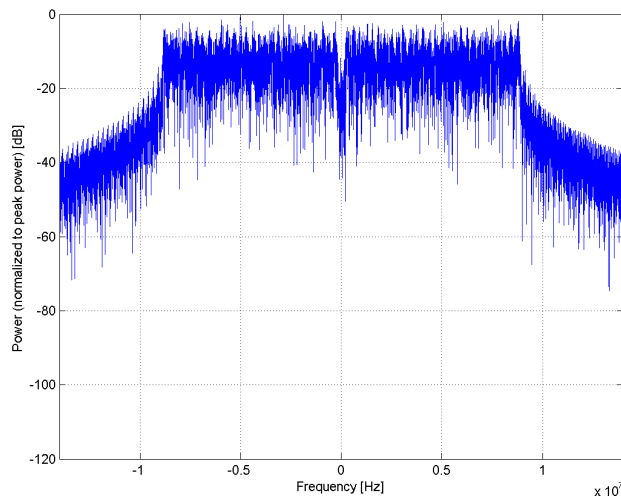
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

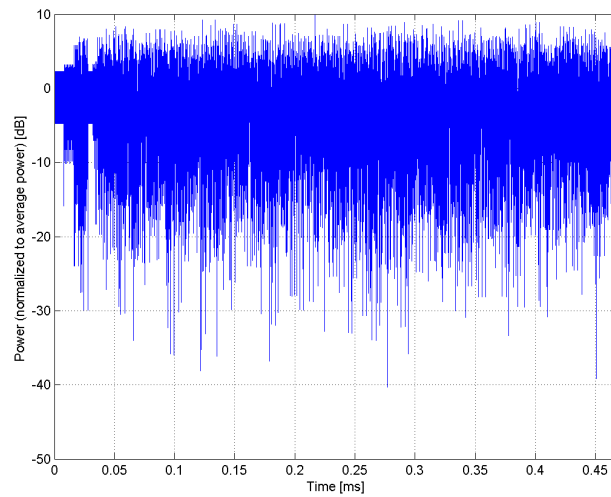
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10534-AAD

PAR: ¹ **8.45 dB**
MIF: ² **-11.92 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

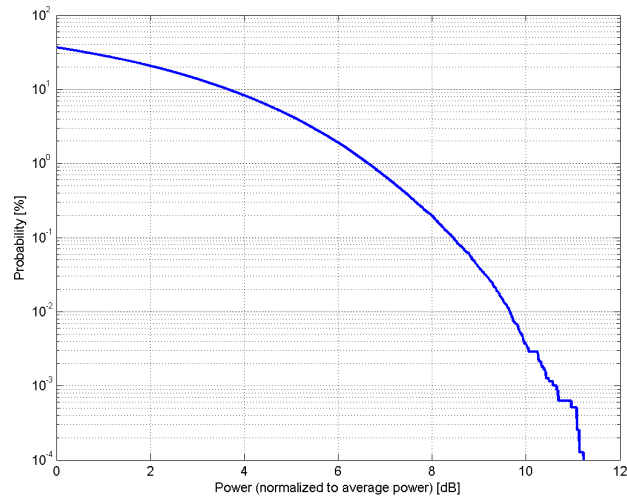
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 8192

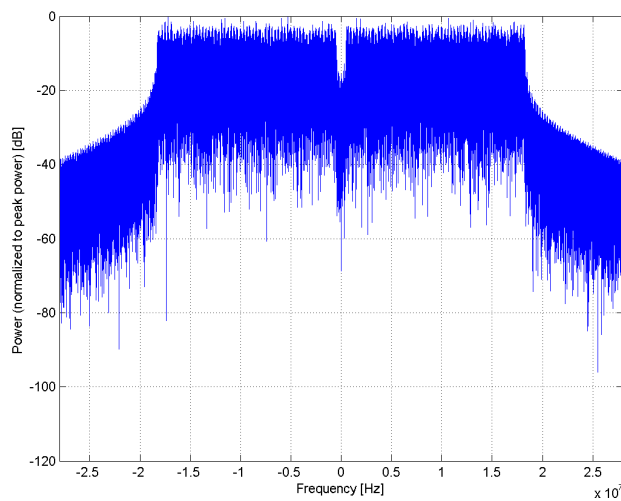
Bandwidth: 40.0 MHz
Integration Time: 4.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

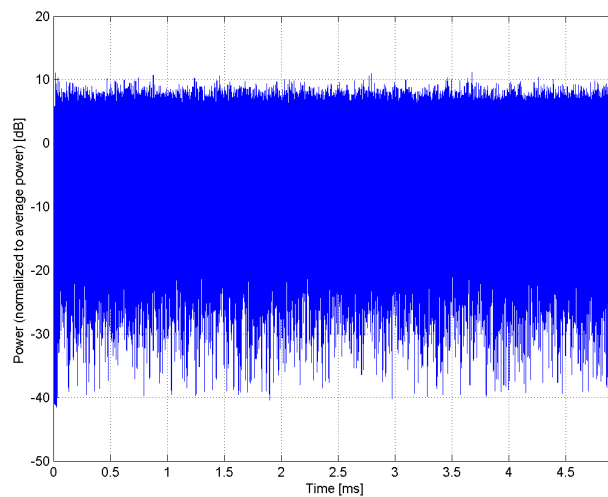
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10535-AAD

PAR: ¹ **8.45 dB**
MIF: ² **-13.12 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

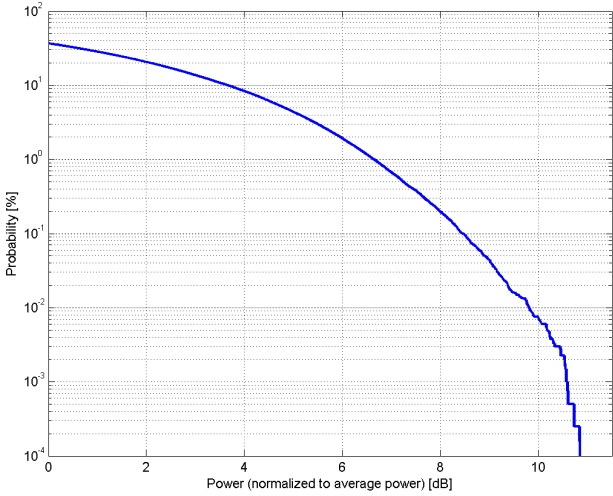
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 8192

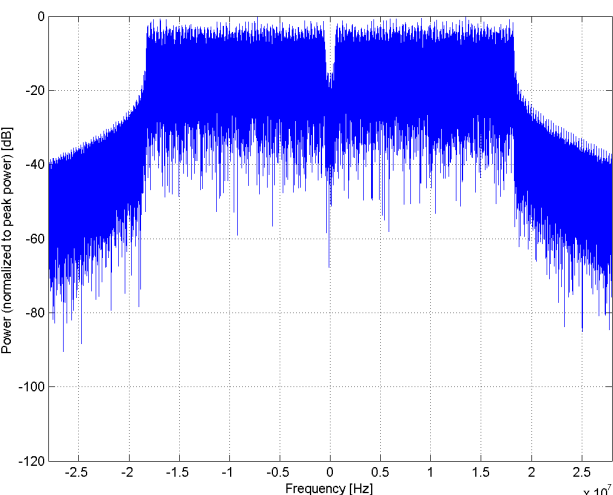
Bandwidth: 40.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

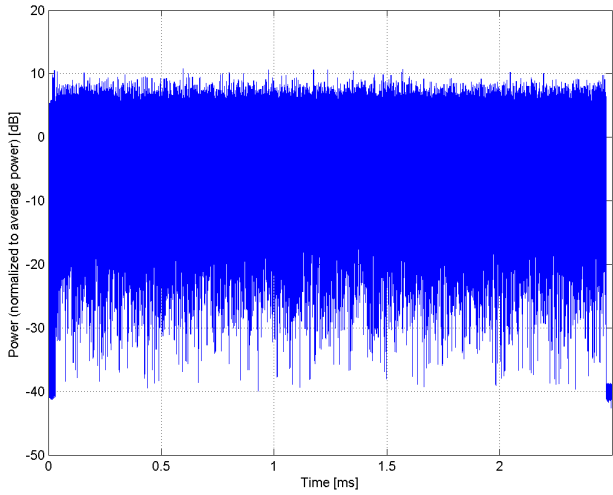
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10536-AAD

PAR: ¹ **8.32 dB**
MIF: ² **-13.53 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

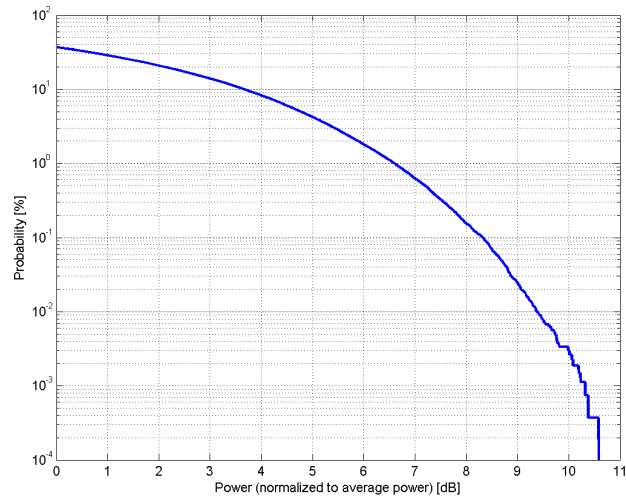
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 2
Number of spatial streams: 1
MPDU length: 8192

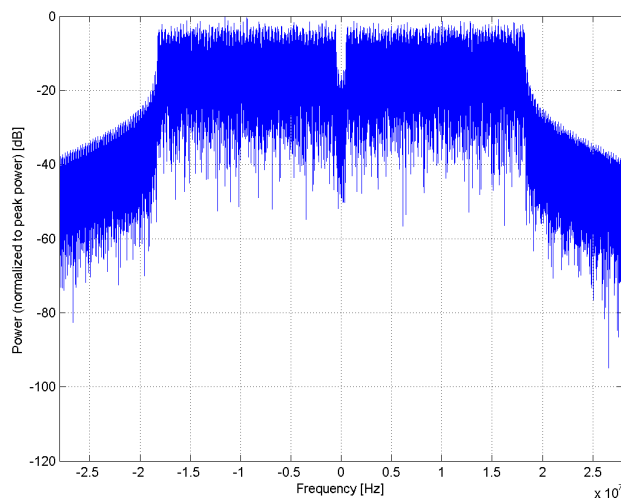
Bandwidth: 40.0 MHz
Integration Time: 1.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

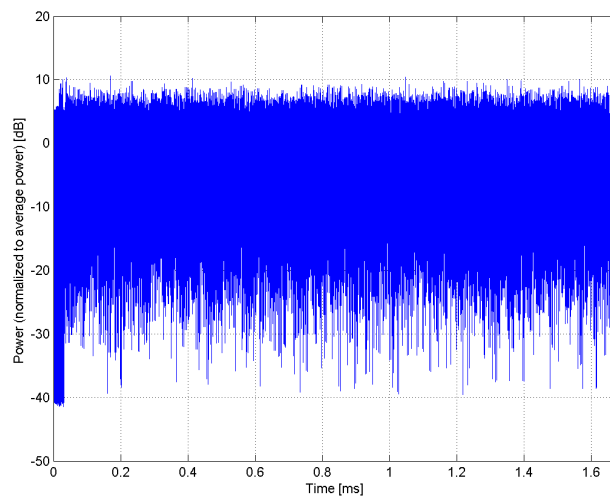
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10537-AAD

PAR: ¹ **8.44 dB**
MIF: ² **-13.52 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

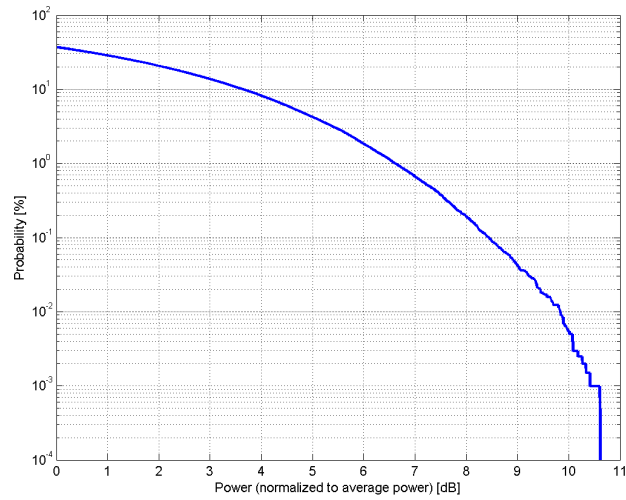
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 8192

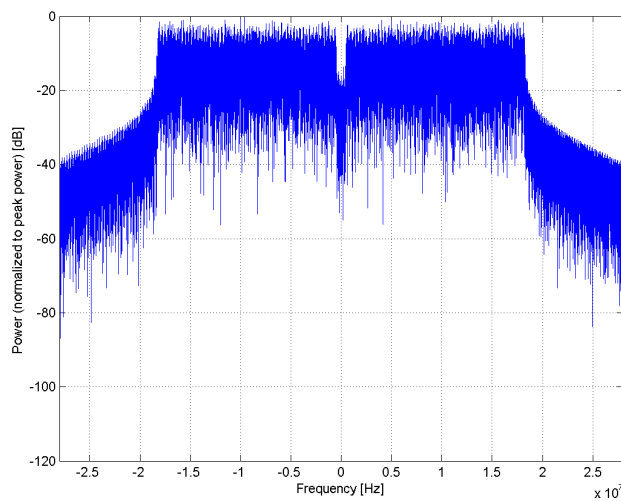
Bandwidth: 40.0 MHz
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

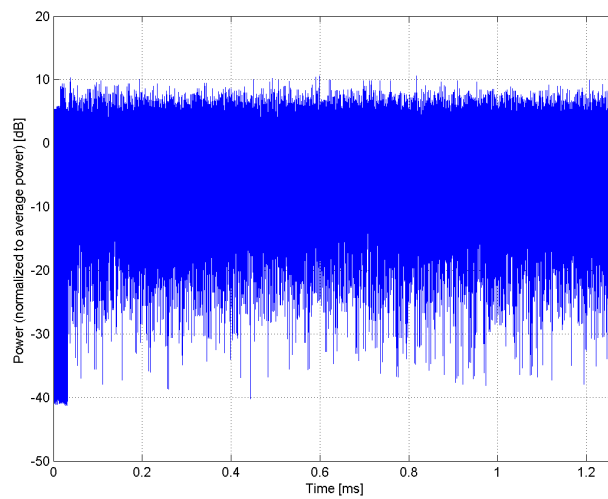
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10538-AAD

PAR: ¹ **8.54 dB**
MIF: ² **-14.39 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

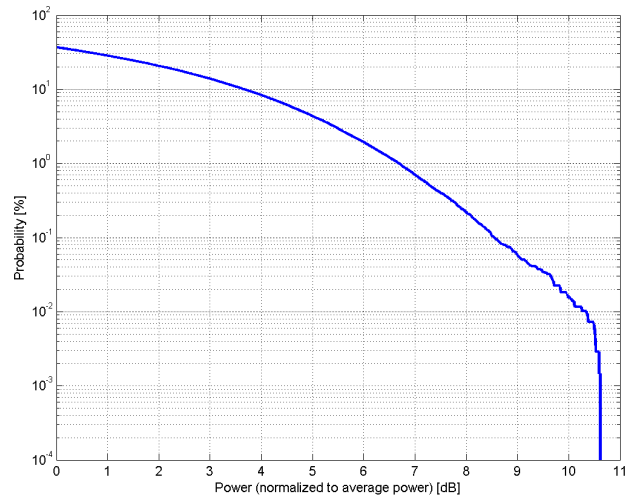
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 4
Number of spatial streams: 1
MPDU length: 8192

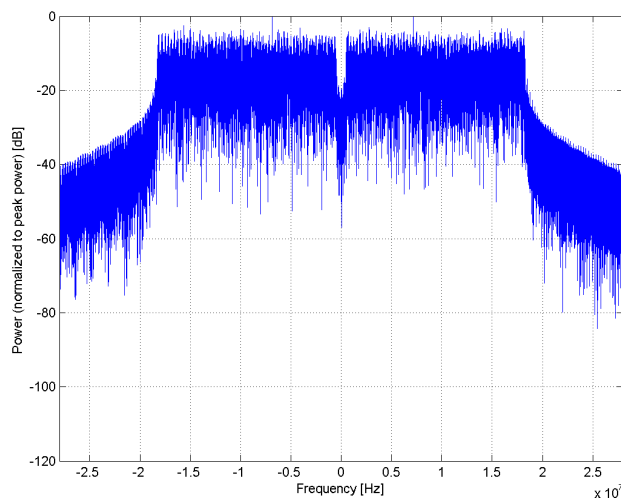
Bandwidth: 40.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

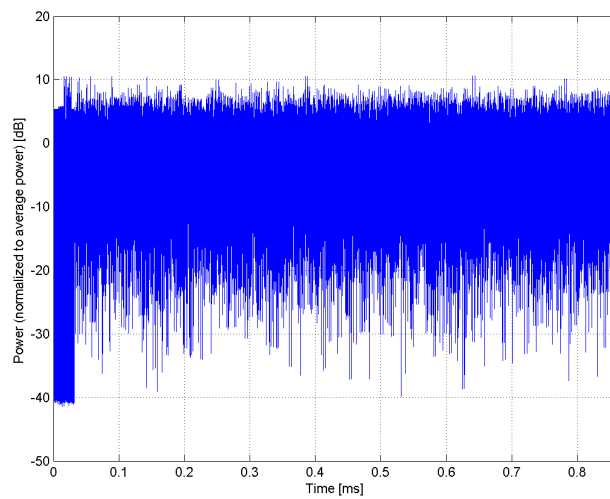
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10540-AAD

PAR: ¹ **8.39 dB**
MIF: ² **-15.33 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

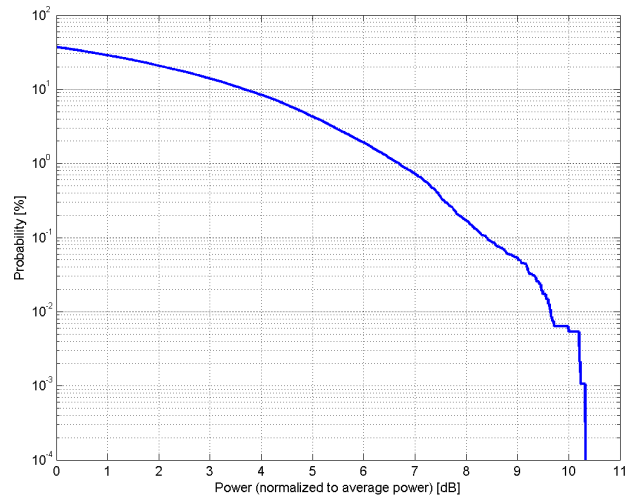
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 6
Number of spatial streams: 1
MPDU length: 8192

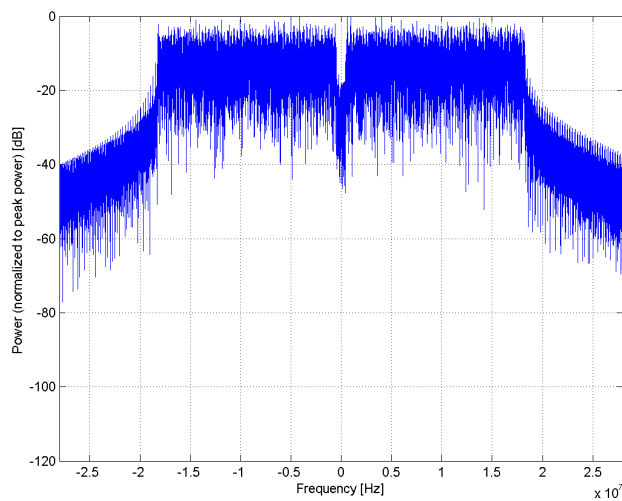
Bandwidth: 40.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

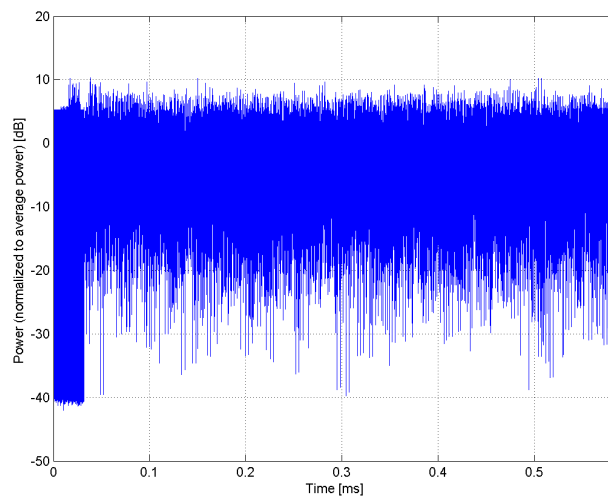
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10541-AAD

PAR: ¹ **8.46 dB**
MIF: ² **-14.92 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

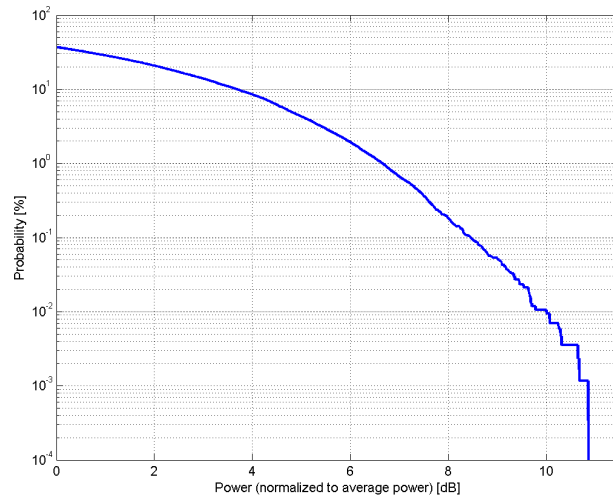
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 7
Number of spatial streams: 1
MPDU length: 8192

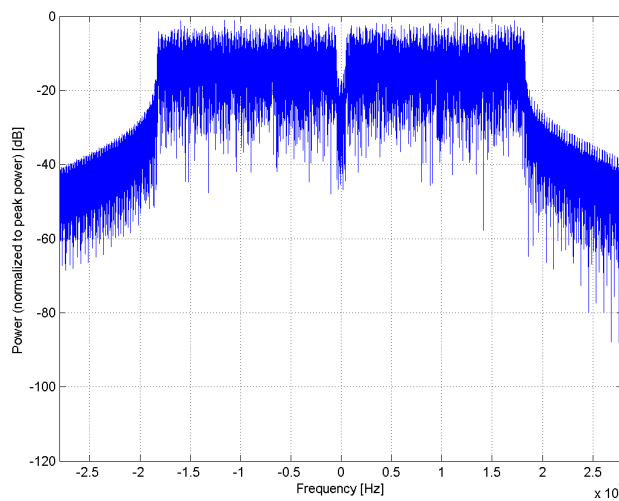
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

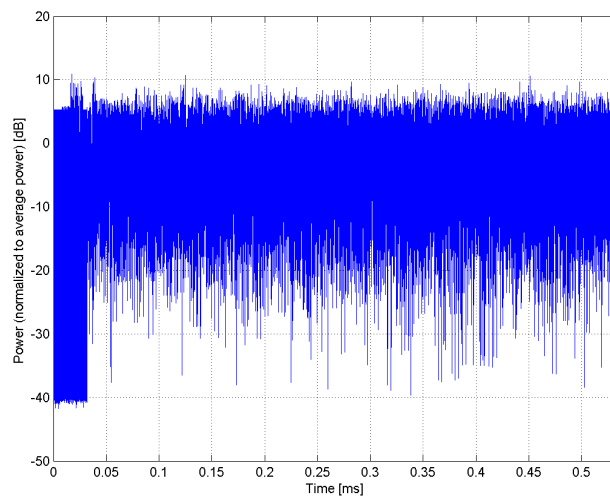
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10542-AAD

PAR: ¹ **8.65 dB**
MIF: ² **-14.56 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

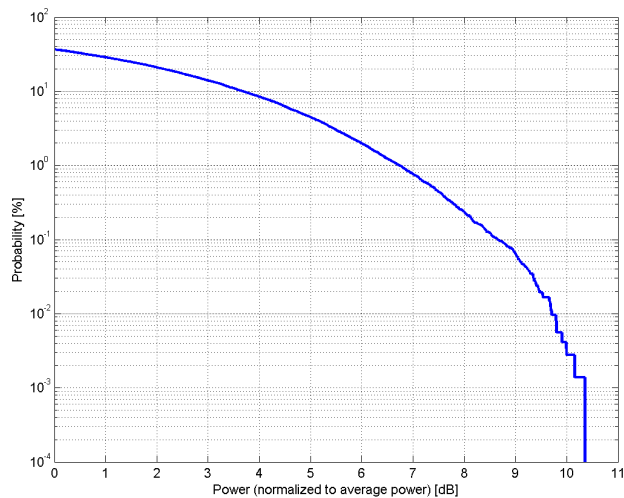
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 8
Number of spatial streams: 1
MPDU length: 8192

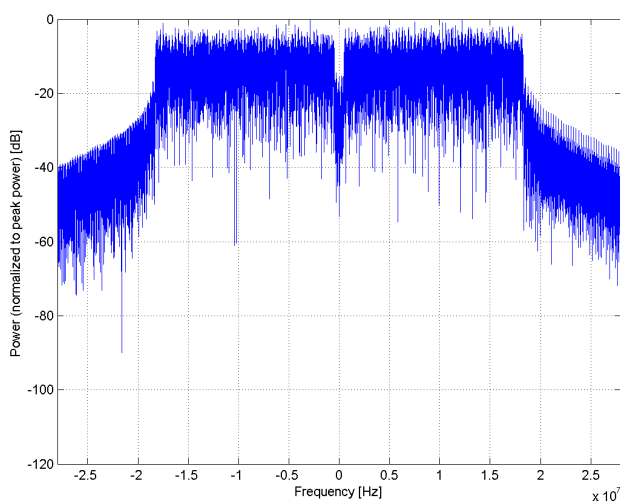
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

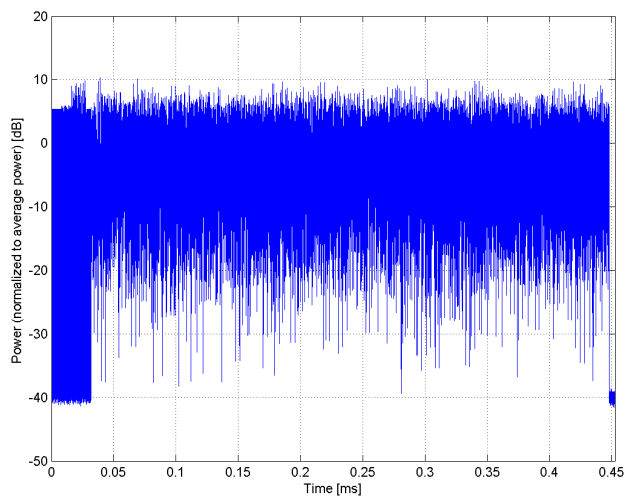
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10543-AAD

PAR: ¹ **8.65 dB**
MIF: ² **-15.76 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

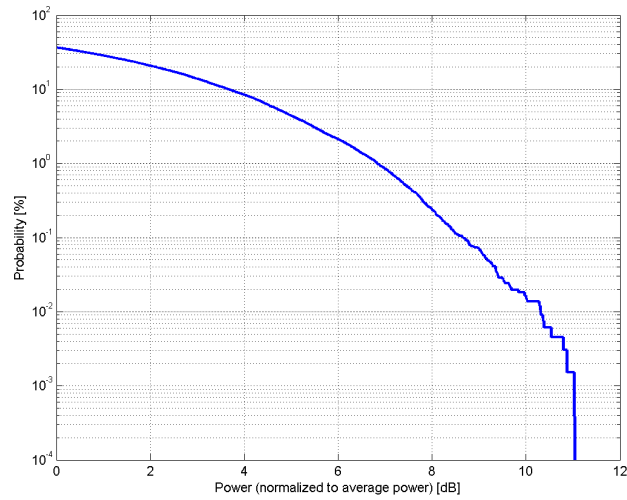
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 99%
MCS: 9
Number of spatial streams: 1
MPDU length: 8192

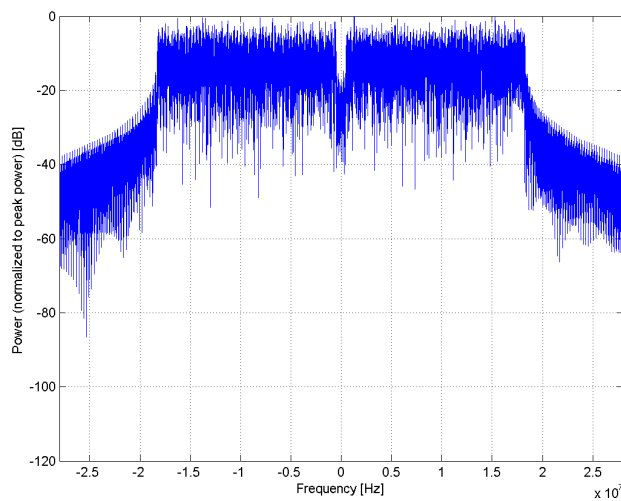
Bandwidth: 40.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

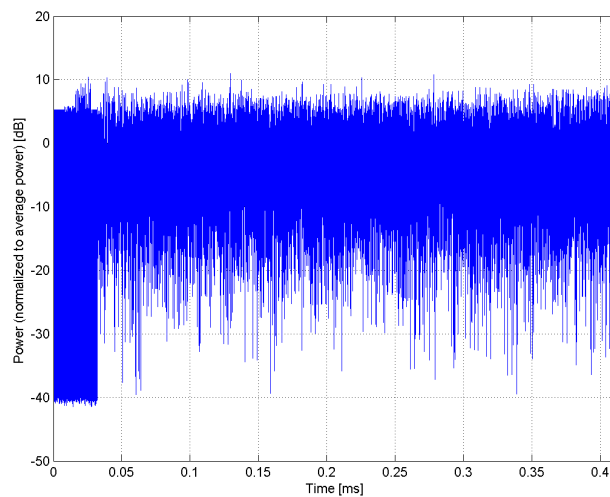
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10544-AAD

PAR: ¹ **8.47 dB**
MIF: ² **-13.78 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

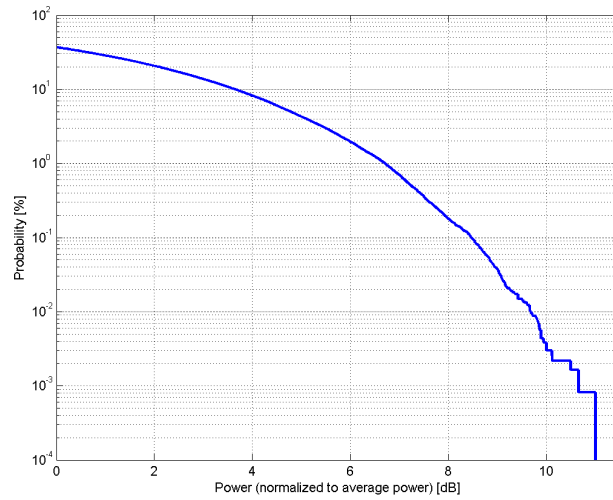
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 8192

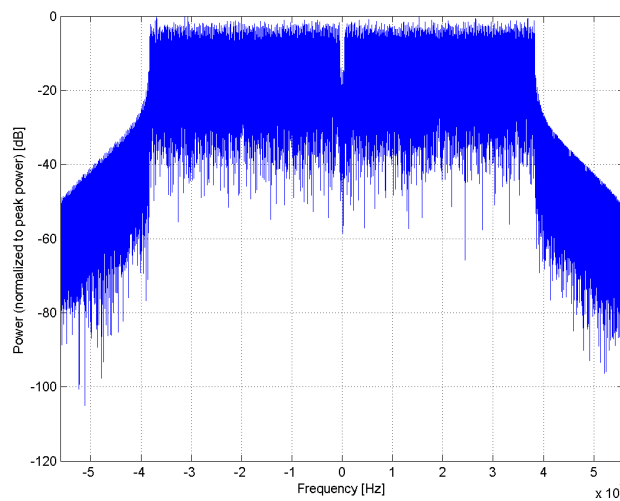
Bandwidth: 80.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

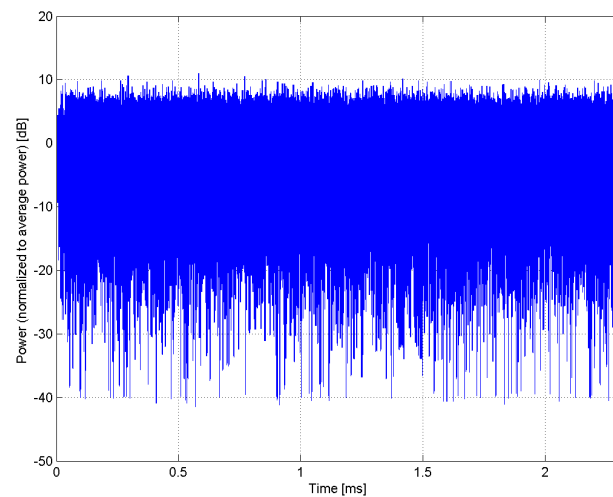
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10545-AAD

PAR: ¹ **8.55 dB**
MIF: ² **-14.73 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

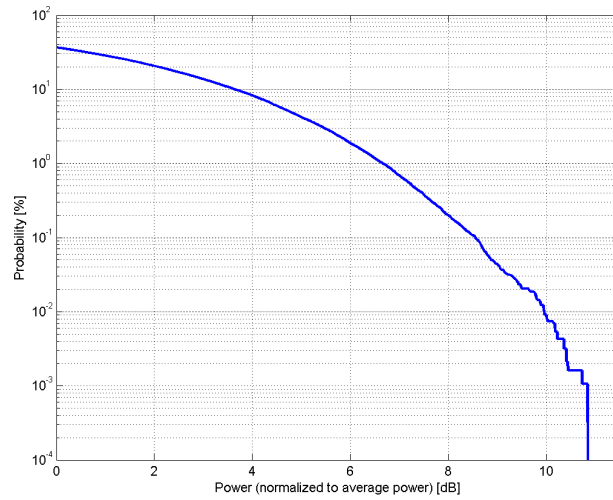
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 8192

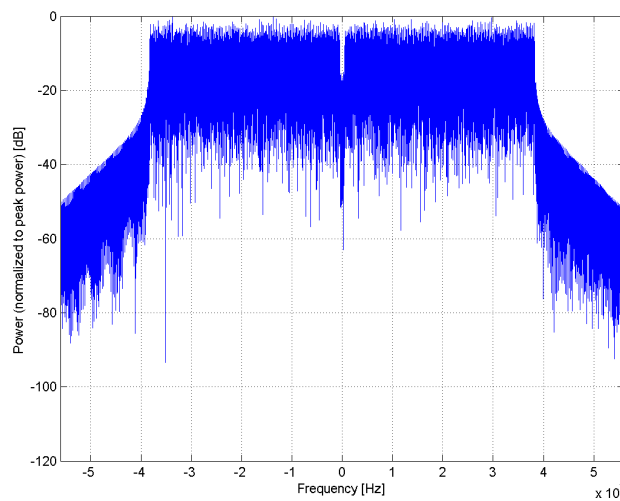
Bandwidth: 80.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

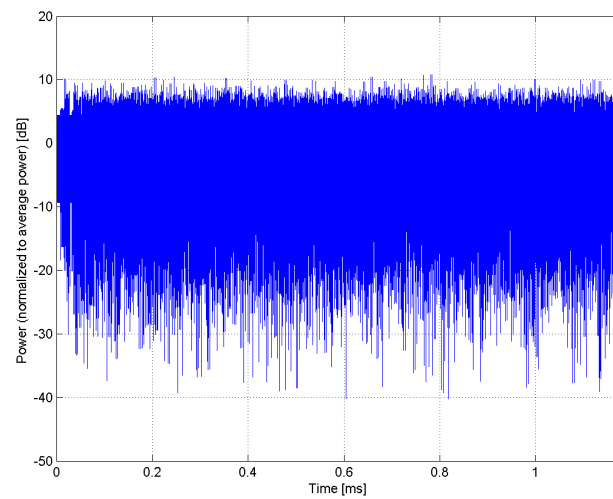
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10546-AAD

PAR: ¹ **8.35 dB**
MIF: ² **-15.59 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

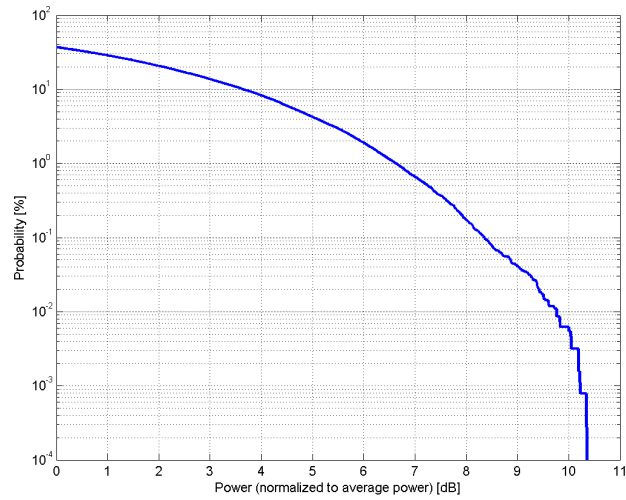
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 2
Number of spatial streams: 1
MPDU length: 8192

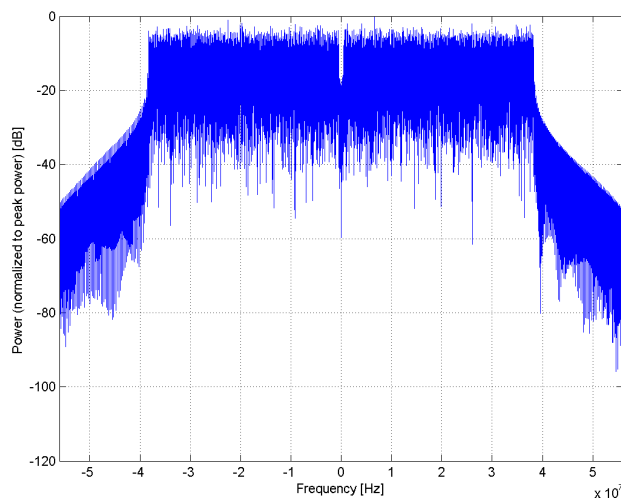
Bandwidth: 80.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

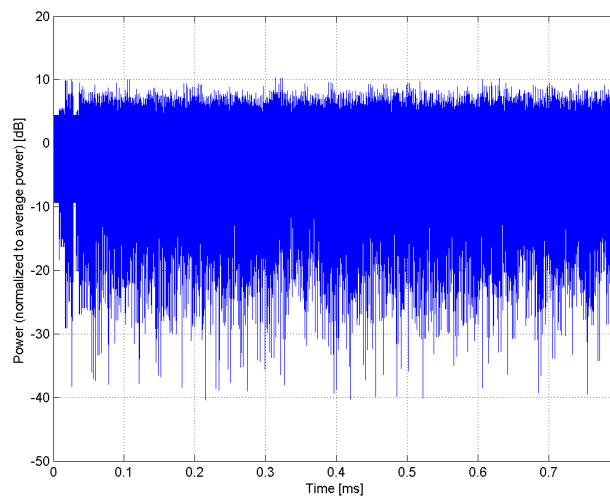
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10547-AAD

PAR: ¹ **8.49 dB**
MIF: ² **-16.92 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

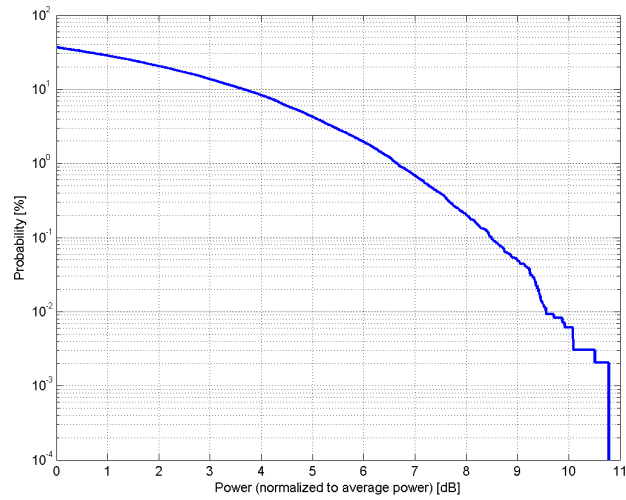
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 8192

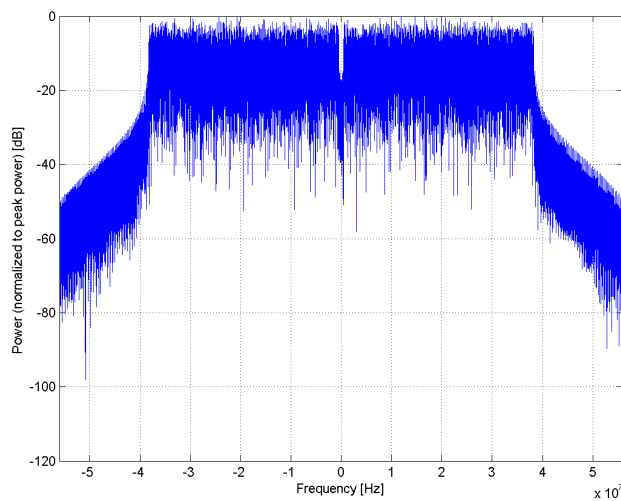
Bandwidth: 80.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

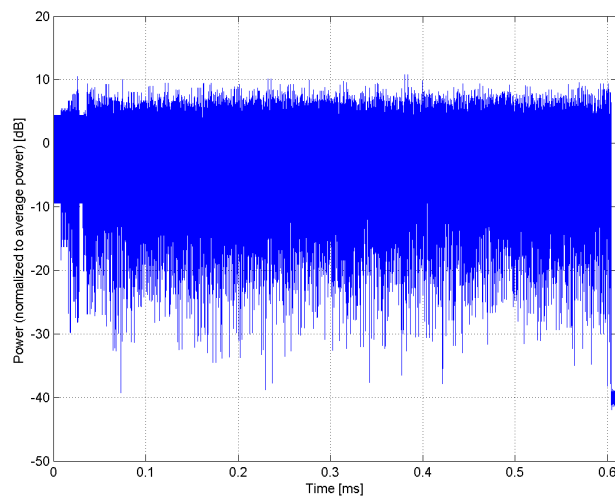
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10548-AAD

PAR: ¹ **8.37 dB**
MIF: ² **-18.67 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

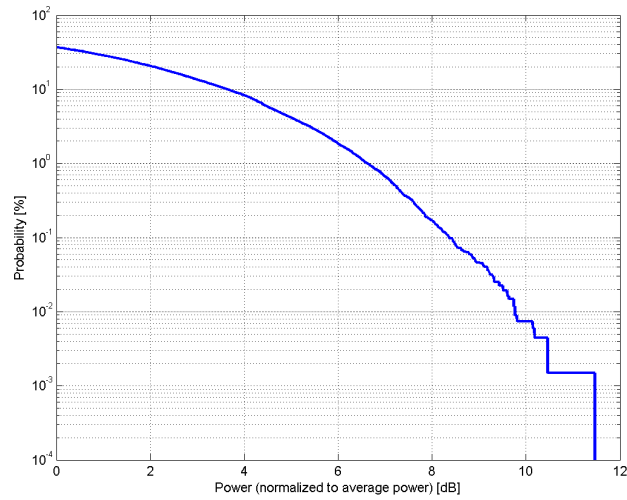
Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 4
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 80.0 MHz

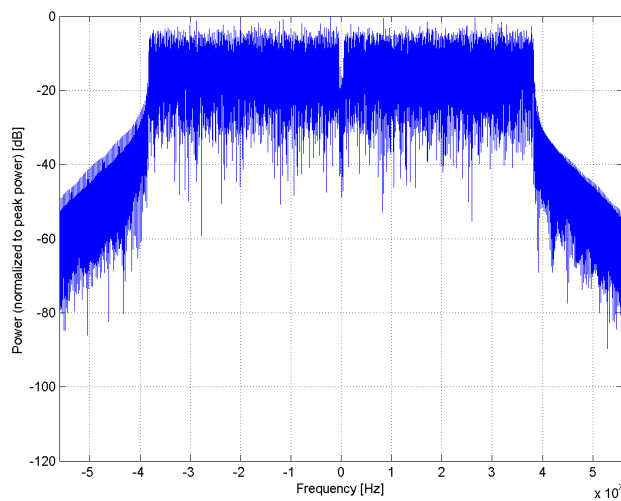
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

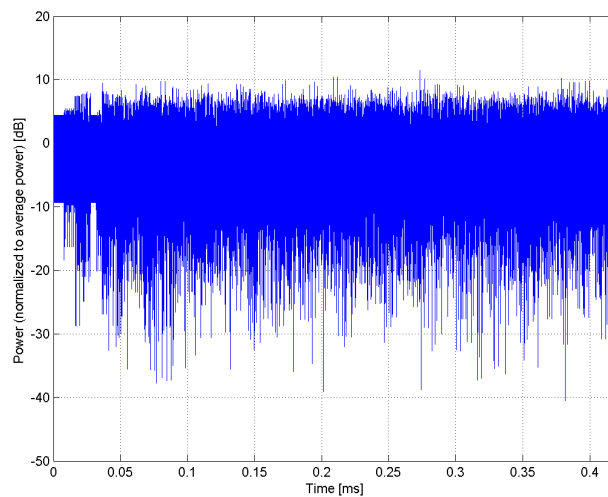
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10550-AAD

PAR: ¹ **8.38 dB**
MIF: ² **-19.70 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

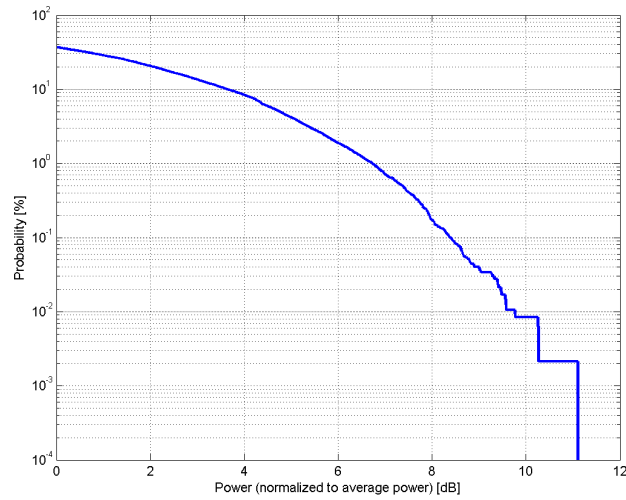
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 6
Number of spatial streams: 1
MPDU length: 8192

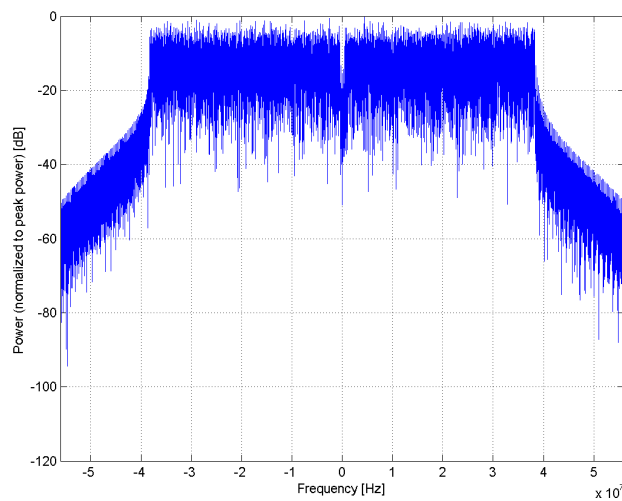
Bandwidth: 80.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

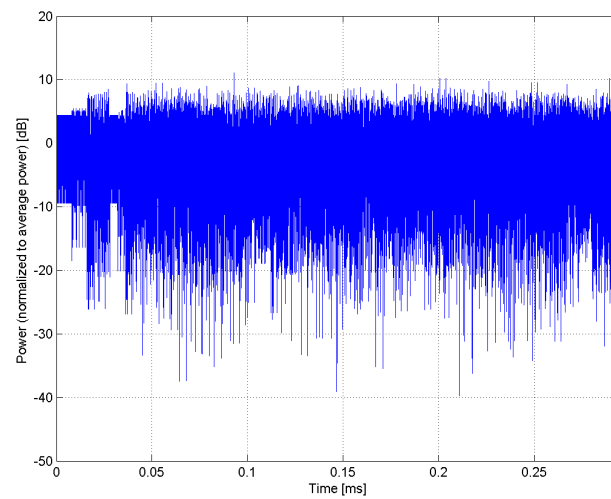
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10551-AAD

PAR: ¹ **8.50 dB**
MIF: ² **-19.55 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

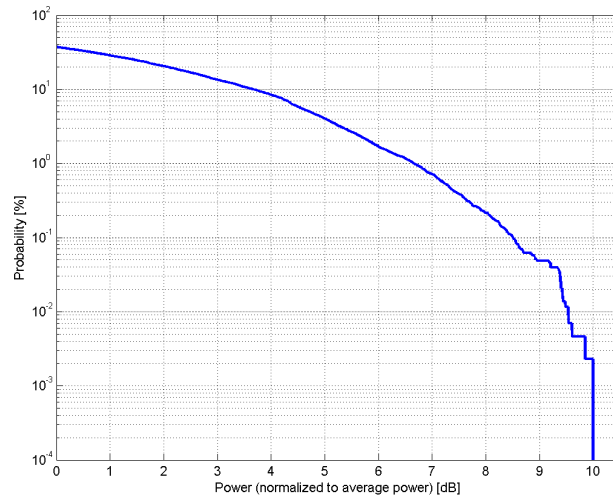
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 7
Number of spatial streams: 1
MPDU length: 8192

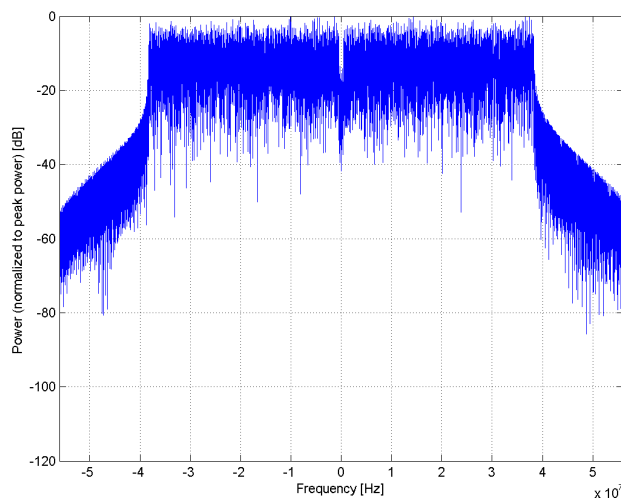
Bandwidth: 80.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

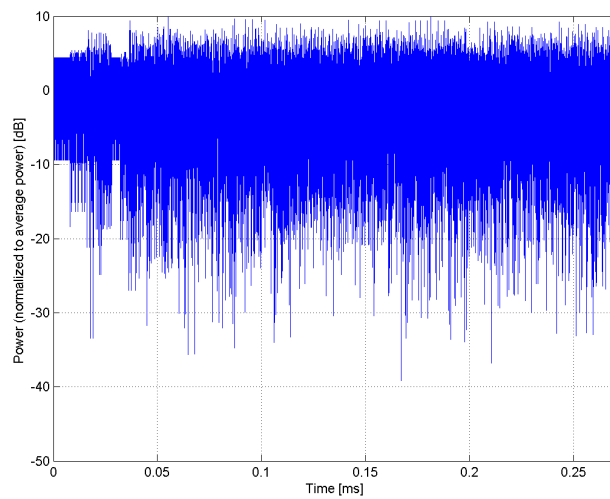
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10552-AAD

PAR: ¹ **8.42 dB**
MIF: ² **-21.54 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

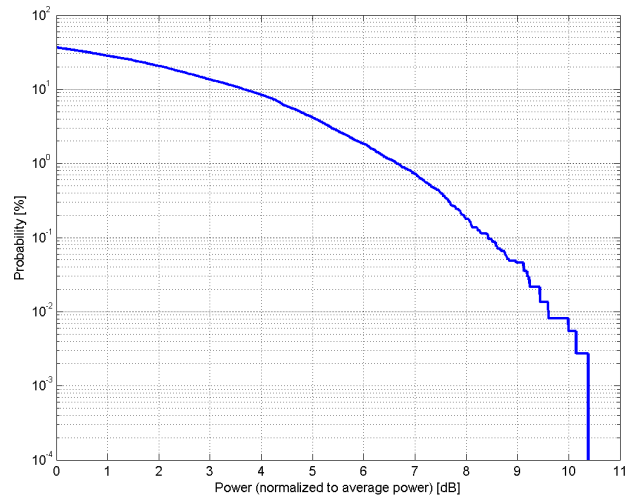
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 8
Number of spatial streams: 1
MPDU length: 8192

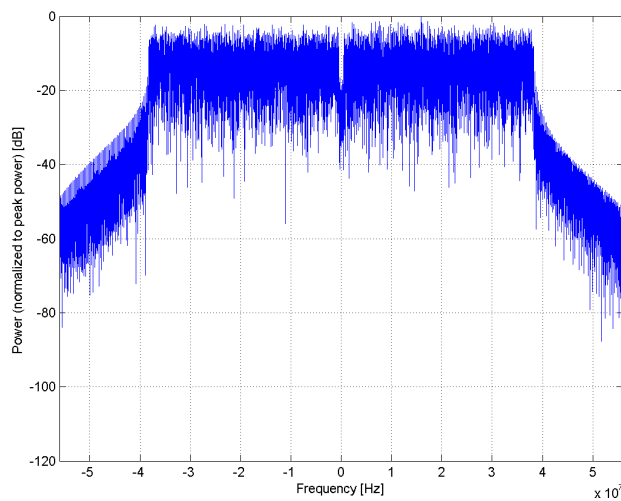
Bandwidth: 80.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

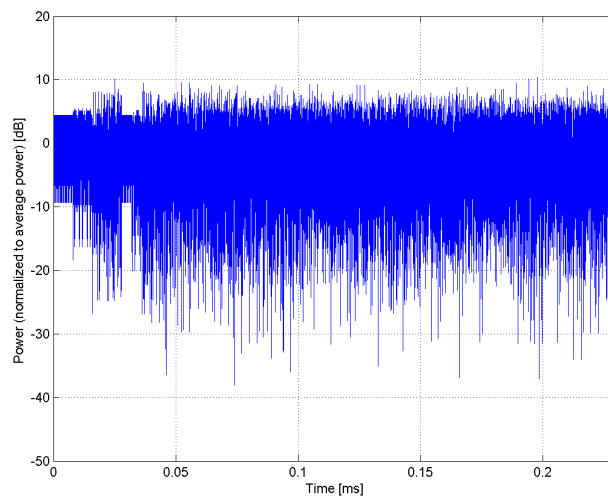
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10553-AAD

PAR: ¹ **8.45 dB**
MIF: ² **-23.01 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

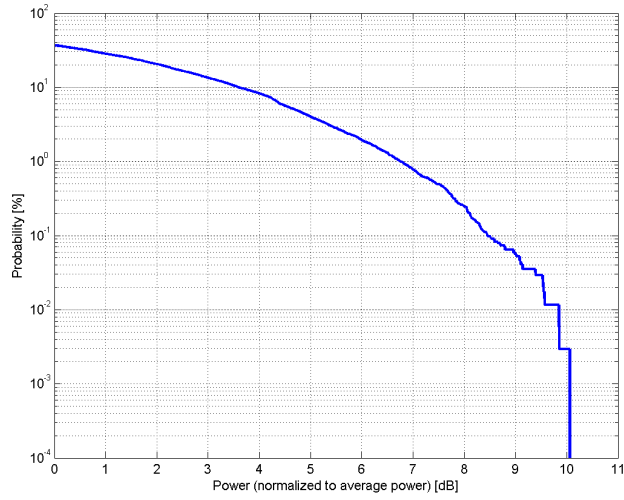
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 99%
MCS: 9
Number of spatial streams: 1
MPDU length: 8192

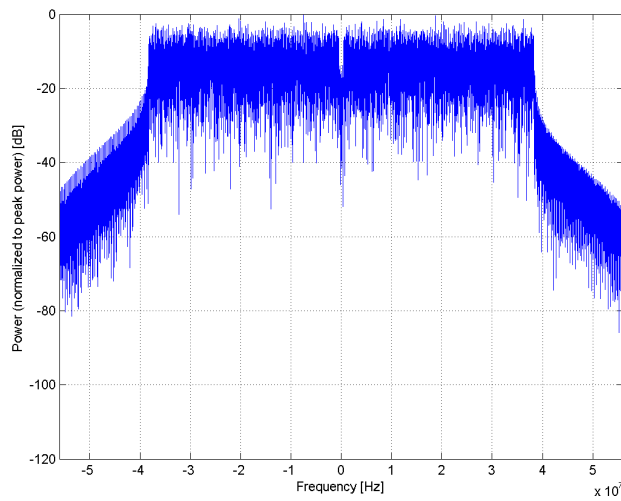
Bandwidth: 80.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

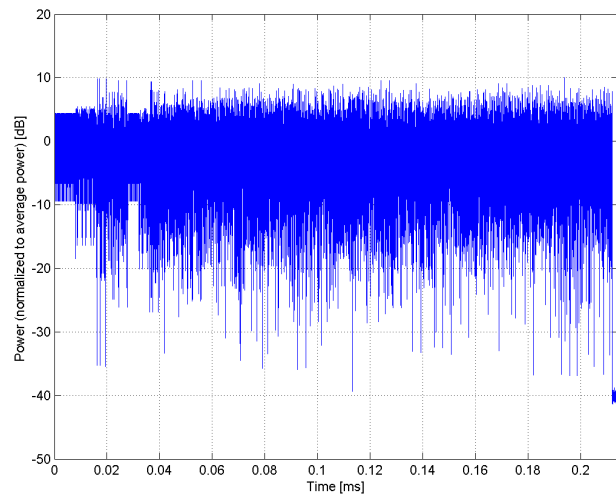
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10554-AAE

PAR: ¹ **8.48 dB**
MIF: ² **-12.12 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

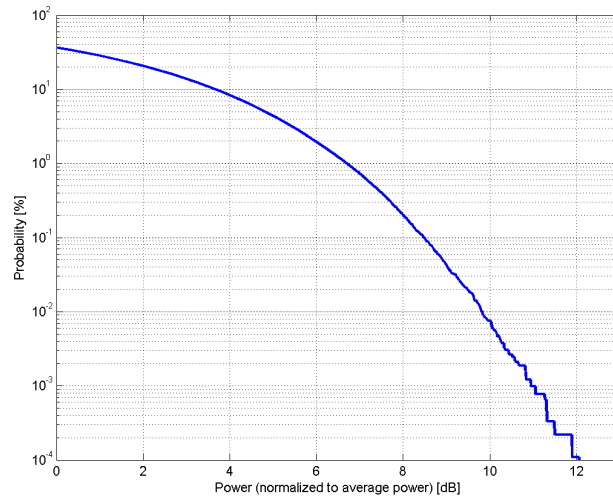
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 0
Number of spatial streams: 1
MPDU length: 32768

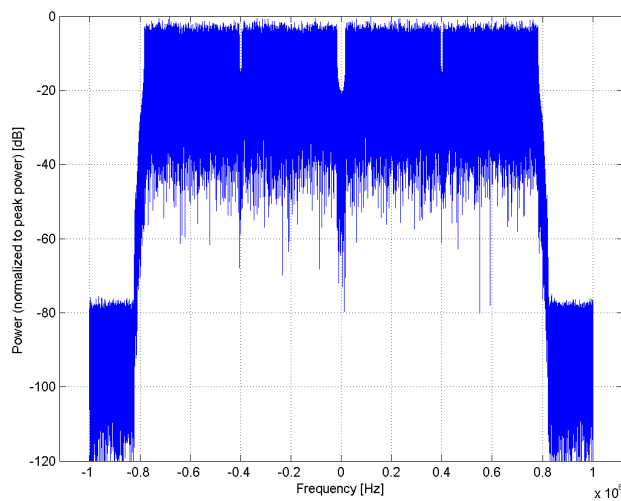
Bandwidth: 160.0 MHz
Integration Time: 4.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

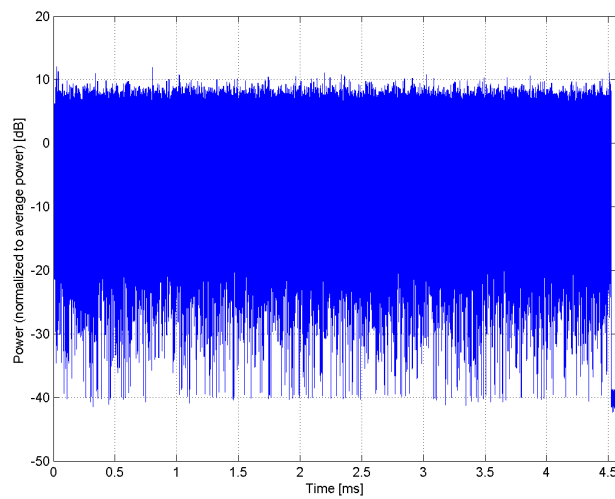
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10555-AAE

PAR: ¹ **8.47 dB**
MIF: ² **-13.15 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

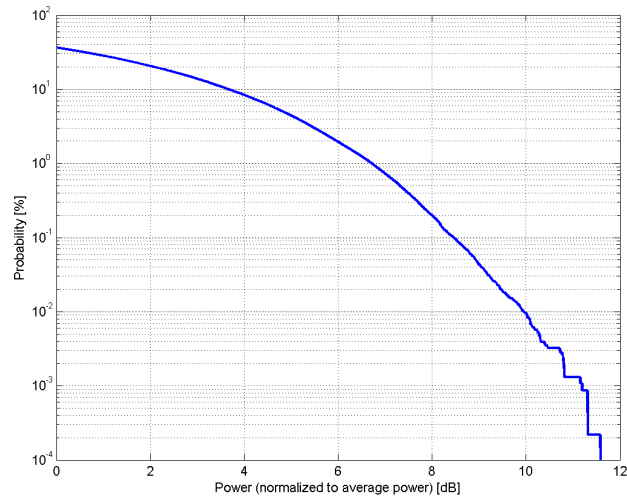
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 1
Number of spatial streams: 1
MPDU length: 32768

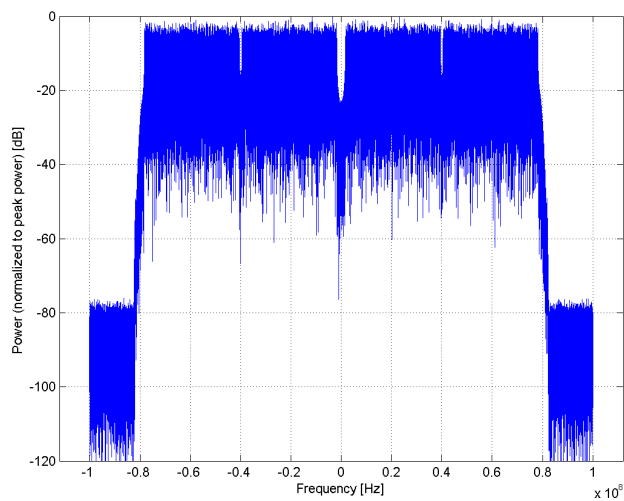
Bandwidth: 160.0 MHz
Integration Time: 2.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

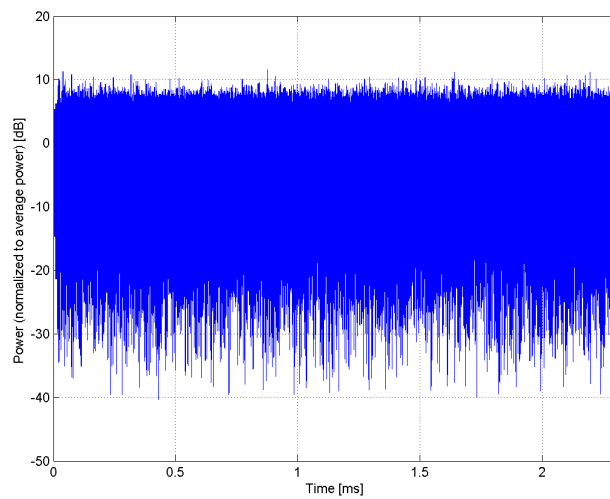
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10556-AAE

PAR: ¹ **8.50 dB**
MIF: ² **-13.55 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

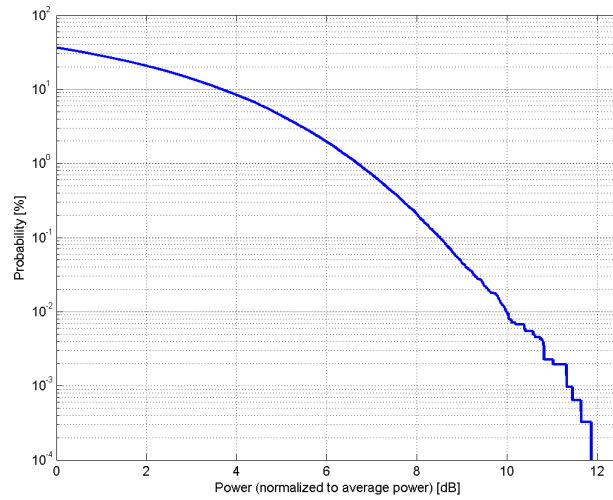
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 2
Number of spatial streams: 1
MPDU length: 32768

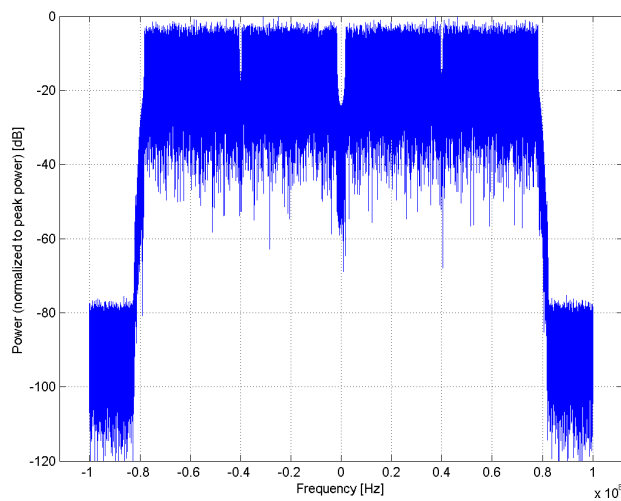
Bandwidth: 160.0 MHz
Integration Time: 1.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

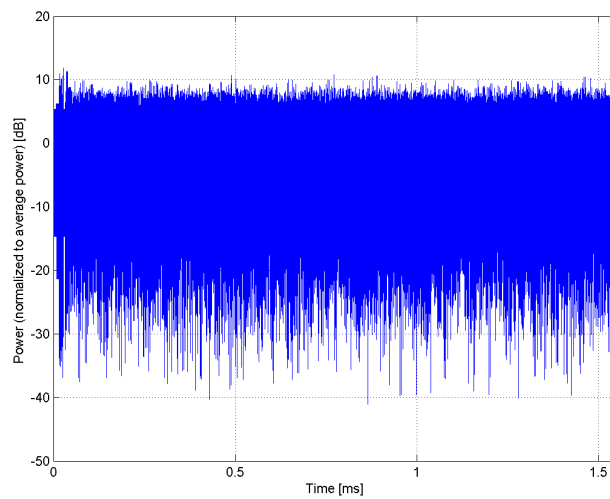
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10557-AAE

PAR: ¹ **8.52 dB**
MIF: ² **-13.89 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

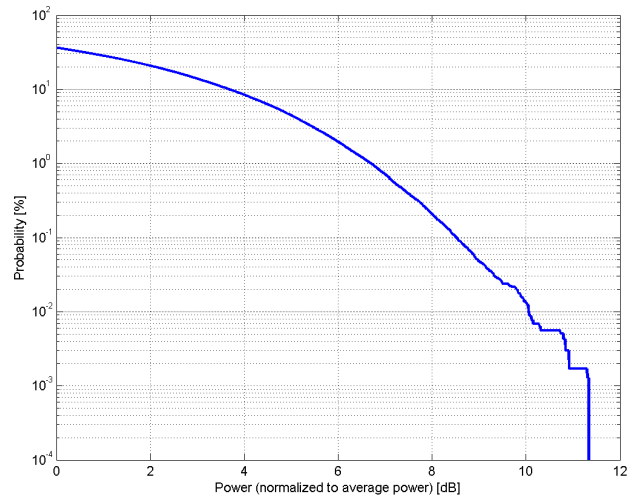
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 3
Number of spatial streams: 1
MPDU length: 32768

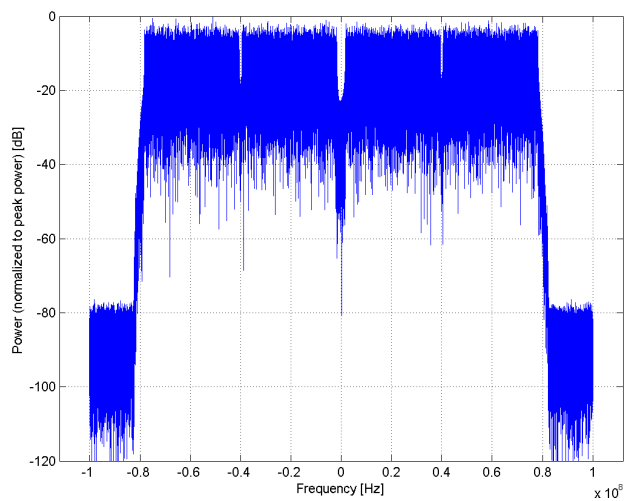
Bandwidth: 160.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

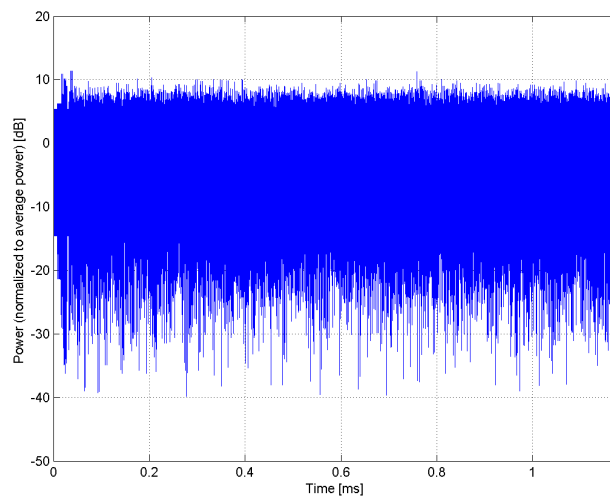
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10558-AAE

PAR: ¹ **8.61 dB**
MIF: ² **-14.15 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

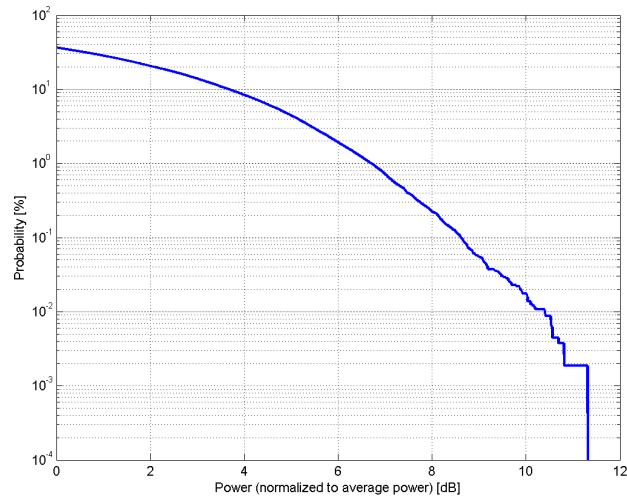
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 4
Number of spatial streams: 1
MPDU length: 32768

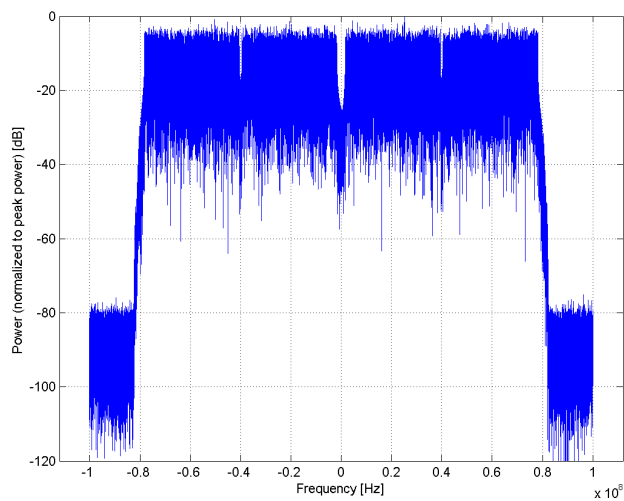
Bandwidth: 160.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

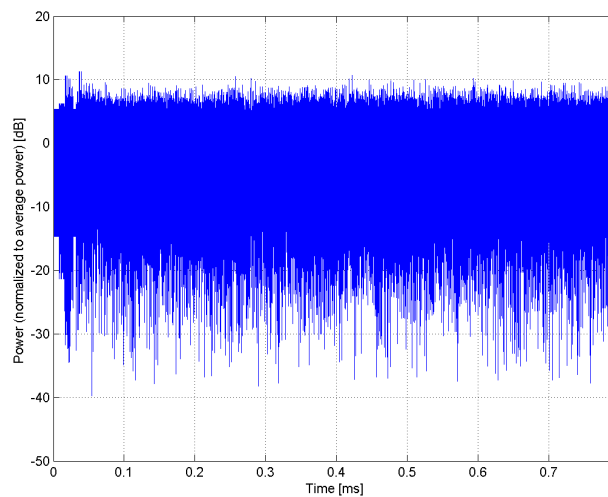
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10560-AAE

PAR: ¹ **8.73 dB**
MIF: ² **-14.69 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

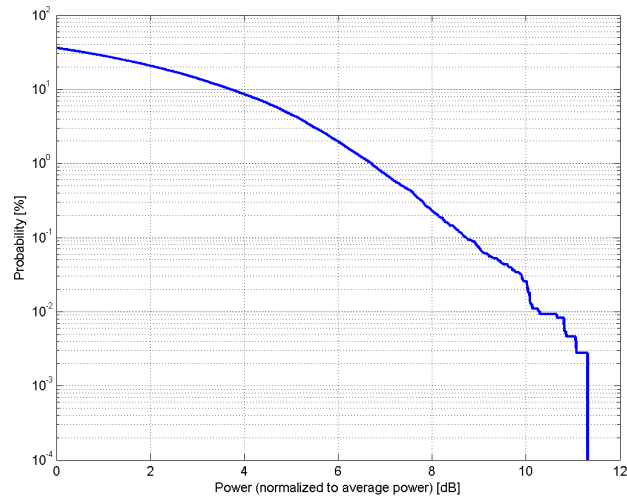
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 6
Number of spatial streams: 1
MPDU length: 32768

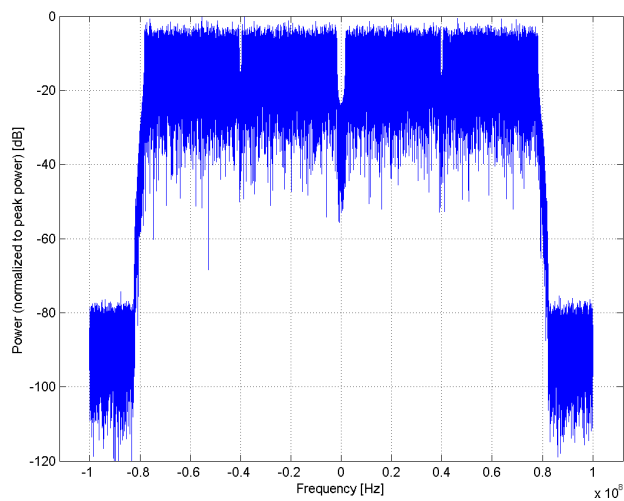
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

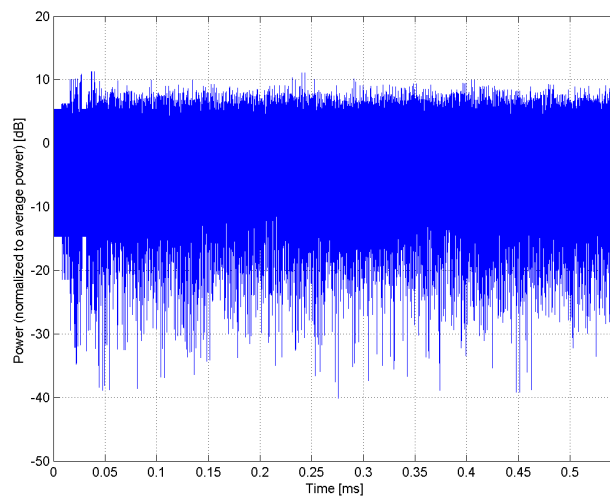
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10561-AAE

PAR: ¹ **8.56 dB**
MIF: ² **-15.13 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

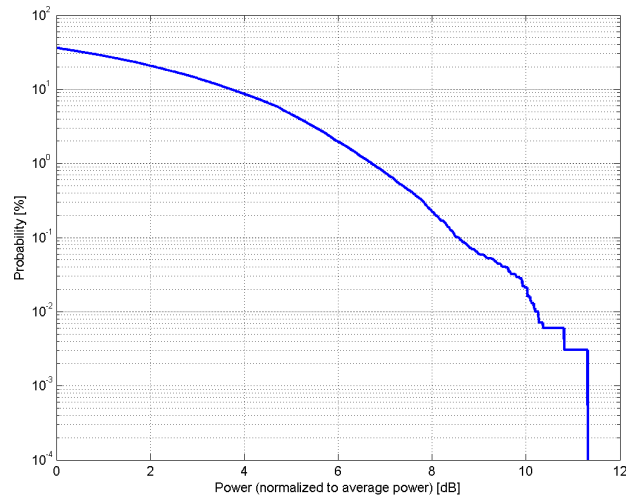
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 7
Number of spatial streams: 1
MPDU length: 32768

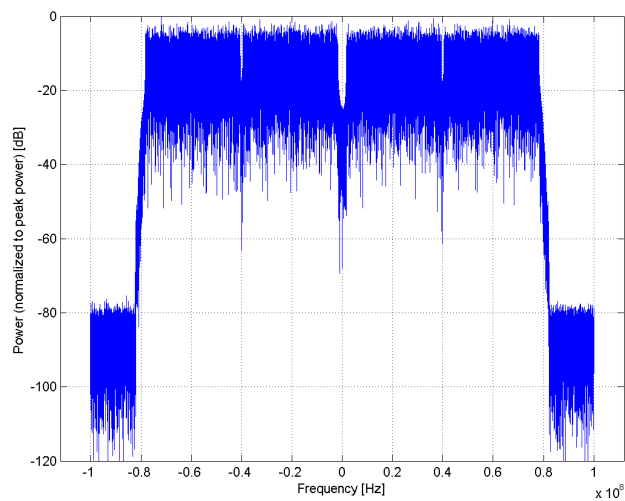
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

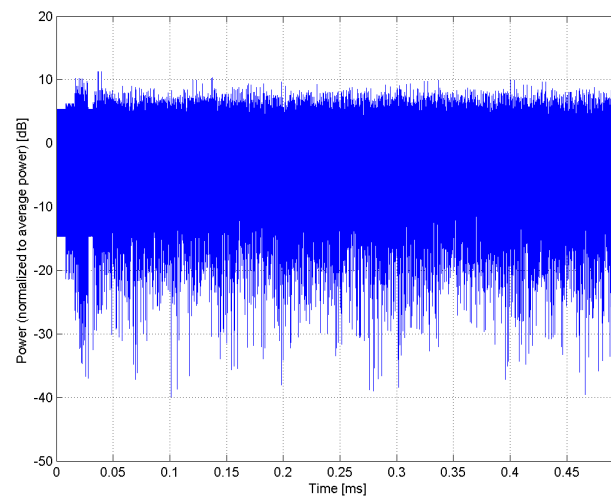
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10562-AAE

PAR: ¹ **8.69 dB**
MIF: ² **-15.04 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

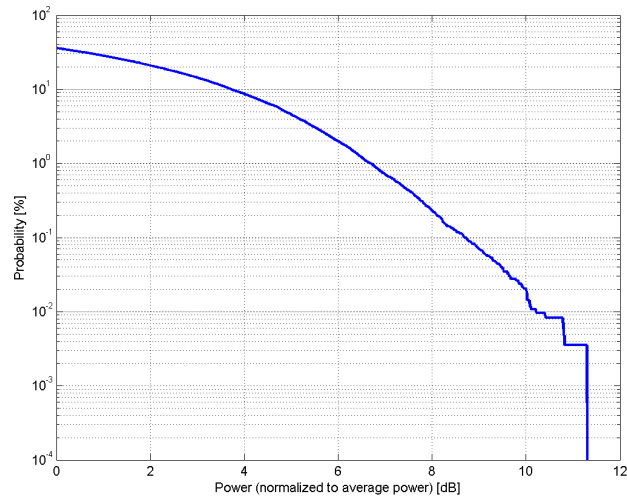
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 8
Number of spatial streams: 1
MPDU length: 32768

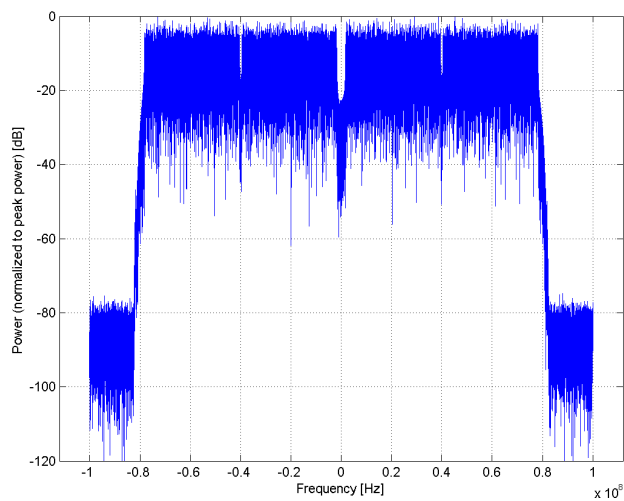
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

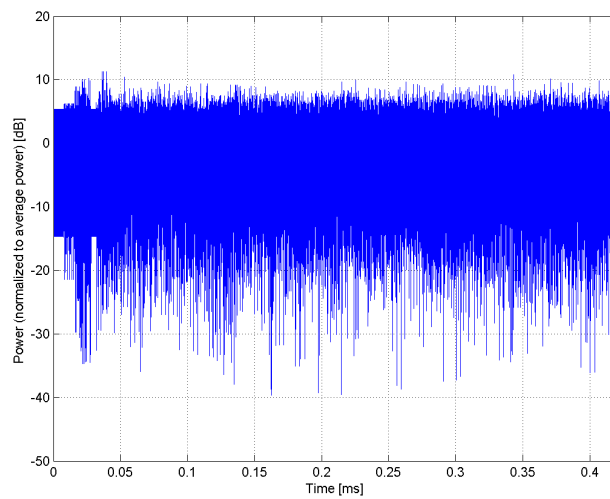
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10563-AAE

PAR: ¹ **8.77 dB**
MIF: ² **-15.40 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

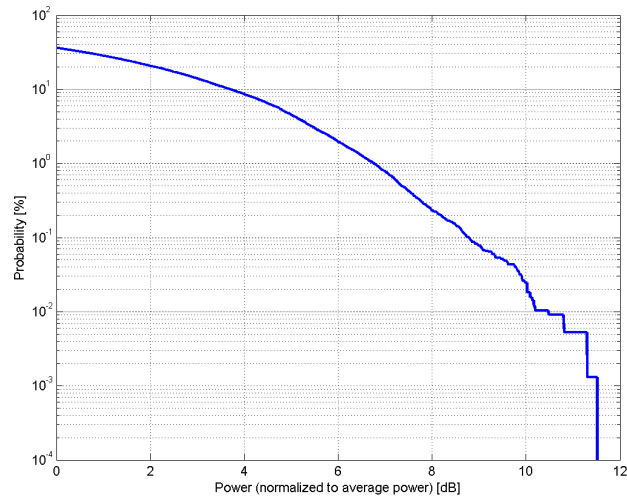
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 99%
MCS: 9
Number of spatial streams: 1
MPDU length: 32768

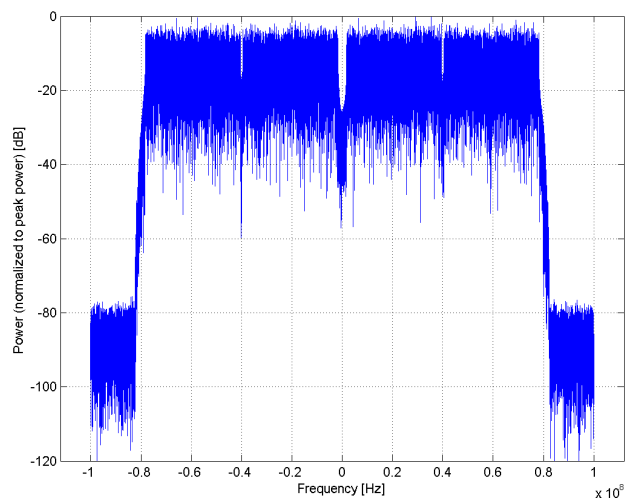
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

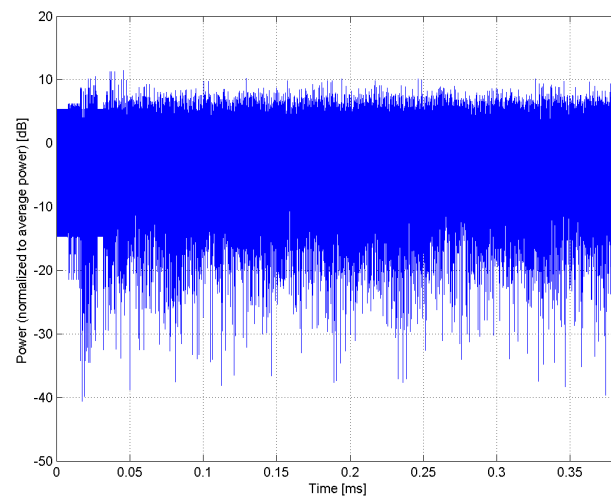
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)**

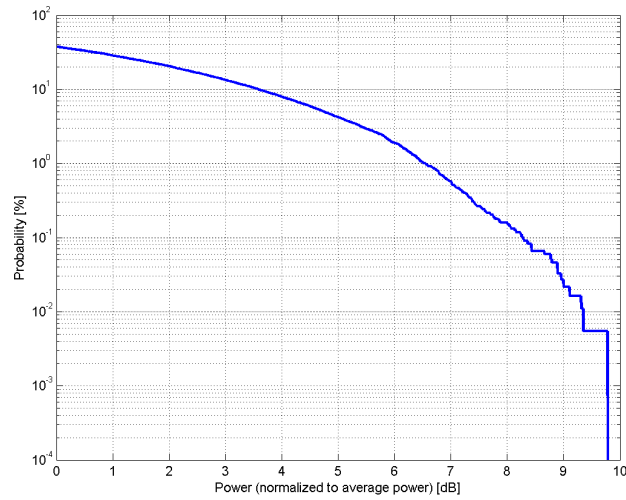
Group: WLAN
UID: 10564-AAA

PAR: ¹ **8.25 dB**
MIF: ² **-15.41 dB**

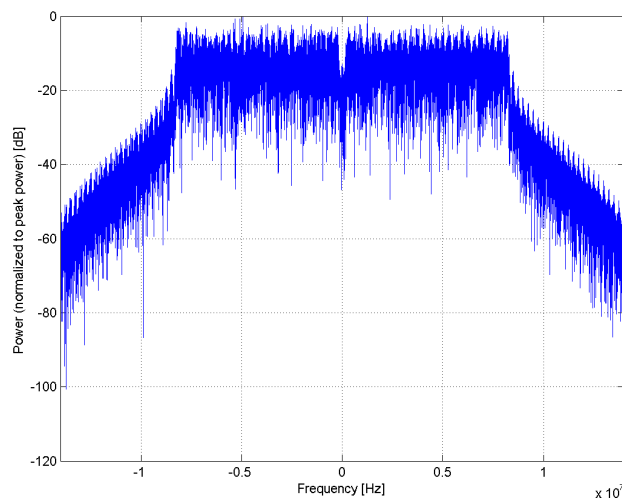
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 9Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

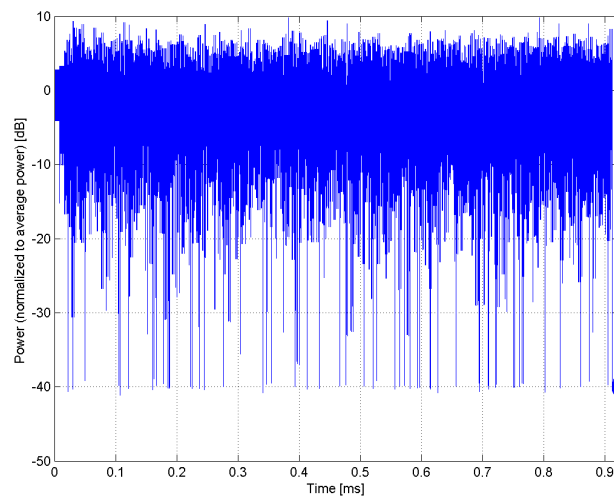
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)**

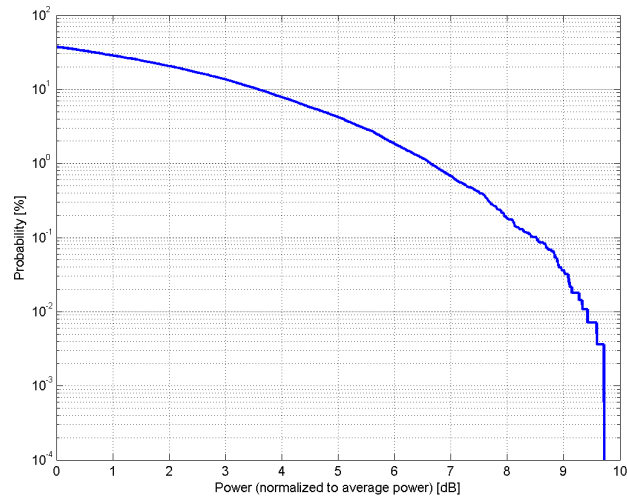
Group: WLAN
UID: 10565-AAA

PAR: ¹ **8.45 dB**
MIF: ² **-16.70 dB**

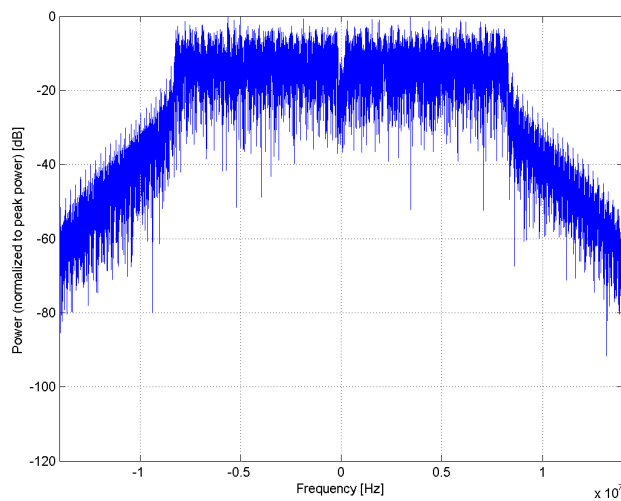
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 12Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

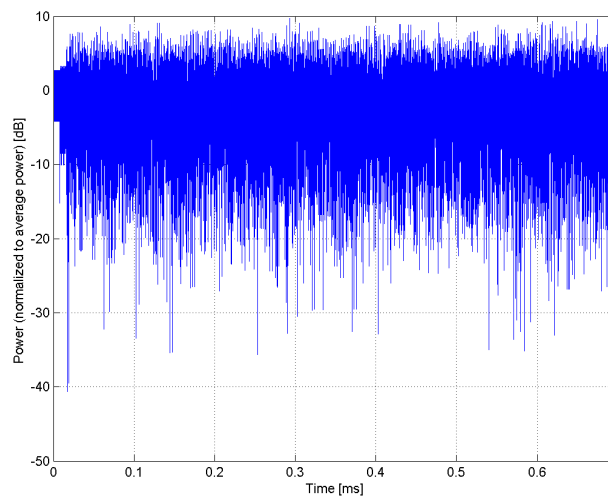
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)**

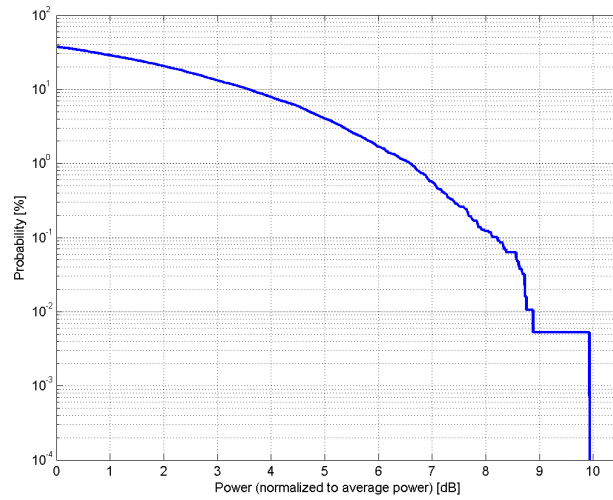
Group: WLAN
UID: 10566-AAA

PAR: ¹ **8.13 dB**
MIF: ² **-18.78 dB**

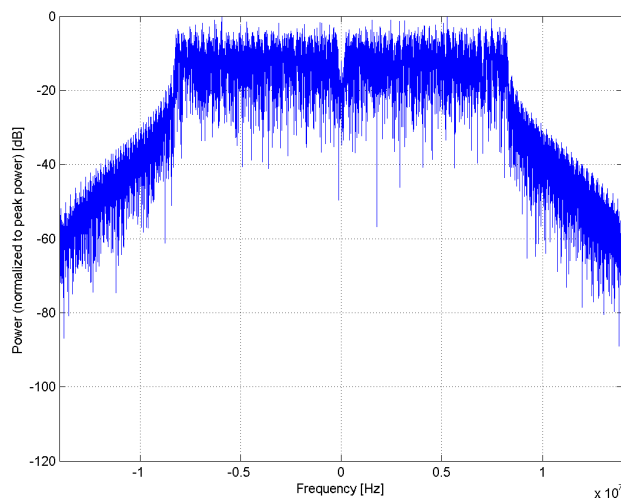
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 18Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

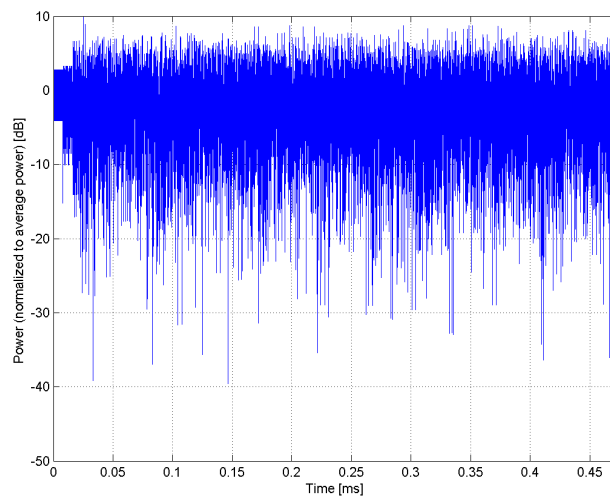
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)**

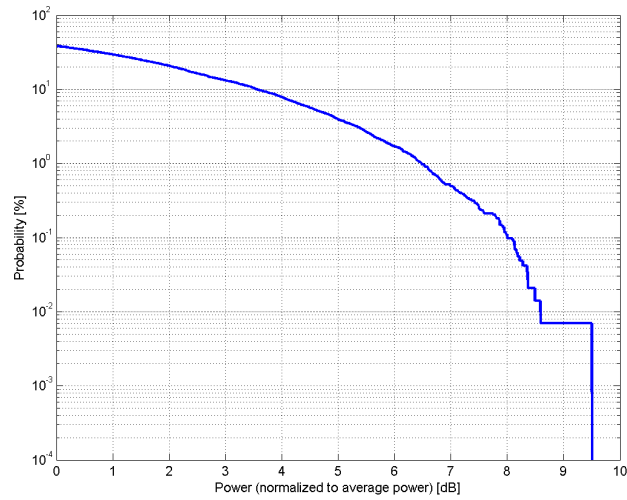
Group: WLAN
UID: 10567-AAA

PAR: ¹ **8.00 dB**
MIF: ² **-23.09 dB**

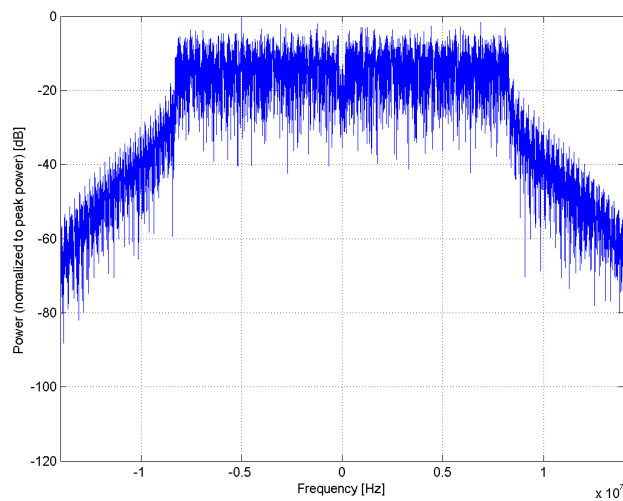
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 24Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

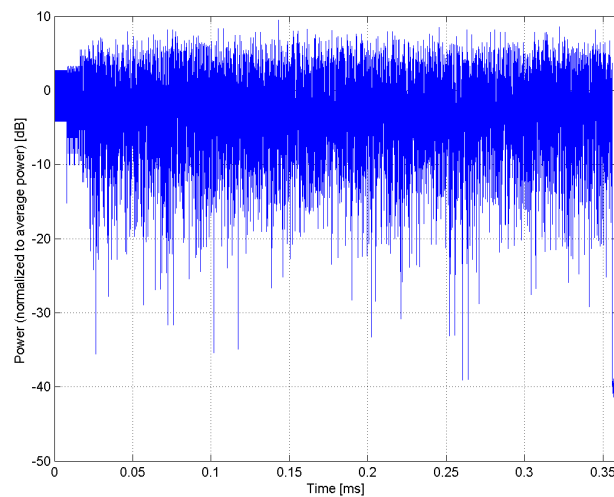
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)**

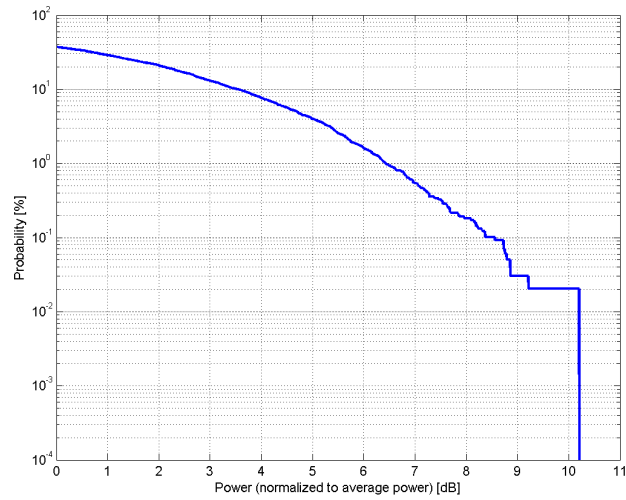
Group: WLAN
UID: 10568-AAA

PAR: ¹ **8.37 dB**
MIF: ² **-22.04 dB**

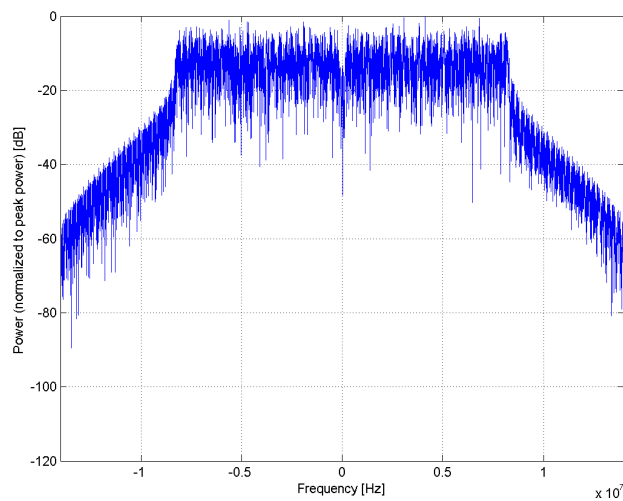
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 36Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

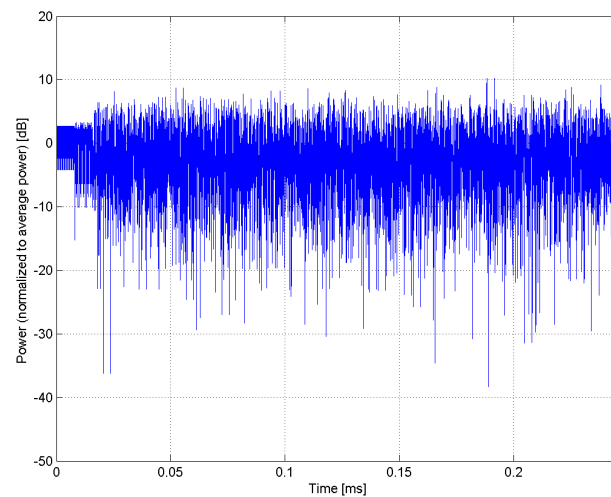
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)**

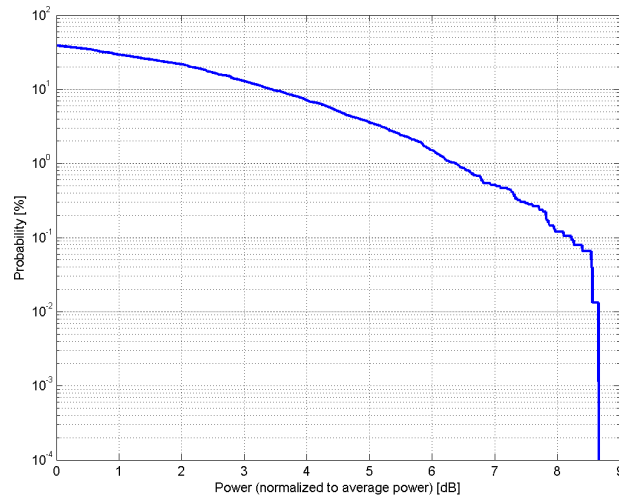
Group: WLAN
UID: 10569-AAA

PAR: ¹ **8.10 dB**
MIF: ² **-24.25 dB**

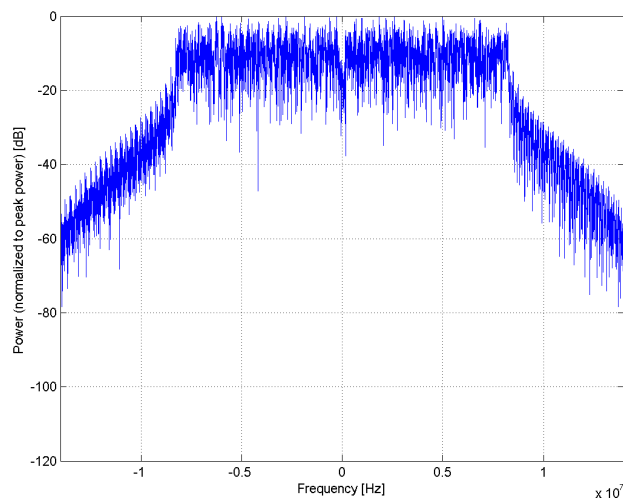
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 48Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

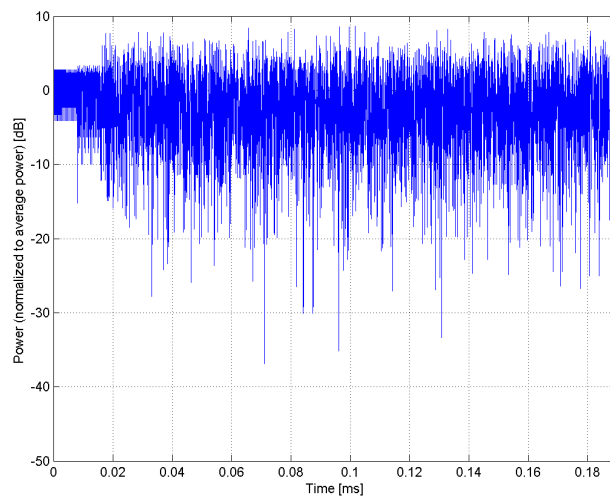
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)**

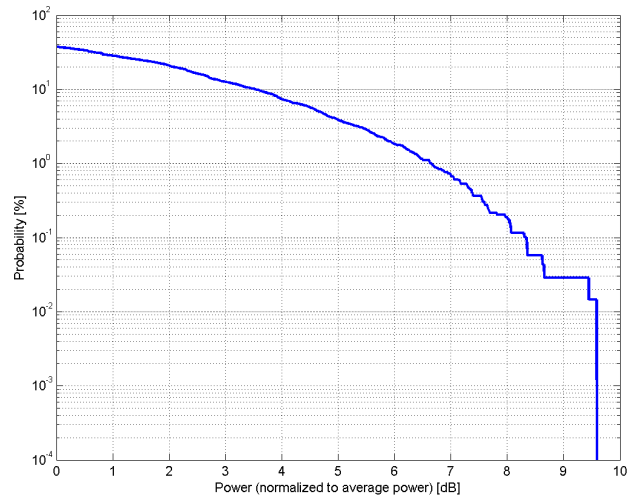
Group: WLAN
UID: 10570-AAA

PAR: ¹ **8.30 dB**
MIF: ² **-29.31 dB**

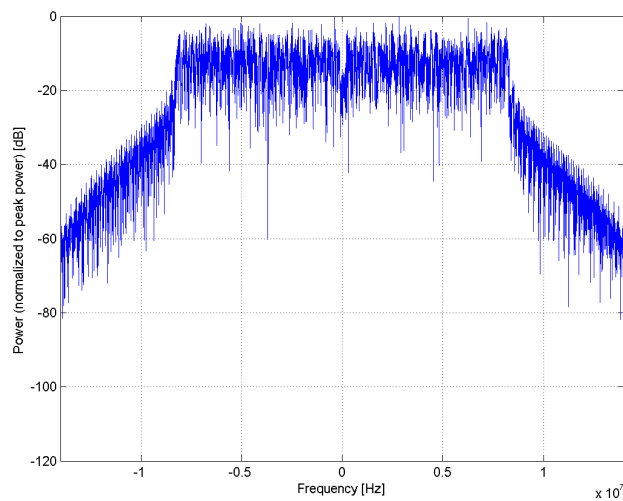
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 54Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

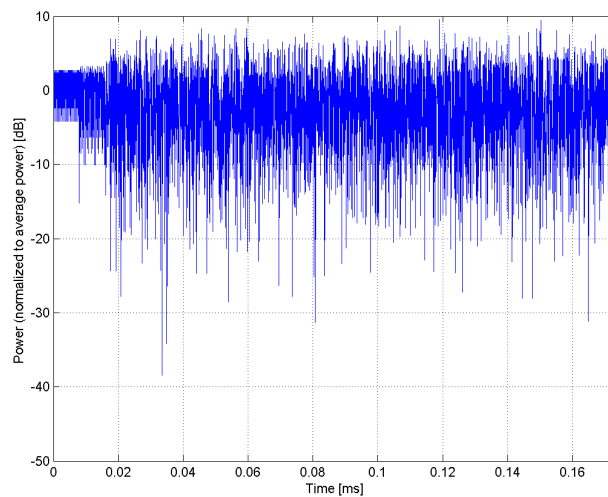
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)**

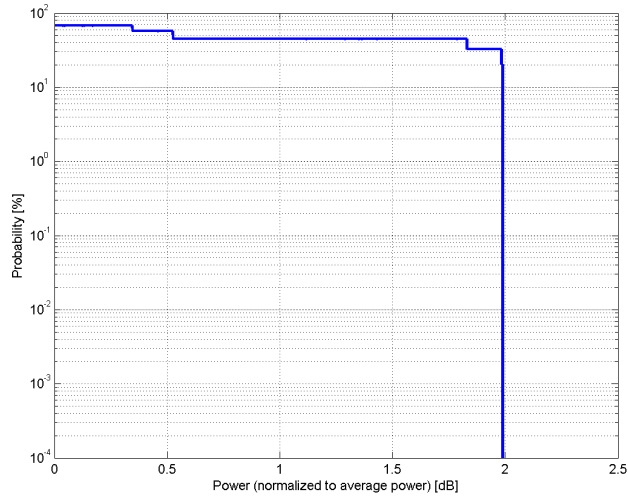
Group: WLAN
UID: 10571-AAA

PAR: ¹ **1.99 dB**
MIF: ² **-5.62 dB**

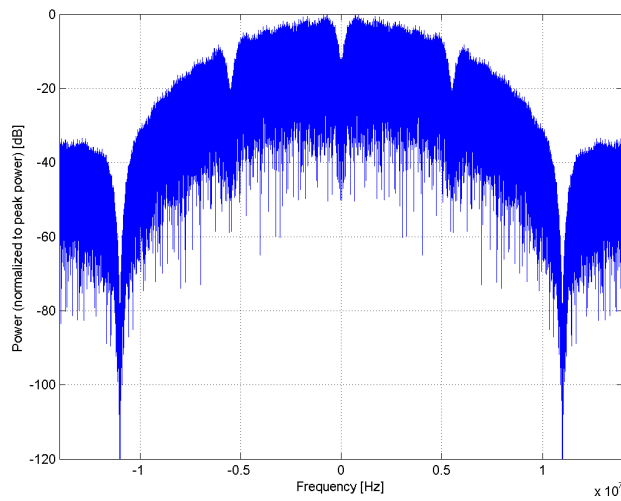
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 1Mbps
Bandwidth: 20.0 MHz
Integration Time: 9.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

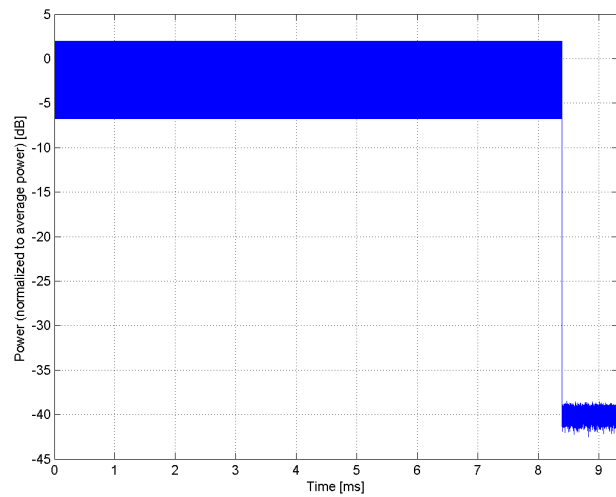
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



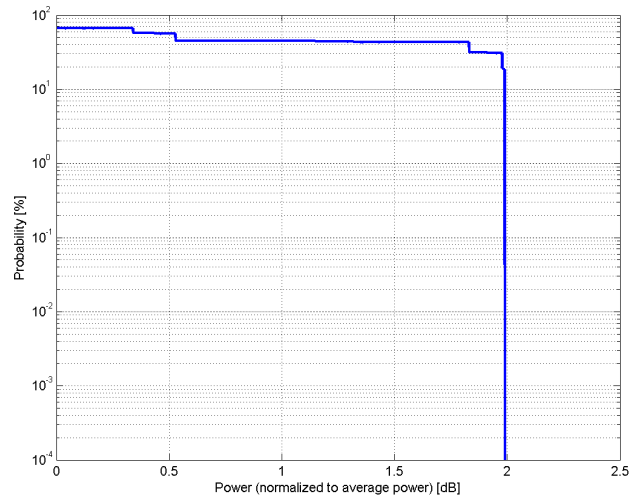
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

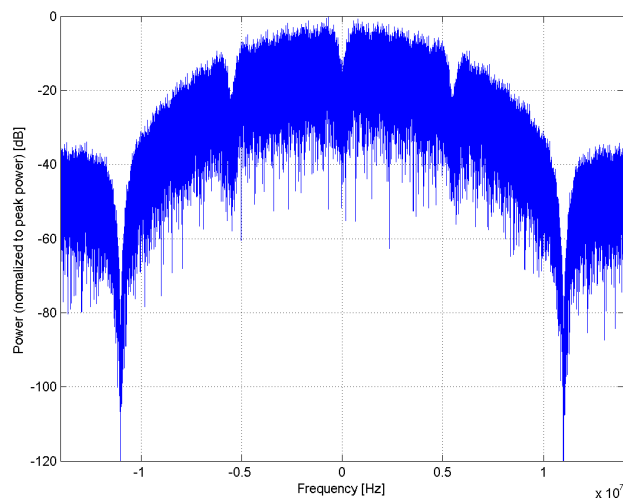
| | |
|-------------------------|--|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) |
| Group: | WLAN |
| UID: | 10572-AAA |
| PAR: ¹ | 1.99 dB |
| MIF: ² | -5.53 dB |
| Standard Reference: | IEEE 802.11-2012 |
| Category: | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Duty cycle: 90 % PSDU length: 1024 bytes Preamble type: long Data Rate: 2Mbps |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 4.8 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

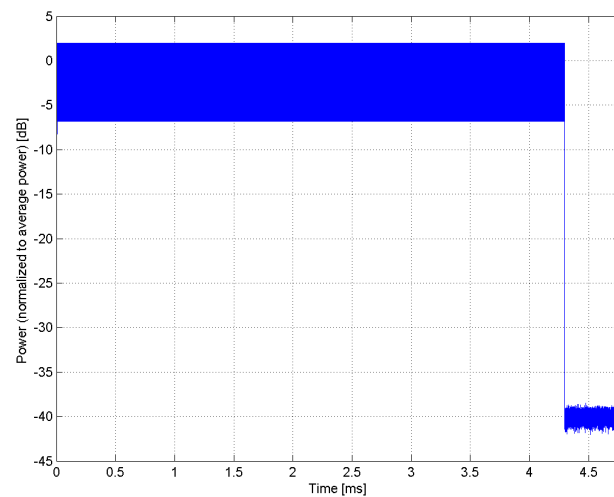
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



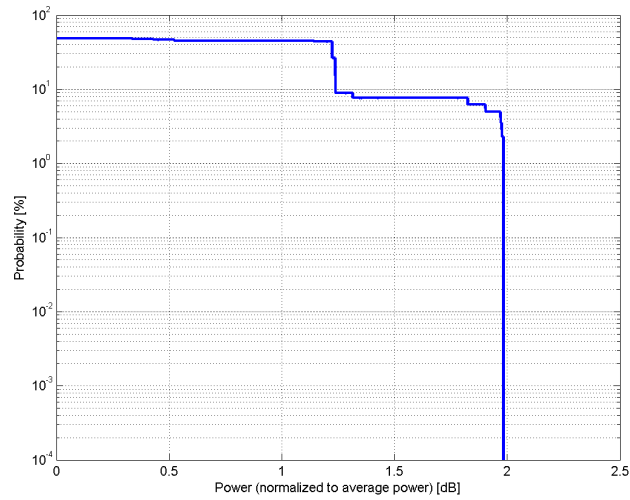
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

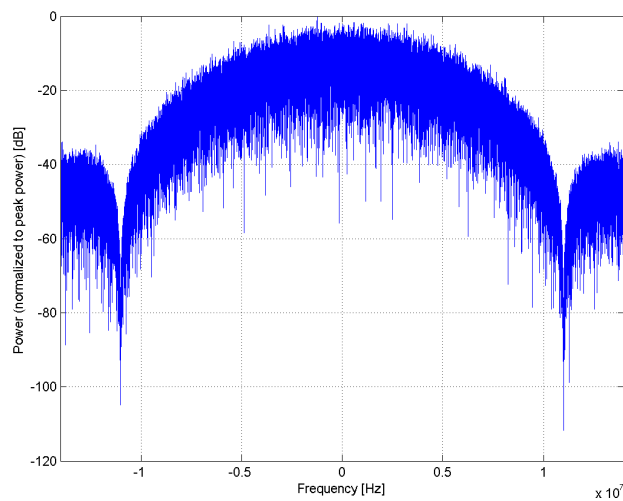
| | |
|-------------------------|--|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) |
| Group: | WLAN |
| UID: | 10573-AAA |
| PAR: ¹ | 1.98 dB |
| MIF: ² | -5.73 dB |
| Standard Reference: | IEEE 802.11-2012 |
| Category: | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Duty cycle: 90 % PSDU length: 1024 bytes Preamble type: long Data Rate: 5.5Mbps |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.9 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

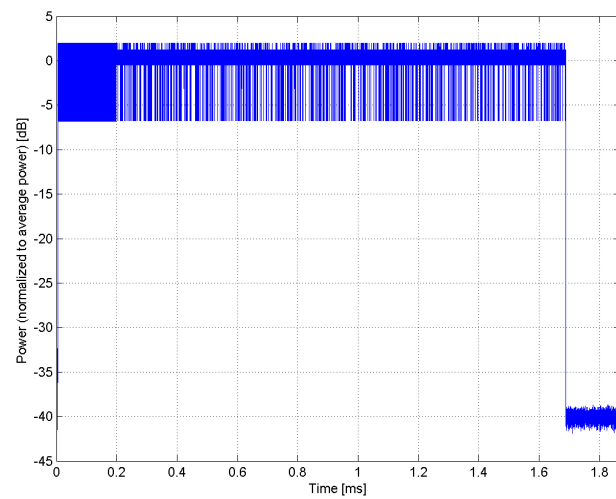
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



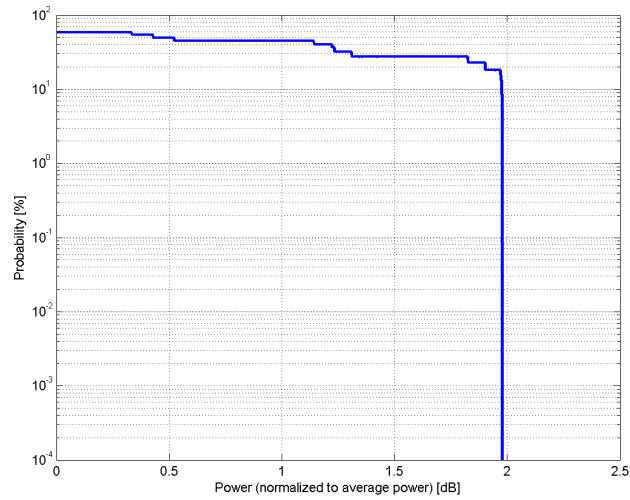
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

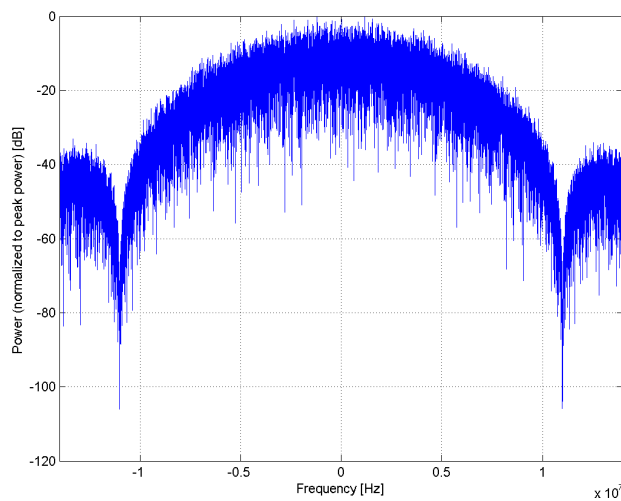
| | |
|-------------------------|---|
| Name: | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) |
| Group: | WLAN |
| UID: | 10574-AAA |
| PAR: ¹ | 1.98 dB |
| MIF: ² | -6.42 dB |
| Standard Reference: | IEEE 802.11-2012 |
| Category: | FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 Random amplitude modulation |
| Modulation: | DQPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0-2484.0 MHz, 20230) |
| Detailed Specification: | Duty cycle: 90 % PSDU length: 1024 bytes Preamble type: long Data Rate: 11Mbps |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

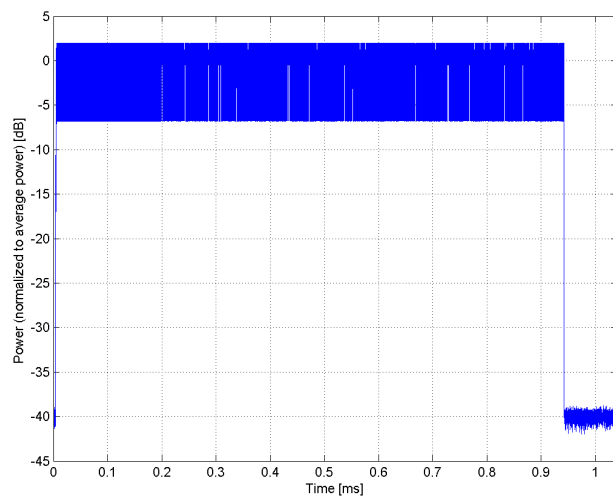
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)**

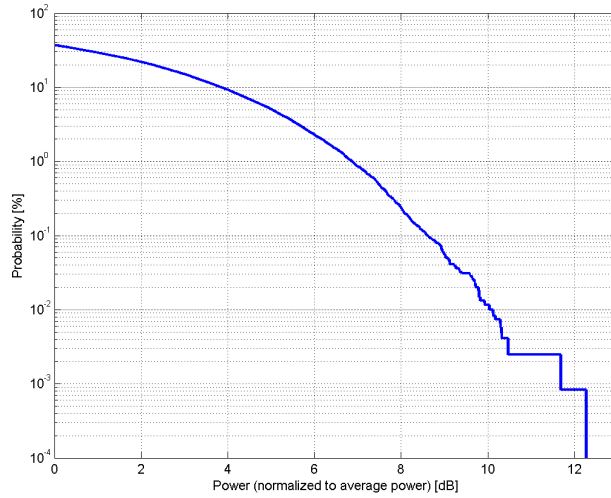
Group: WLAN
UID: 10575-AAA

PAR: ¹ **8.59 dB**
MIF: ² **-6.10 dB**

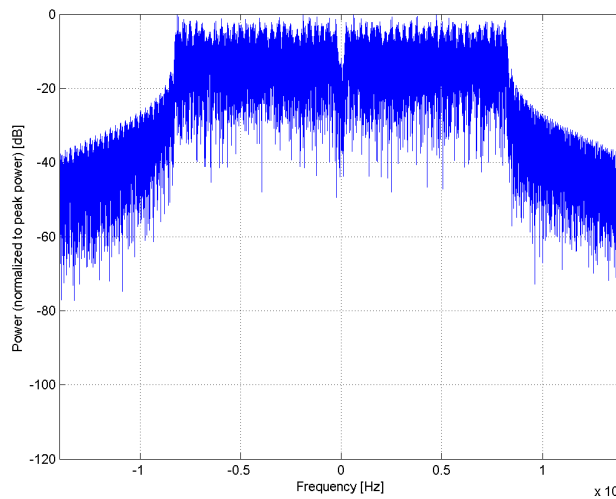
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 6Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

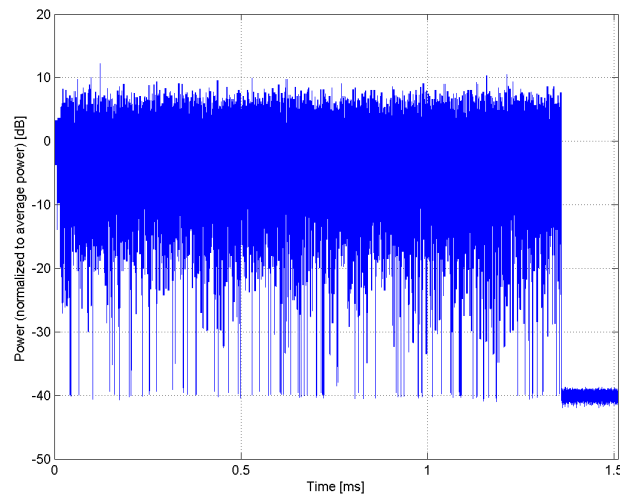
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)**

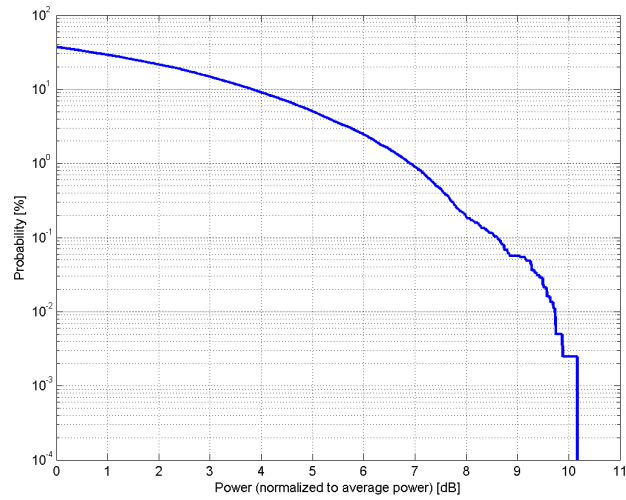
Group: WLAN
UID: 10576-AAA

PAR: ¹ **8.60 dB**
MIF: ² **-6.64 dB**

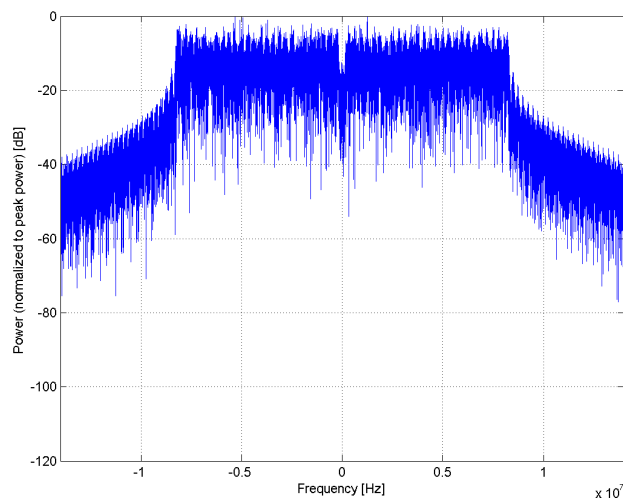
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 9Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

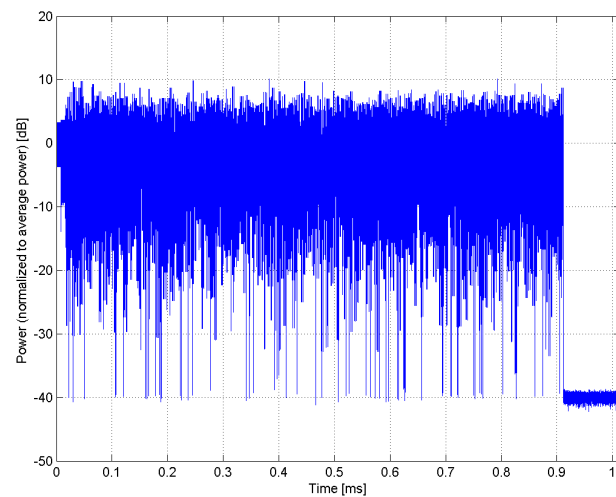
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)**

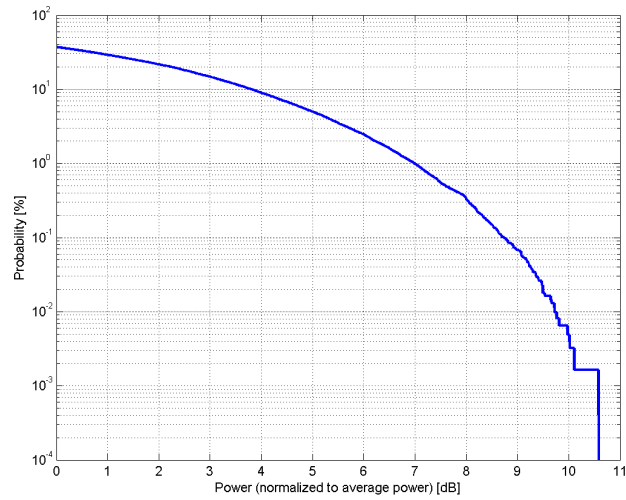
Group: WLAN
UID: 10577-AAA

PAR: ¹ **8.70 dB**
MIF: ² **-7.19 dB**

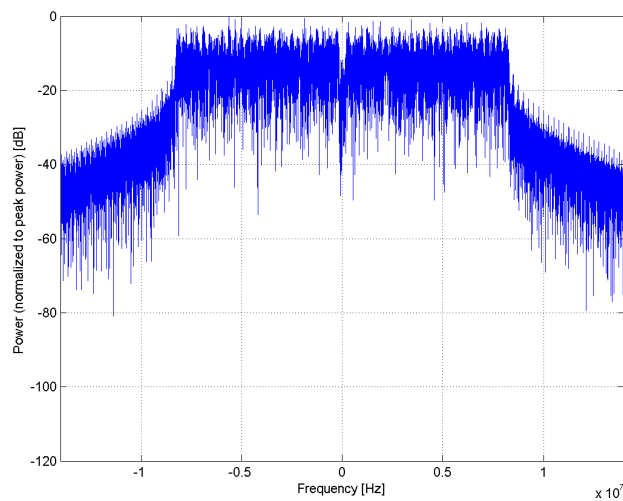
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 12Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

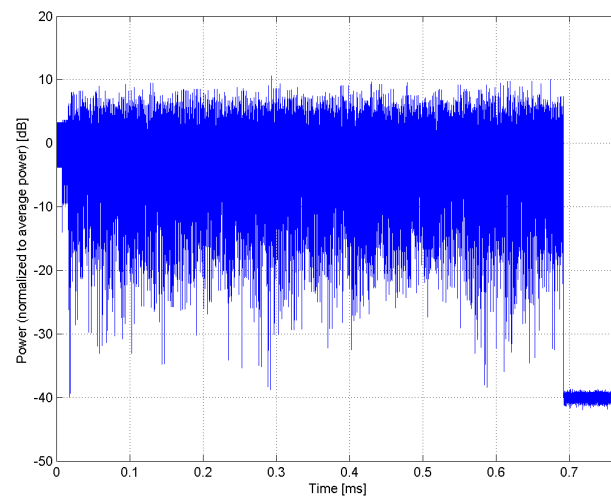
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)**

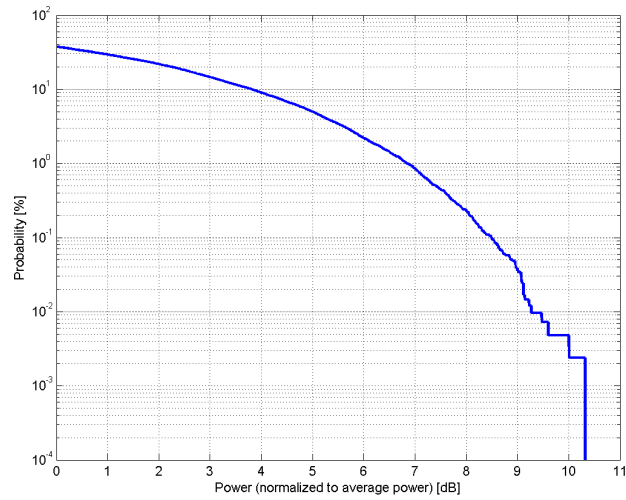
Group: WLAN
UID: 10578-AAA

PAR: ¹ **8.49 dB**
MIF: ² **-8.19 dB**

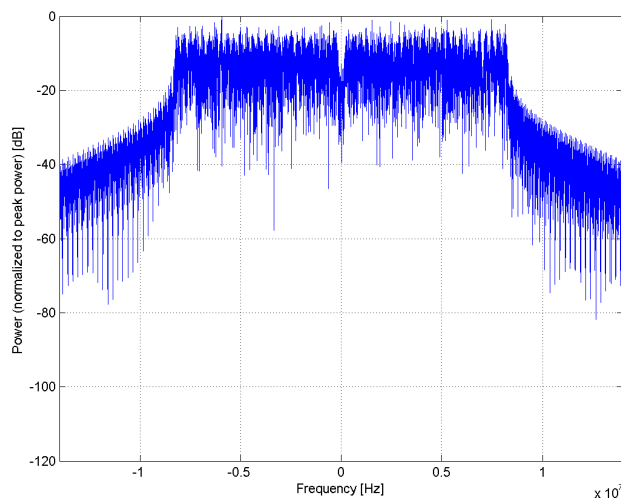
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 18Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

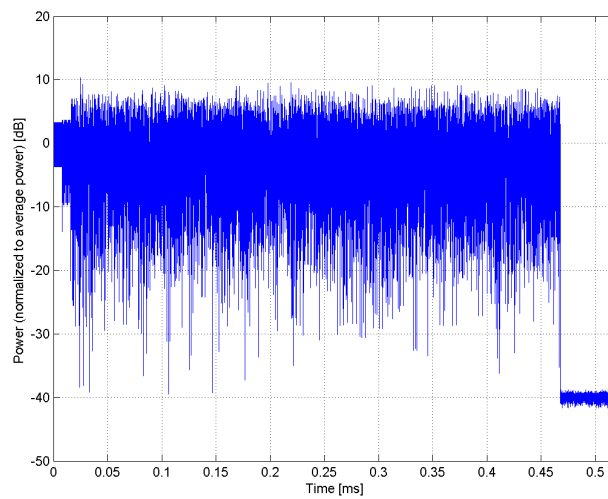
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)**

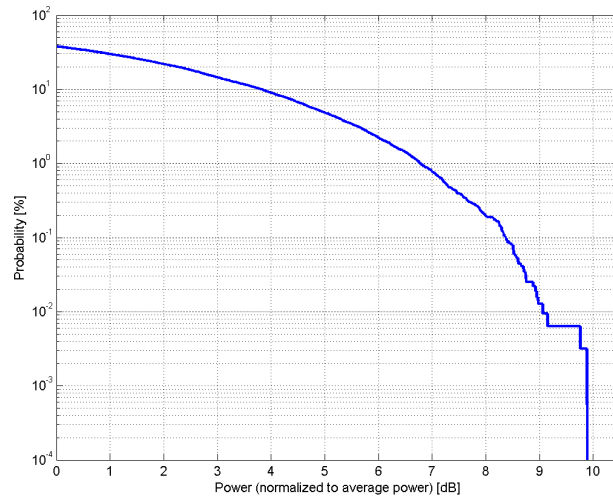
Group: WLAN
UID: 10579-AAA

PAR: ¹ **8.36 dB**
MIF: ² **-9.30 dB**

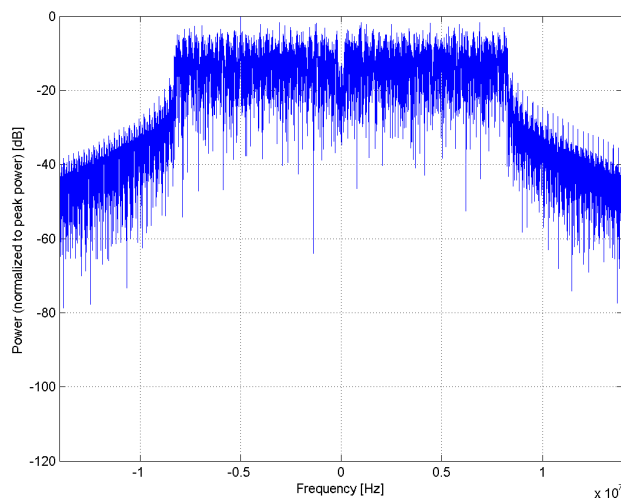
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 24Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

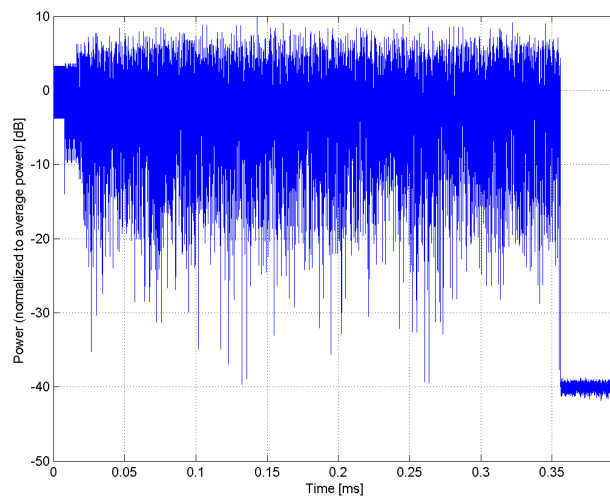
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)**

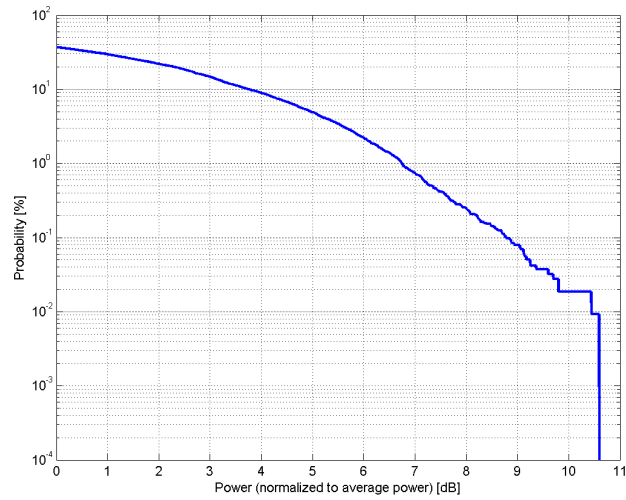
Group: WLAN
UID: 10580-AAA

PAR: ¹ **8.76 dB**
MIF: ² **-11.10 dB**

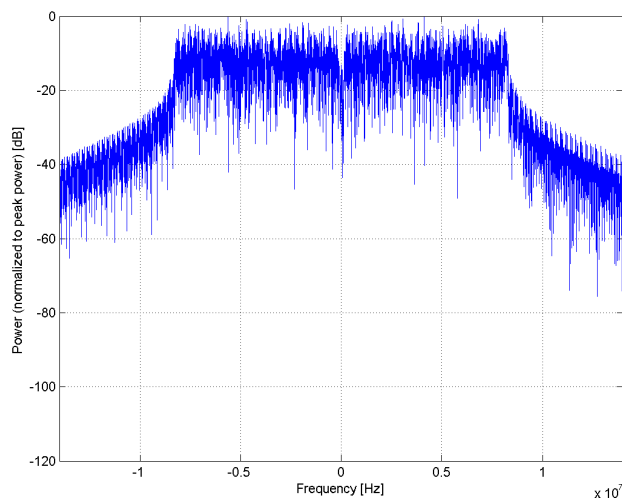
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 36Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

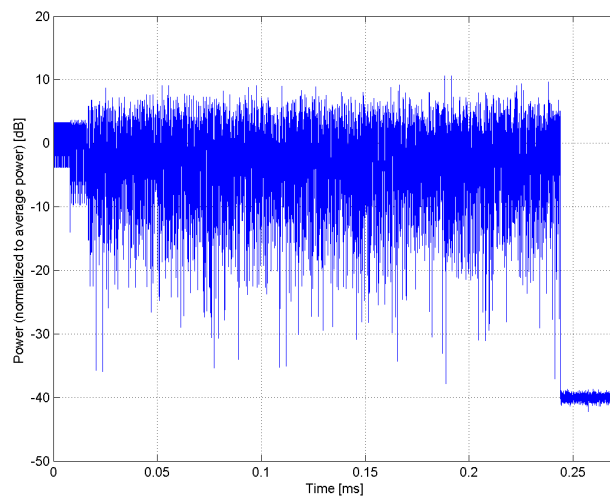
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)**

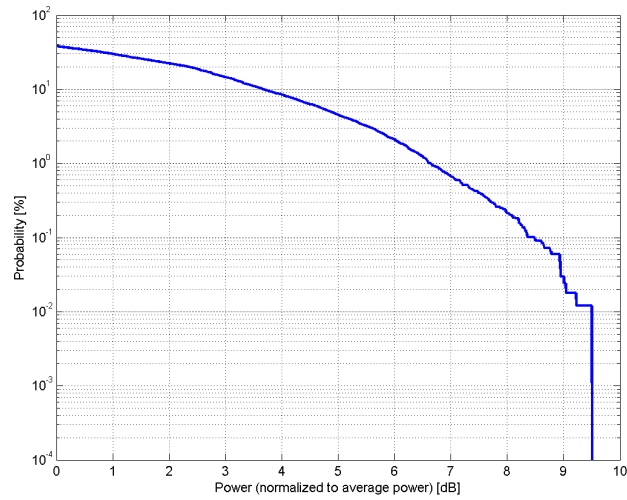
Group: WLAN
UID: 10581-AAA

PAR: ¹ **8.35 dB**
MIF: ² **-12.77 dB**

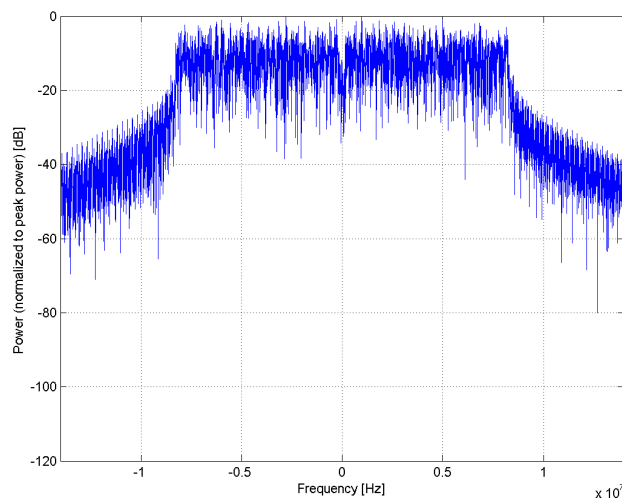
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 48Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

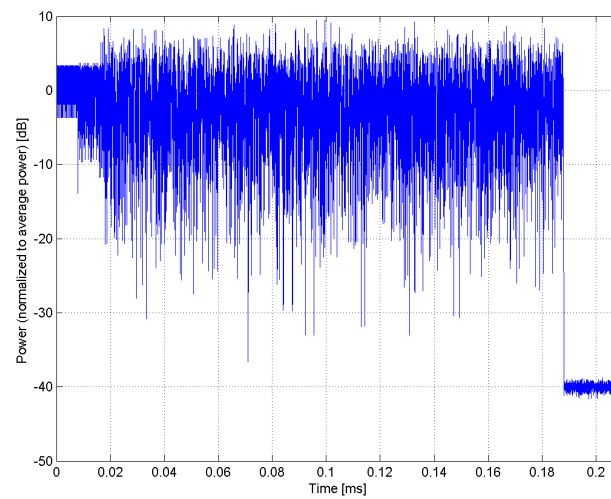
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)**

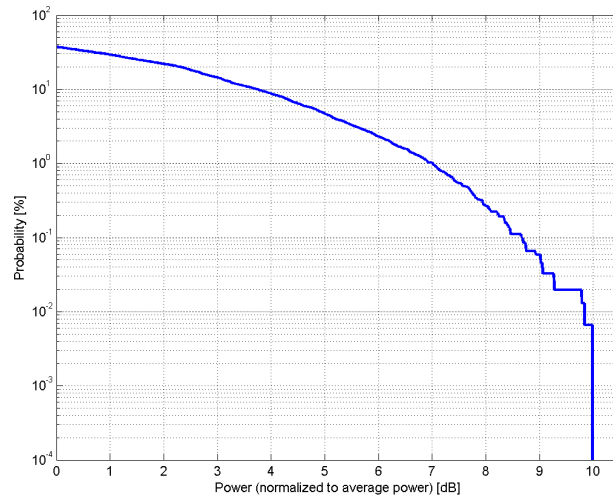
Group: WLAN
UID: 10582-AAA

PAR: ¹ **8.67 dB**
MIF: ² **-13.22 dB**

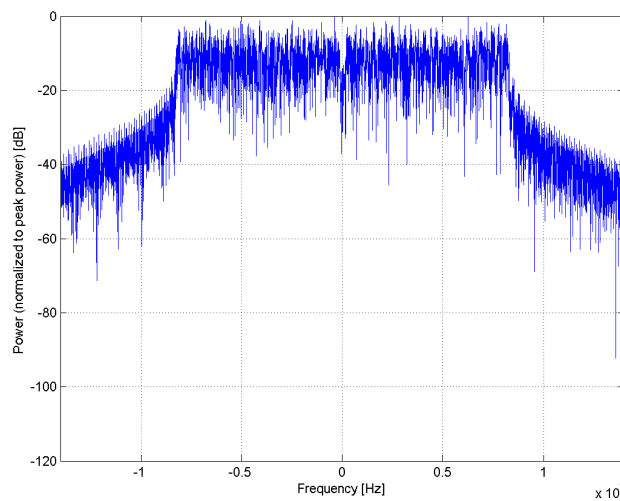
Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 90 %
PSDU length: 1000 bytes
Frame format: DSSS-OFDM
Data Rate: 54Mbps
Preamble type: long
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

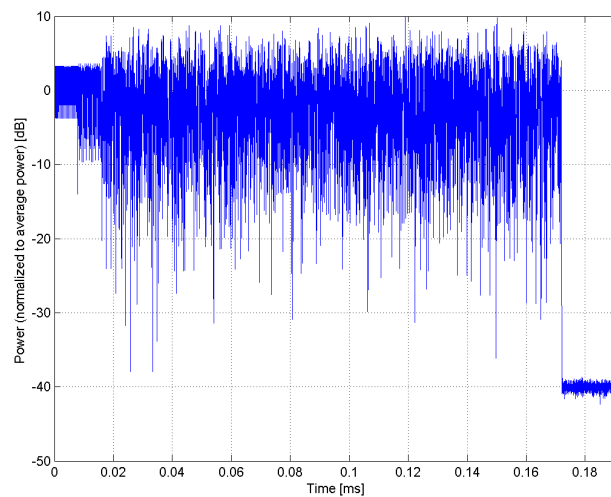
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10583-AAD

PAR: ¹ **8.59 dB**
MIF: ² **-6.10 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

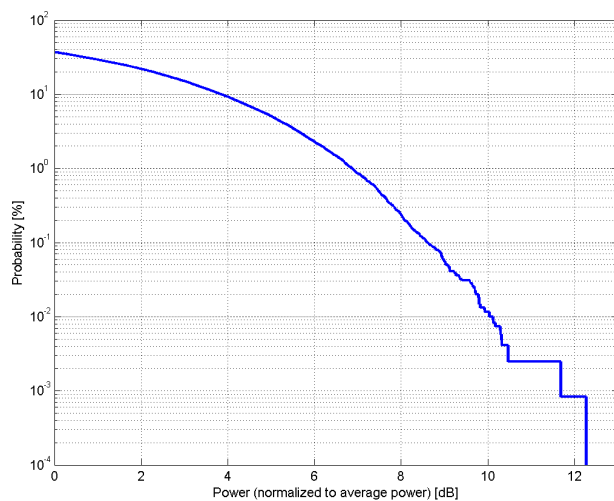
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 6Mbps

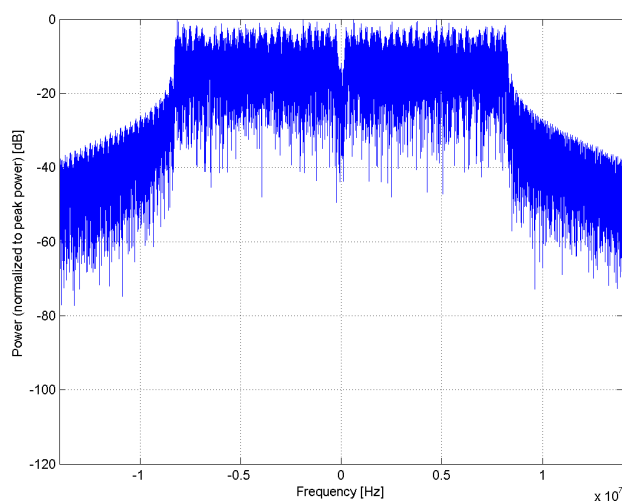
Bandwidth: 20.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

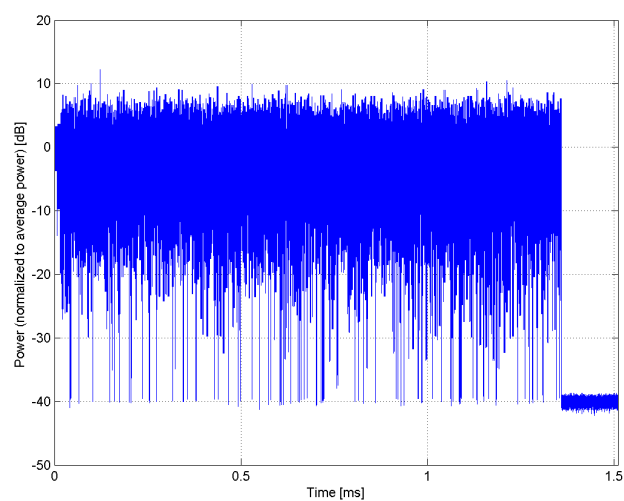
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10584-AAD

PAR: ¹ **8.60 dB**
MIF: ² **-6.64 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

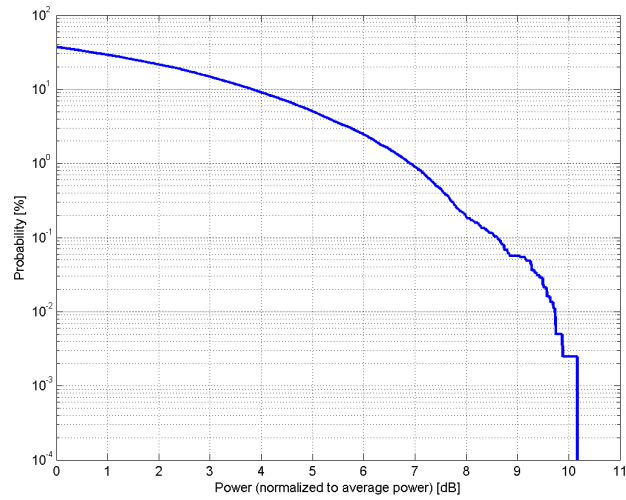
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 9Mbps

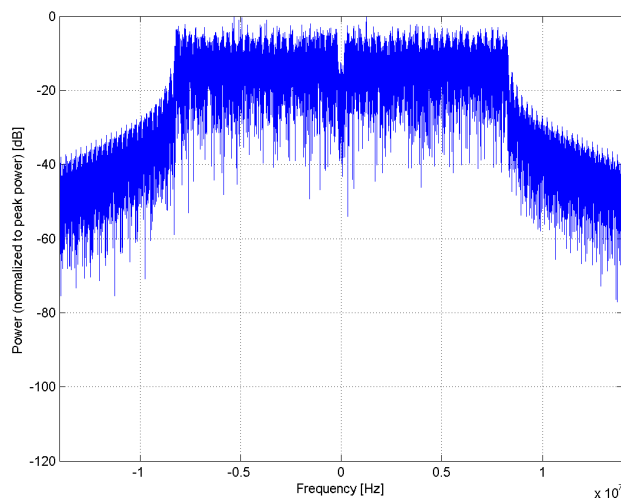
Bandwidth: 20.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

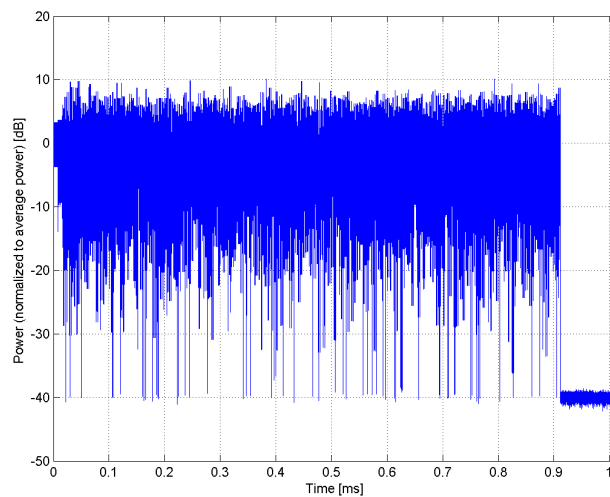
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



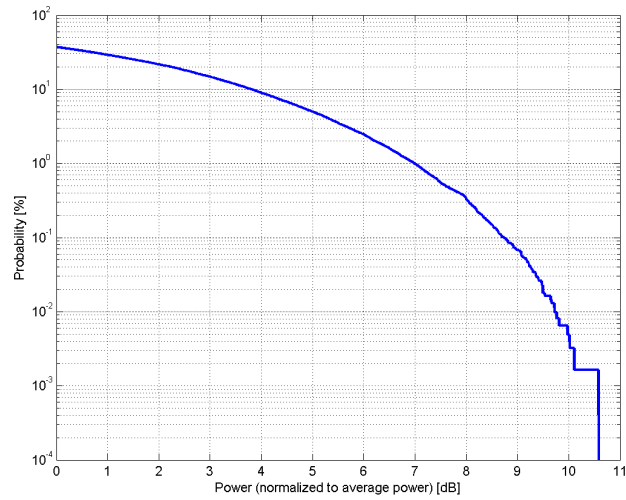
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

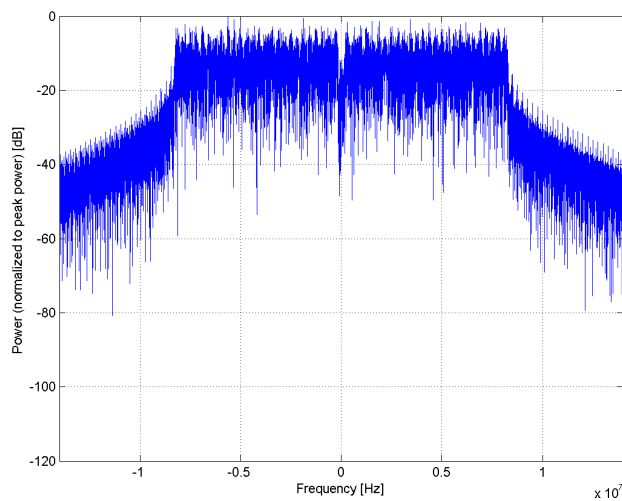
| | |
|-------------------------|---|
| Name: | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) |
| Group: | WLAN |
| UID: | 10585-AAD |
| PAR: ¹ | 8.70 dB |
| MIF: ² | -7.19 dB |
| Standard Reference: | IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Duty cycle: 90% PSDU length: 1000 bytes Data Rate: 12Mbps |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 0.8 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

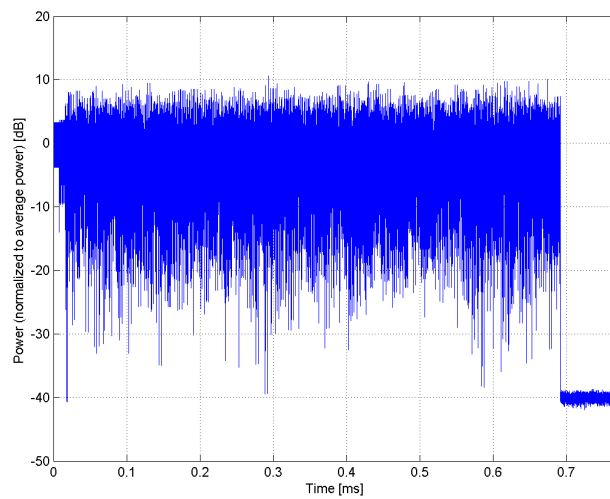
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10586-AAD

PAR: ¹ **8.49 dB**
MIF: ² **-8.19 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

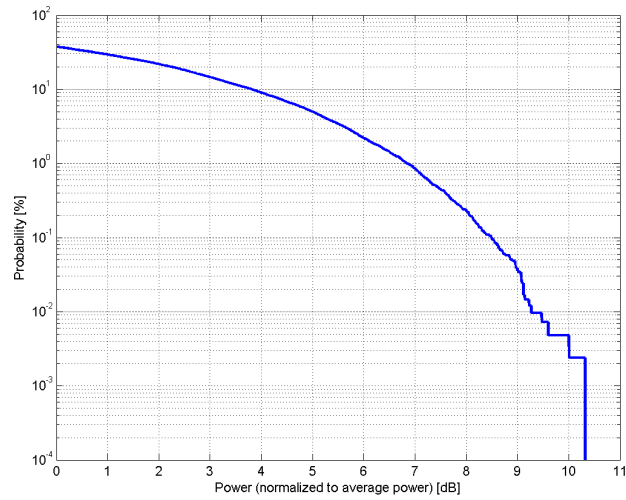
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 18Mbps

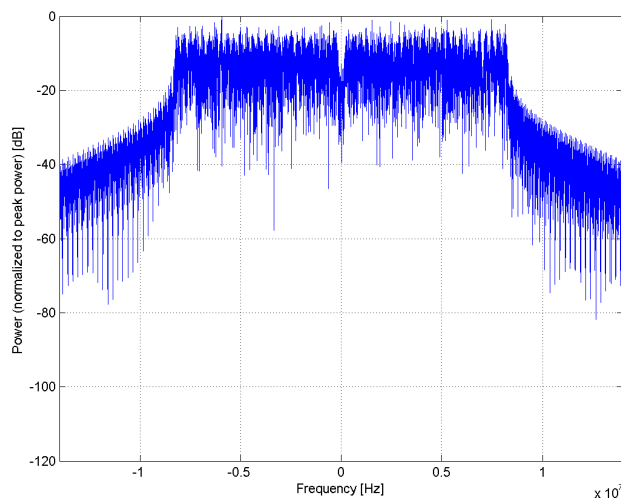
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

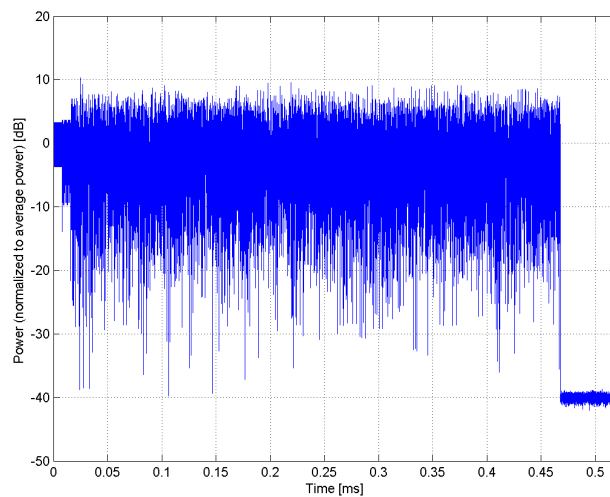
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10587-AAD

PAR: ¹ **8.36 dB**
MIF: ² **-9.30 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

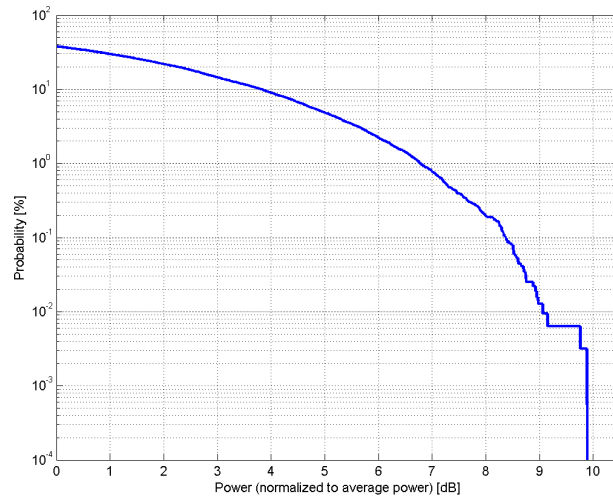
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 24Mbps

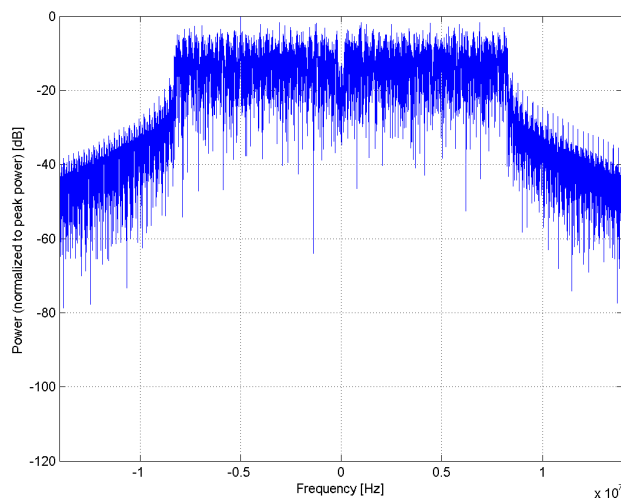
Bandwidth: 20.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

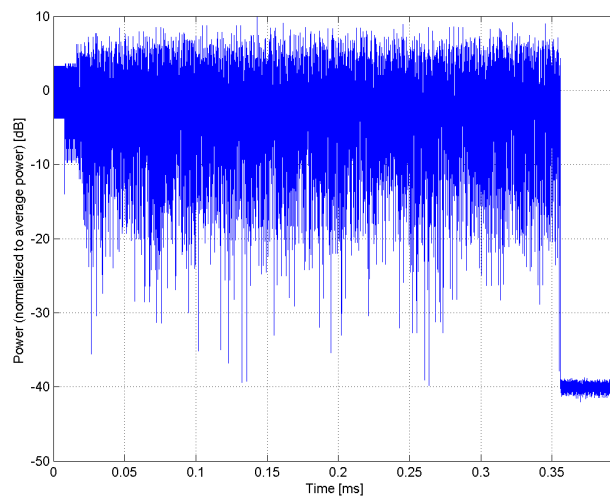
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



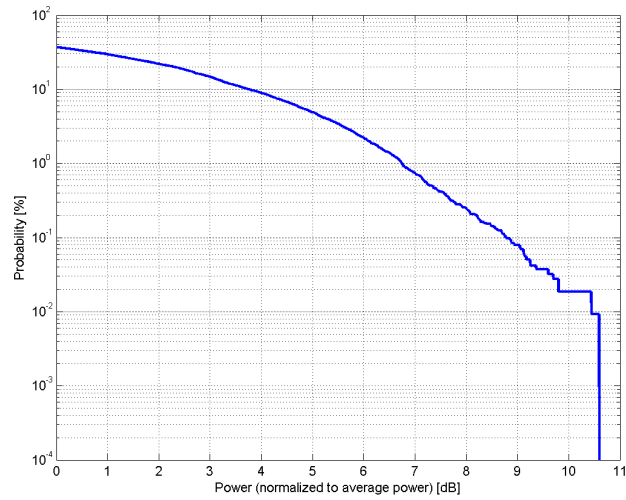
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

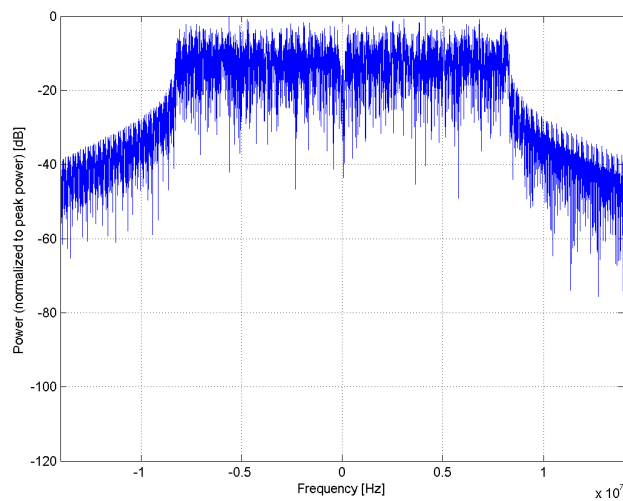
| | |
|-------------------------|---|
| Name: | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) |
| Group: | WLAN |
| UID: | 10588-AAD |
| PAR: ¹ | 8.76 dB |
| MIF: ² | -11.10 dB |
| Standard Reference: | IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01 |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Duty cycle: 90% PSDU length: 1000 bytes Data Rate: 36Mbps |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 0.3 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

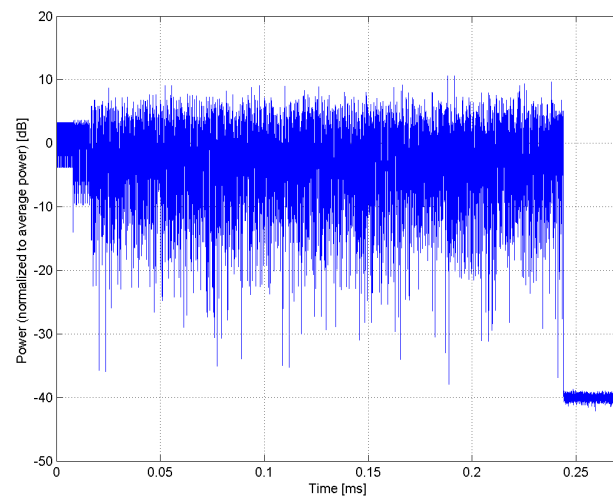
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10589-AAD

PAR: ¹ **8.35 dB**
MIF: ² **-12.77 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

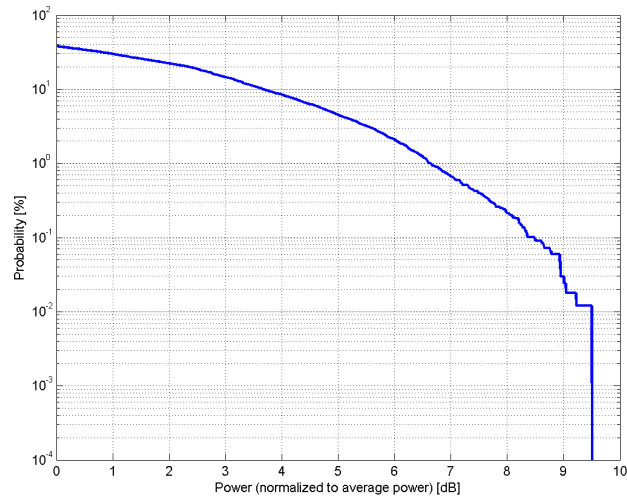
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 48Mbps

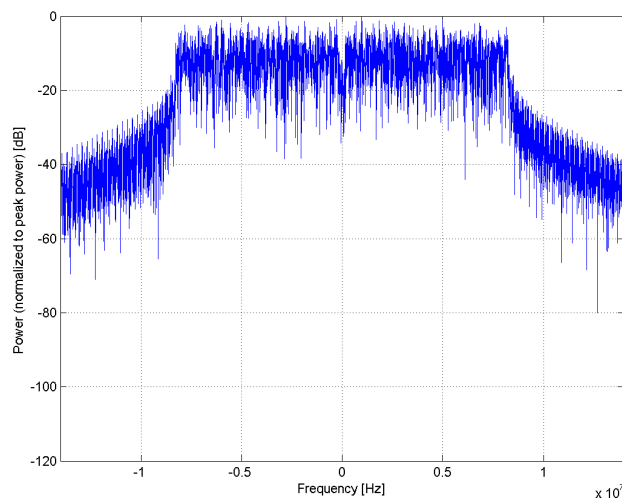
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

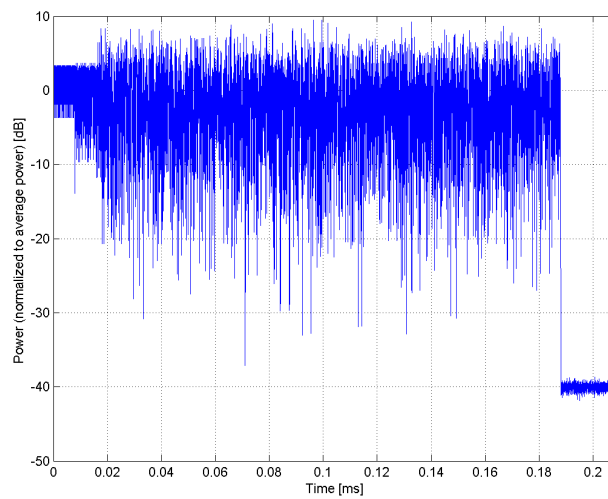
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)**

Group: WLAN
UID: 10590-AAD

PAR: ¹ **8.67 dB**
MIF: ² **-13.22 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

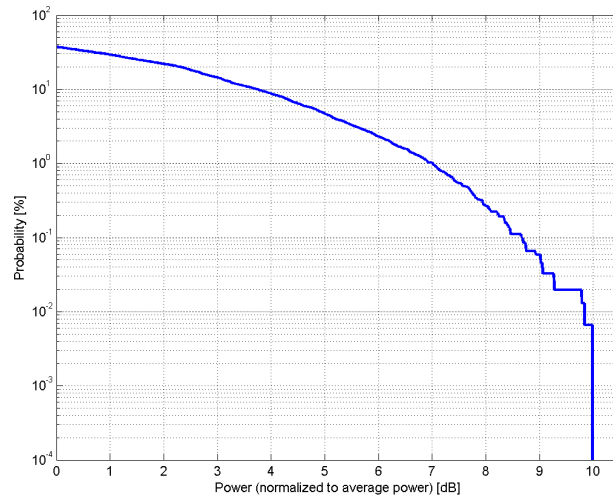
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
PSDU length: 1000 bytes
Data Rate: 54Mbps

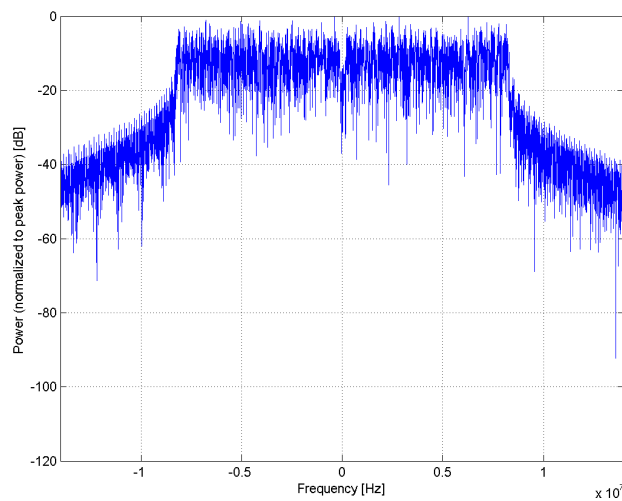
Bandwidth: 20.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

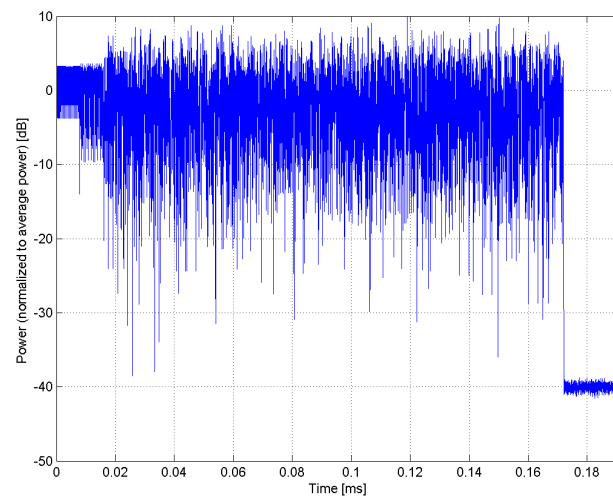
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10591-AAD

PAR: ¹ **8.63 dB**
MIF: ² **-5.59 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

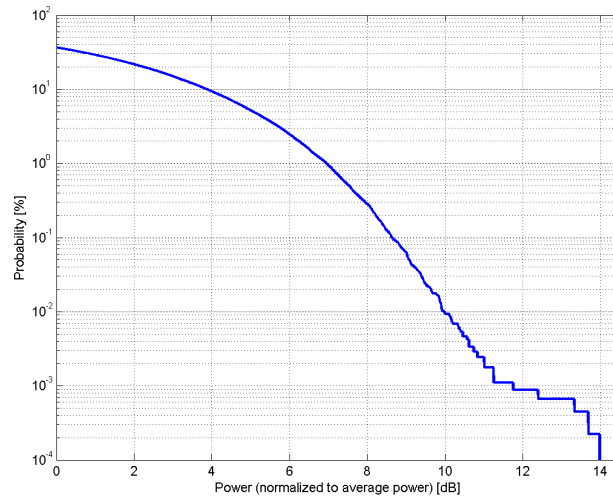
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 0
Guard interval: long

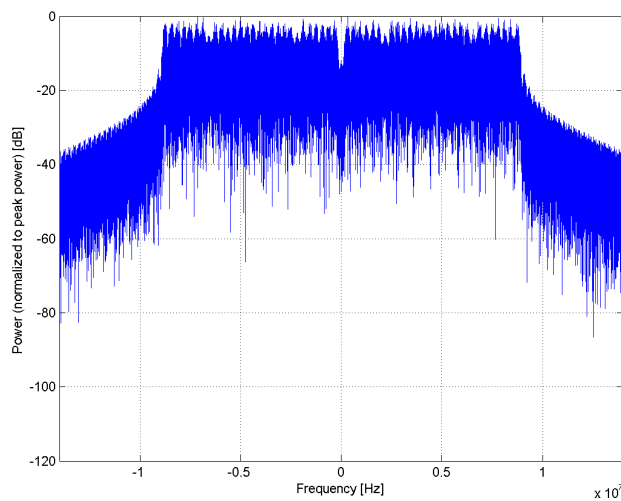
Bandwidth: 20.0 MHz
Integration Time: 5.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

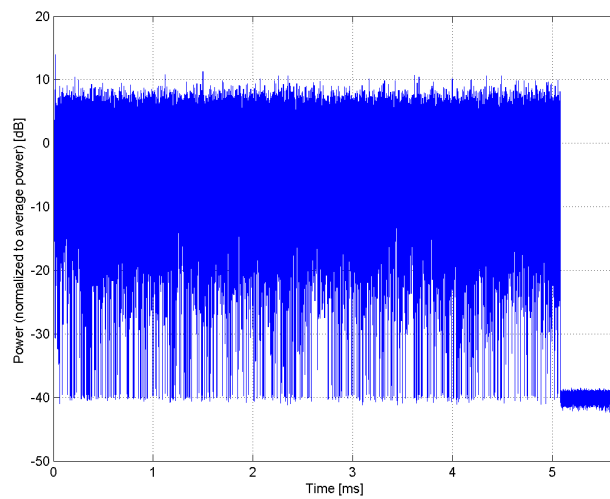
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10592-AAD

PAR: ¹ **8.79 dB**
MIF: ² **-5.61 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

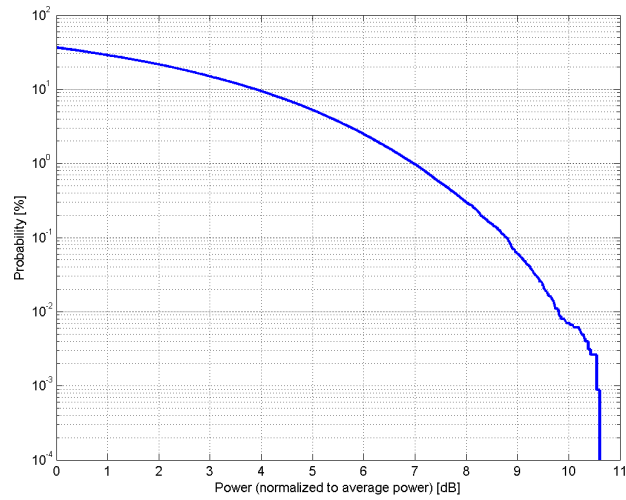
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 1
Guard interval: long

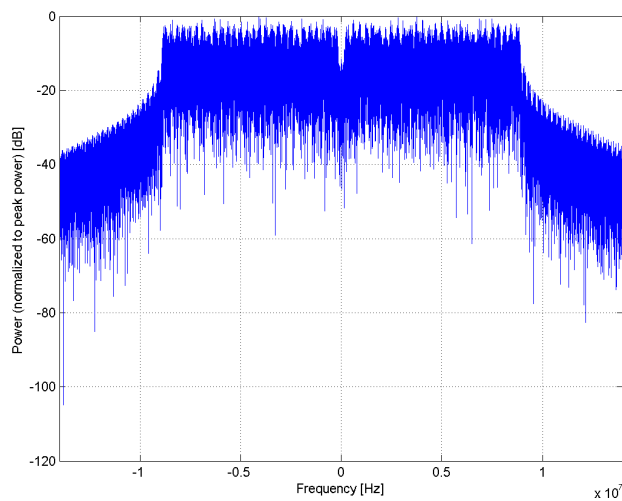
Bandwidth: 20.0 MHz
Integration Time: 2.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

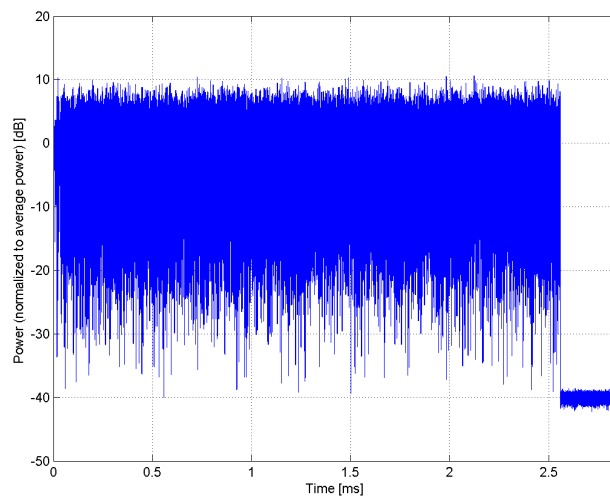
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10593-AAD

PAR: ¹ **8.64 dB**
MIF: ² **-5.84 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

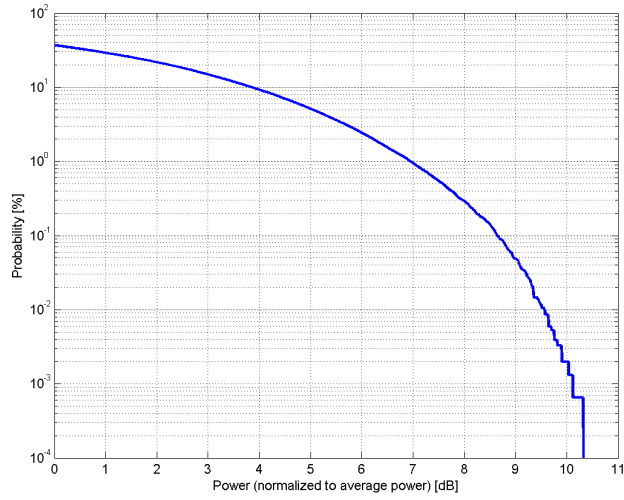
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 2
Guard interval: long

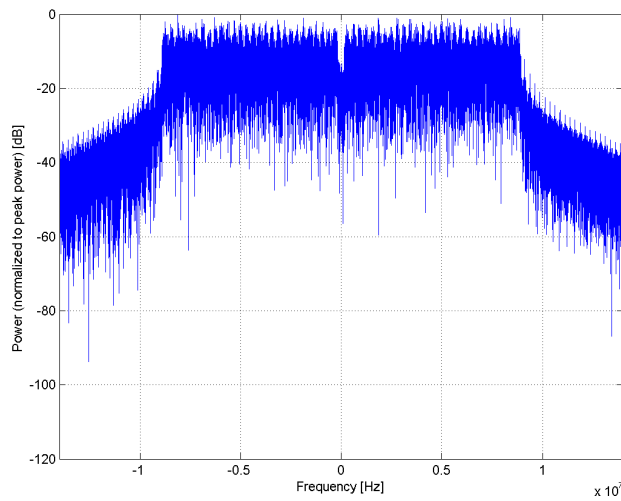
Bandwidth: 20.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

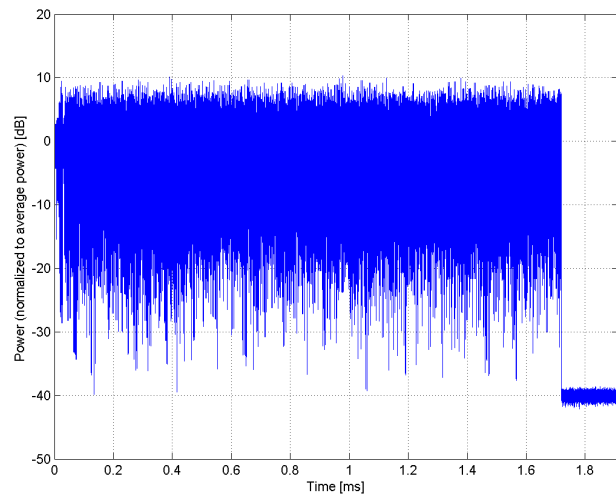
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10594-AAD

PAR: ¹ **8.74 dB**
MIF: ² **-6.17 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

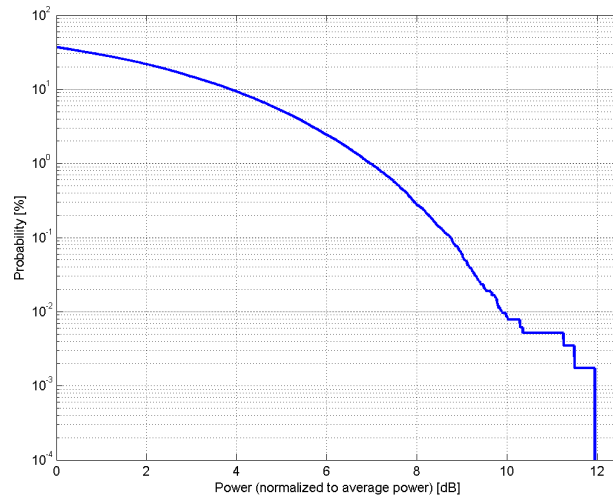
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 3
Guard interval: long

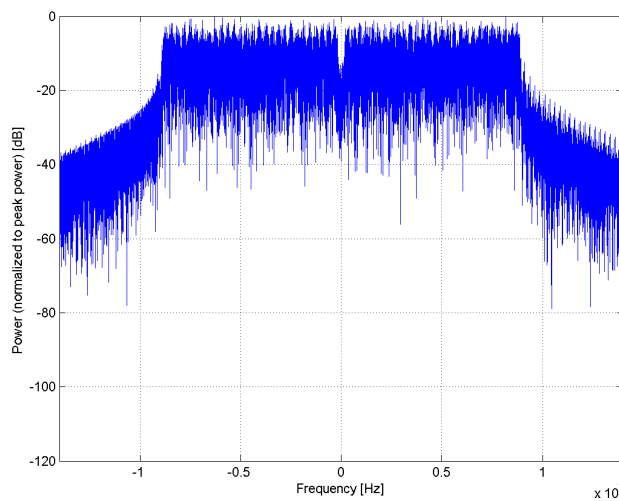
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

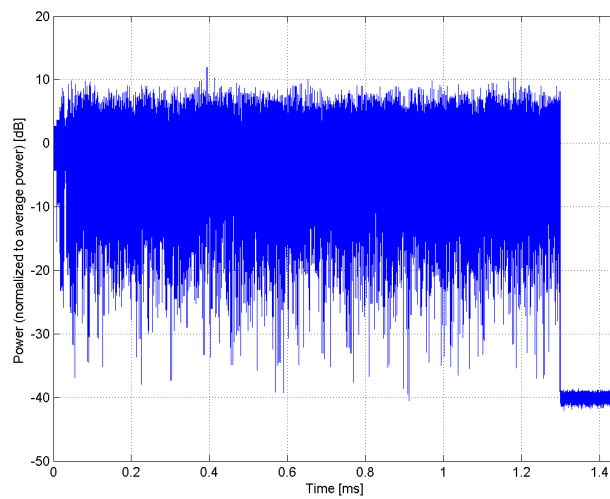
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10595-AAD

PAR: ¹ **8.74 dB**
MIF: ² **-6.72 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

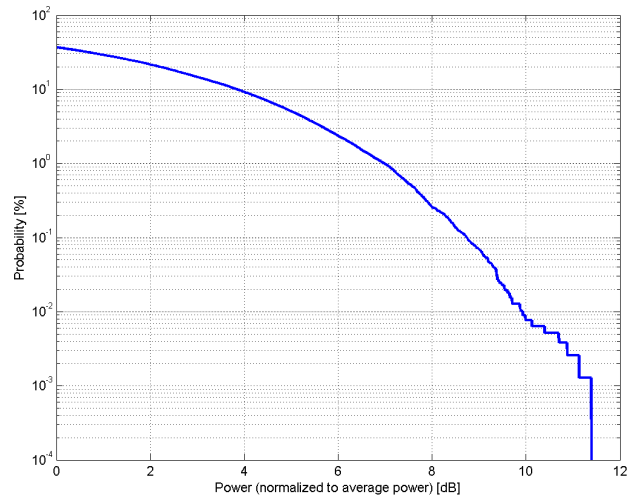
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 4
Guard interval: long

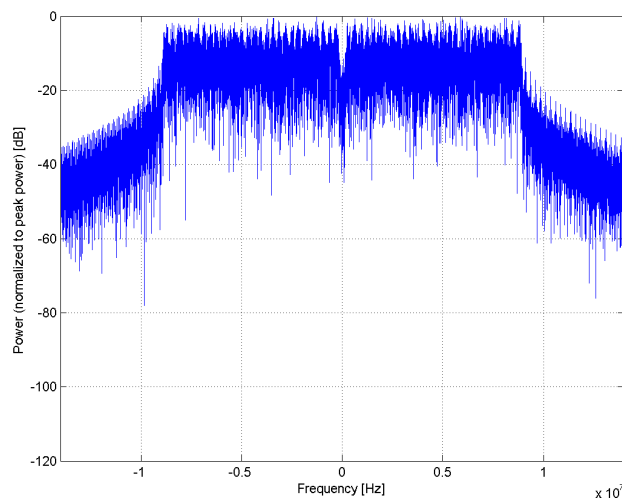
Bandwidth: 20.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

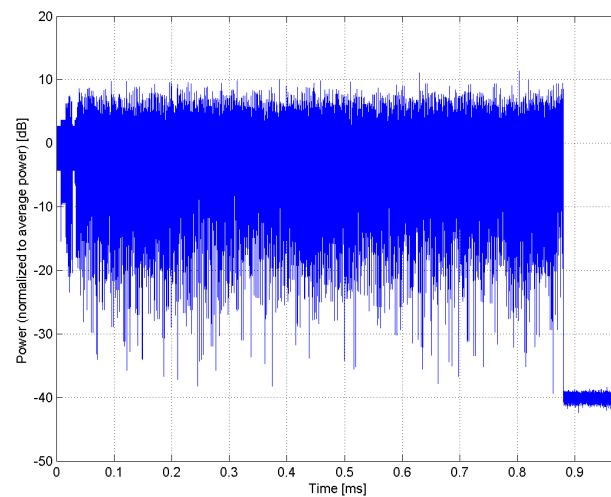
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10596-AAD

PAR: ¹ **8.71 dB**
MIF: ² **-7.25 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

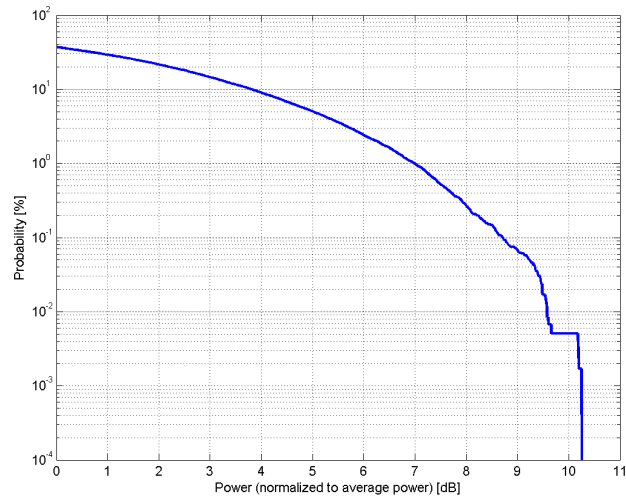
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 5
Guard interval: long

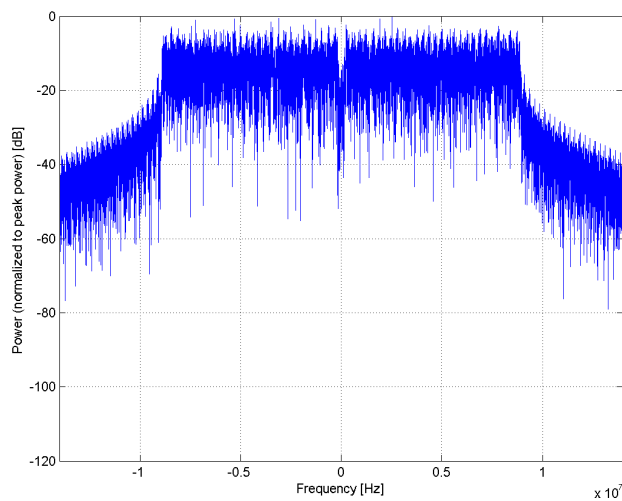
Bandwidth: 20.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

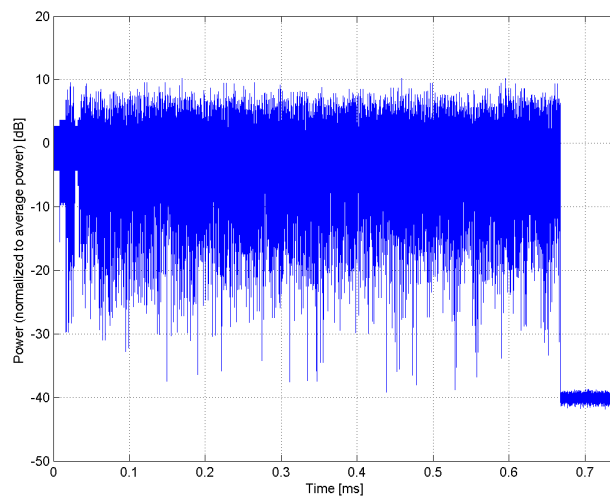
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10597-AAD

PAR: ¹ **8.72 dB**
MIF: ² **-7.54 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

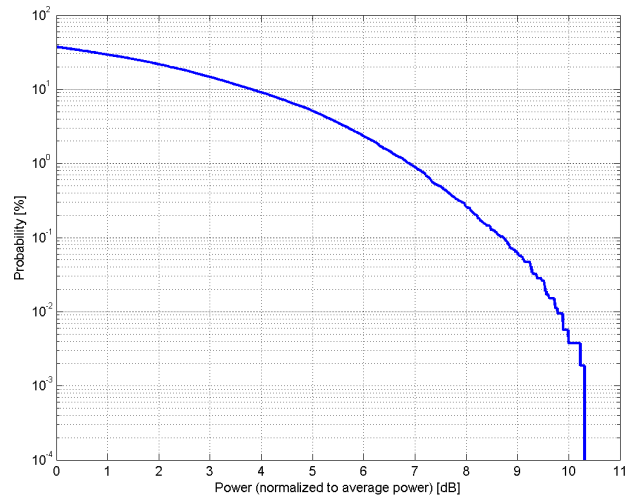
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 6
Guard interval: long

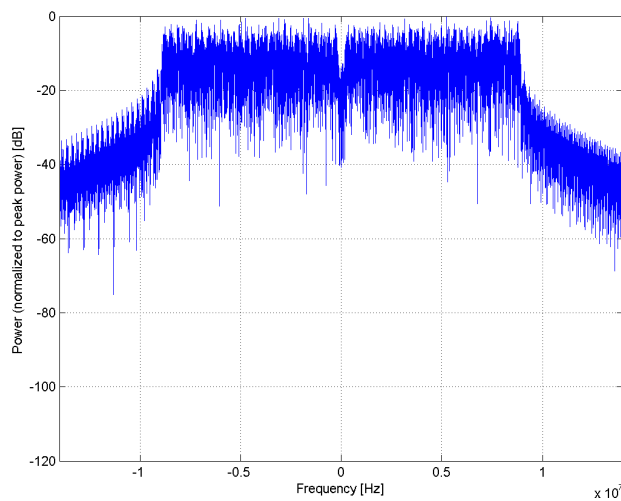
Bandwidth: 20.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

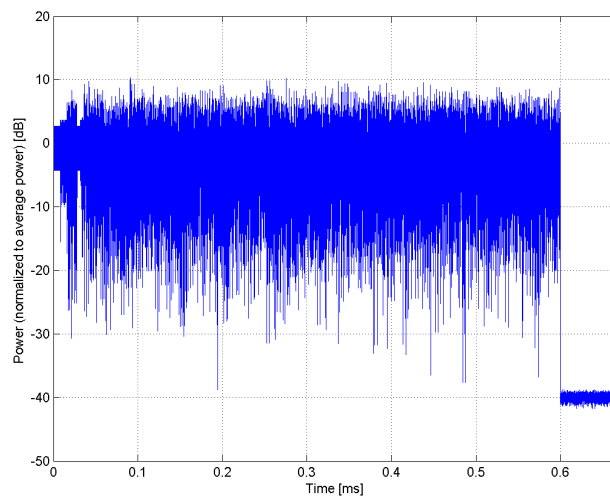
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10598-AAD

PAR: ¹ **8.50 dB**
MIF: ² **-7.86 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

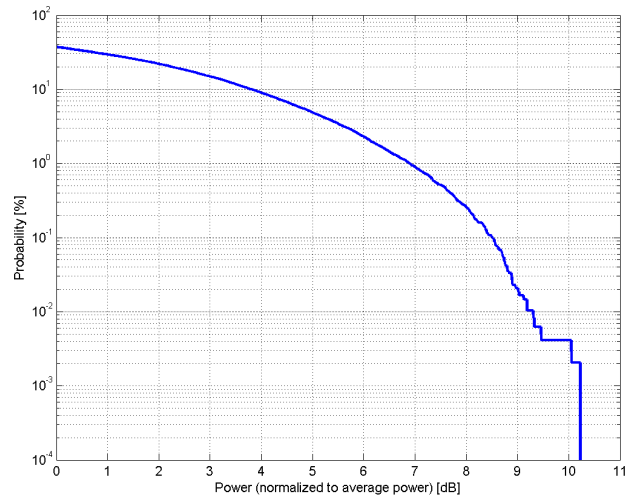
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 7
Guard interval: long

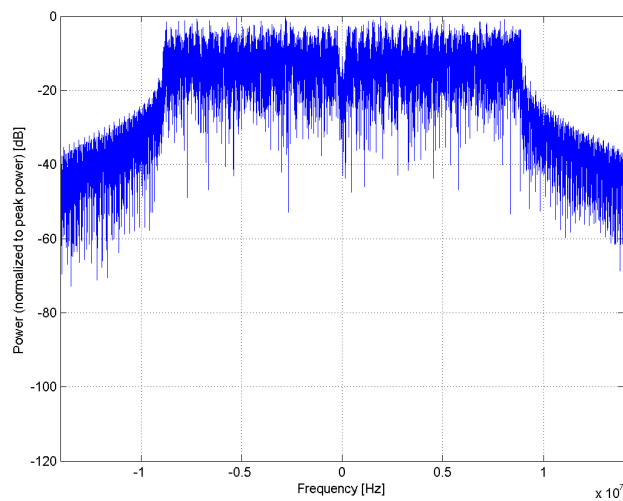
Bandwidth: 20.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

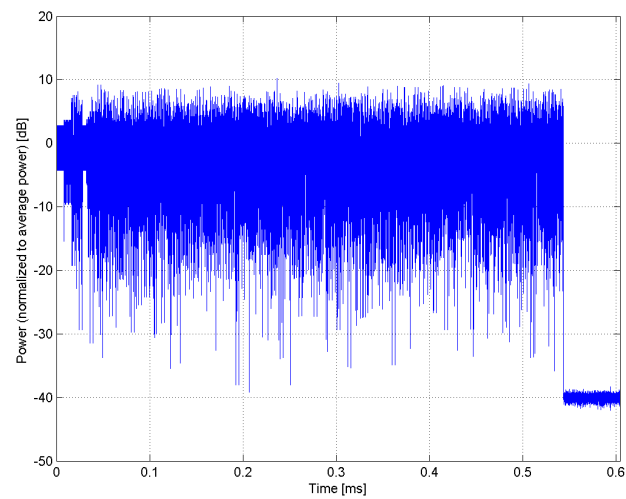
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10599-AAD

PAR: ¹ **8.79 dB**
MIF: ² **-5.59 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

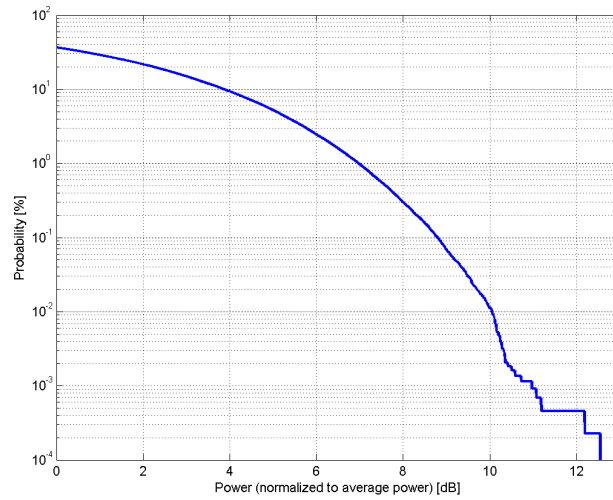
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 0
Guard interval: long

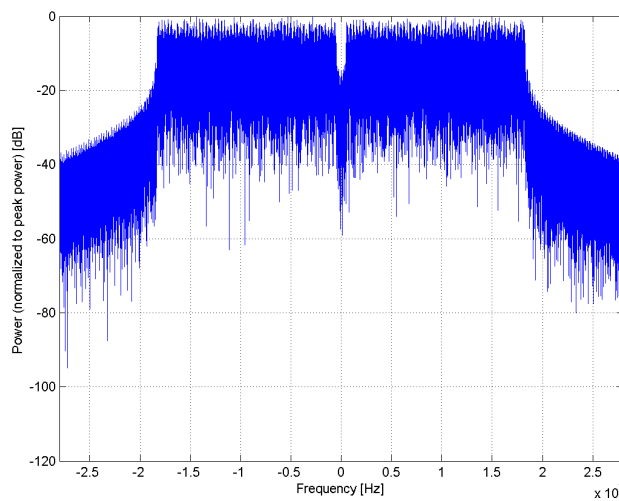
Bandwidth: 40.0 MHz
Integration Time: 2.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

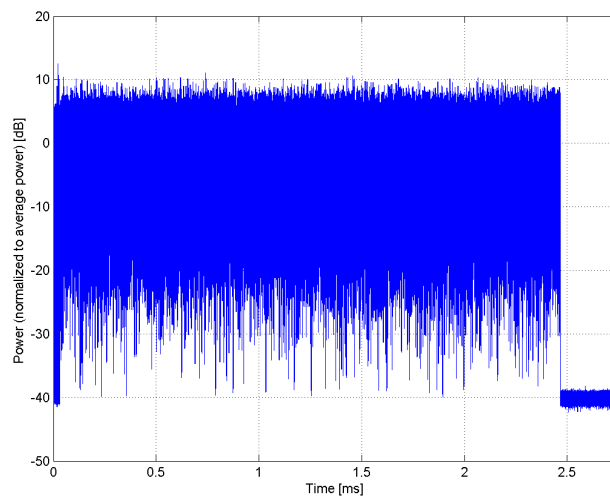
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10600-AAD

PAR: ¹ **8.88 dB**
MIF: ² **-6.06 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: QPSK

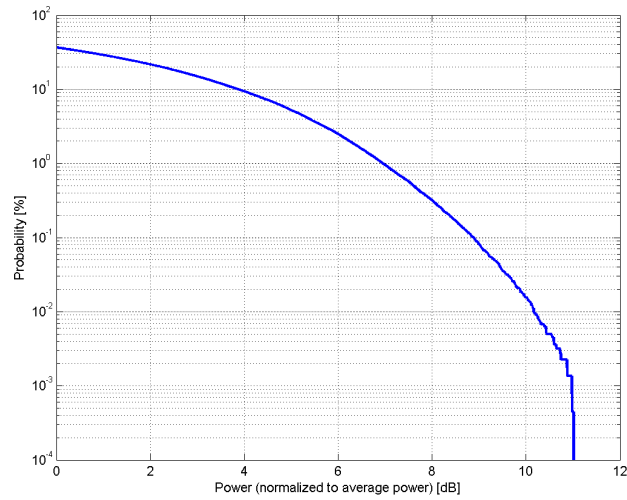
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 1
Guard interval: long

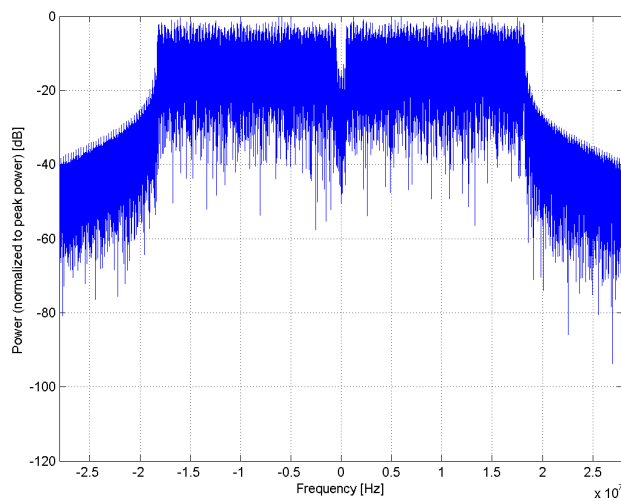
Bandwidth: 40.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

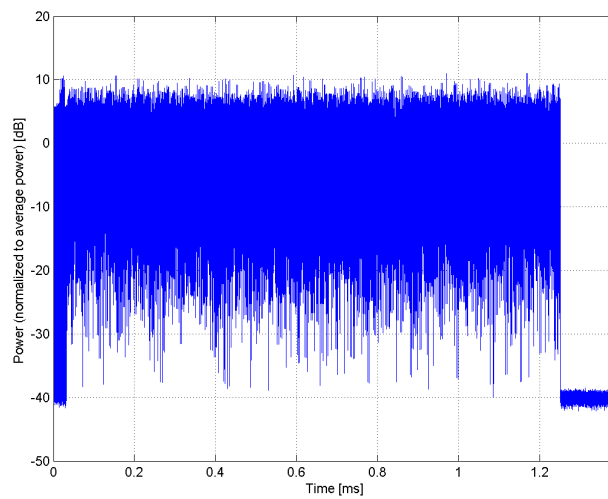
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10601-AAD

PAR: ¹ **8.82 dB**
MIF: ² **-6.59 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

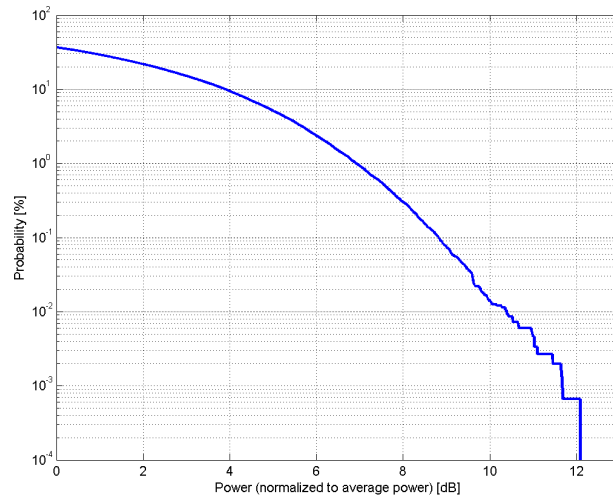
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 2
Guard interval: long

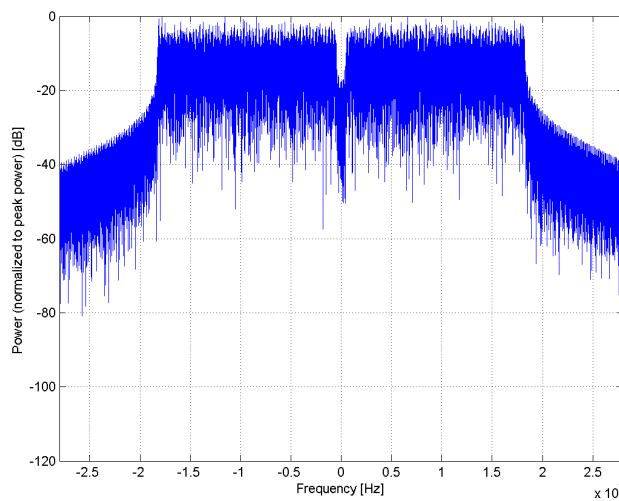
Bandwidth: 40.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

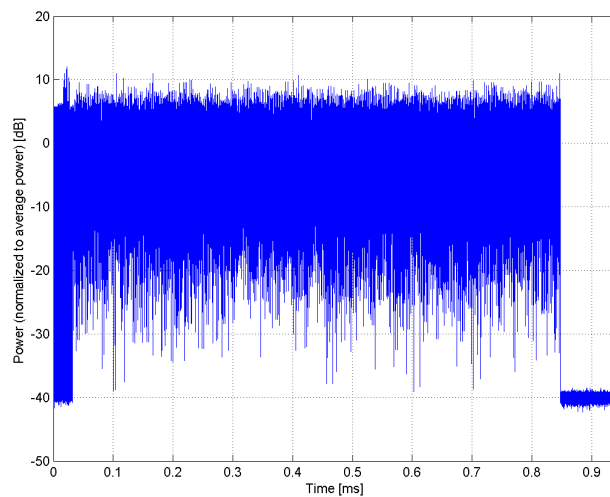
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10602-AAD

PAR: ¹ **8.94 dB**
MIF: ² **-7.17 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

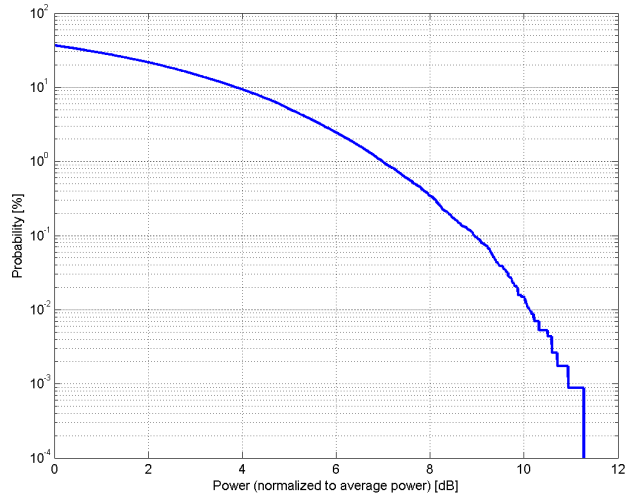
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 3
Guard interval: long

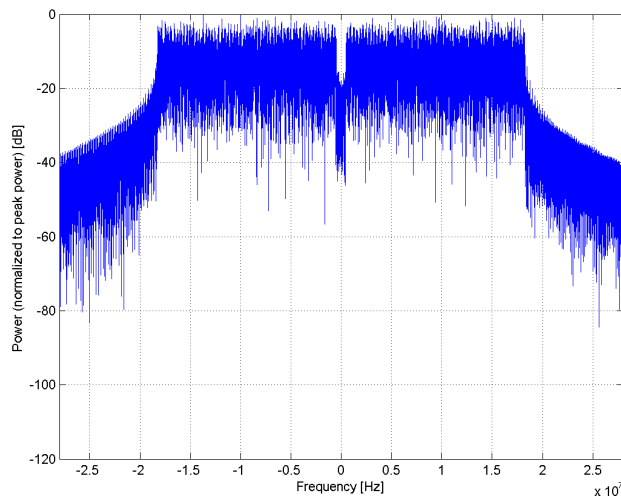
Bandwidth: 40.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

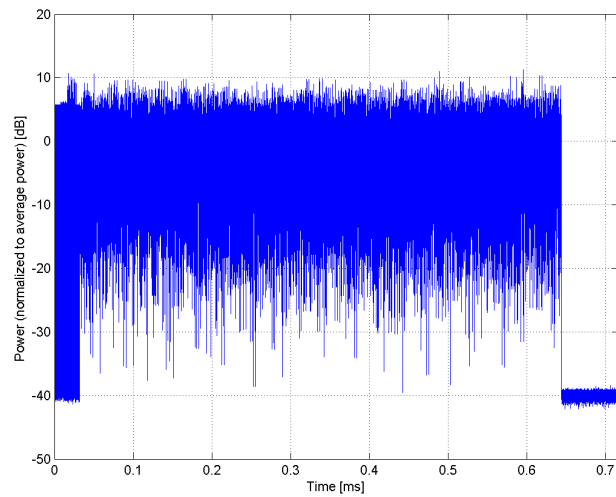
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10603-AAD

PAR: ¹ **9.03 dB**
MIF: ² **-8.03 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

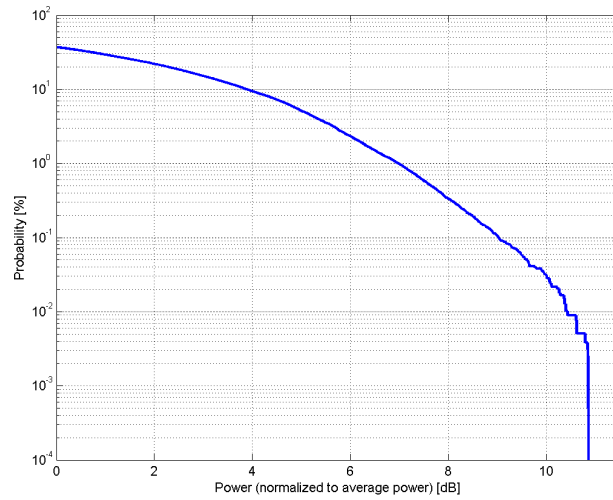
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 4
Guard interval: long

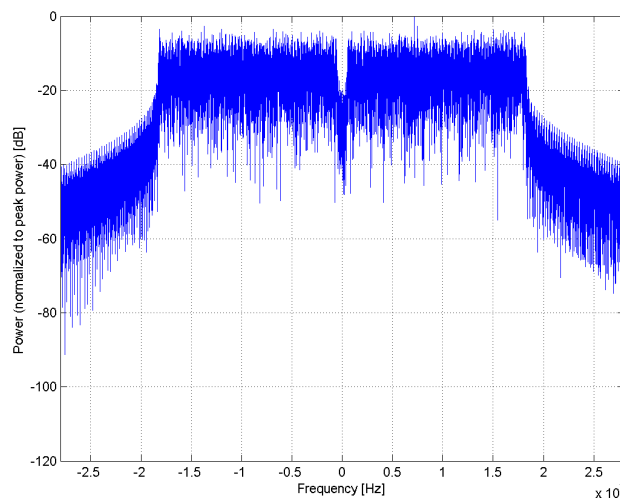
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

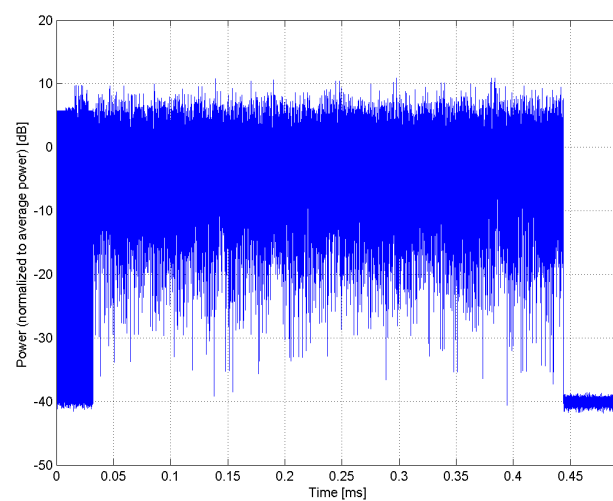
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10604-AAD

PAR: ¹ **8.76 dB**
MIF: ² **-8.65 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

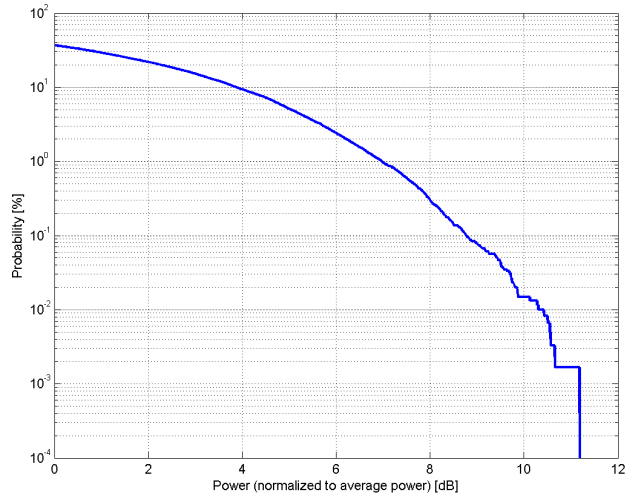
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 5
Guard interval: long

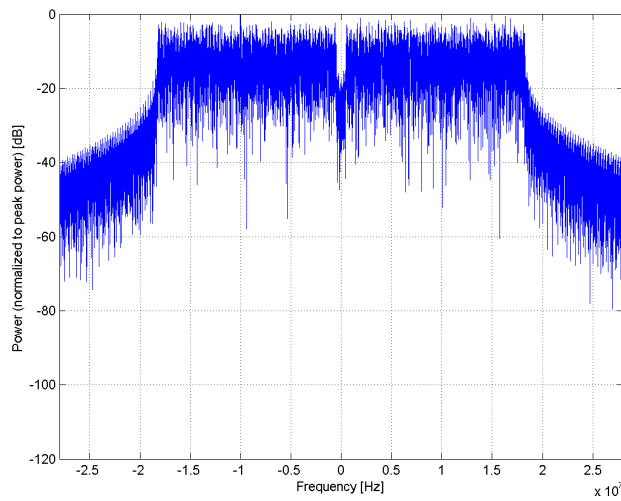
Bandwidth: 40.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

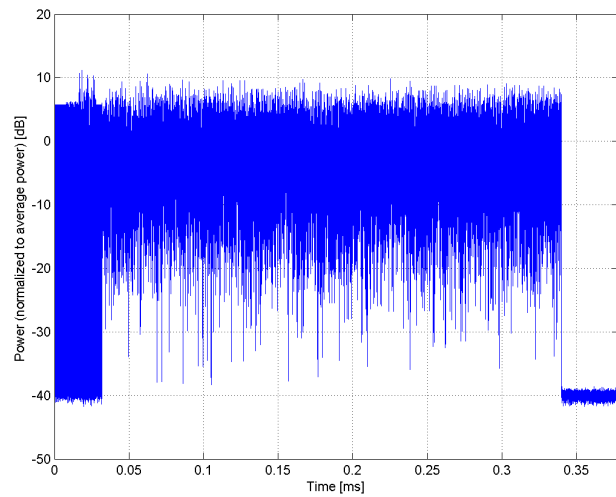
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10605-AAD

PAR: ¹ **8.97 dB**
MIF: ² **-9.23 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

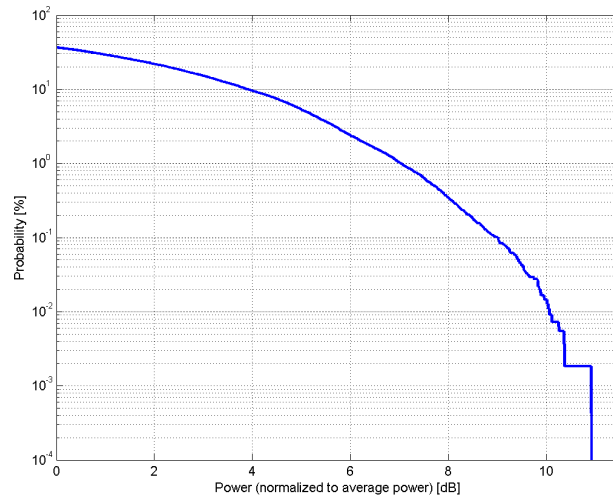
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 6
Guard interval: long

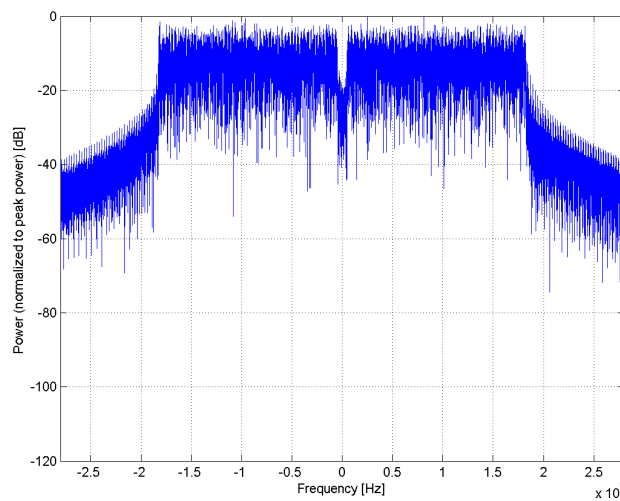
Bandwidth: 40.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

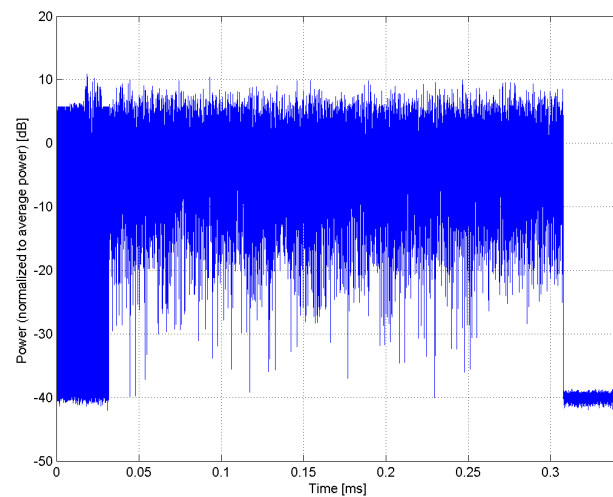
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10606-AAD

PAR: ¹ **8.82 dB**
MIF: ² **-9.43 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

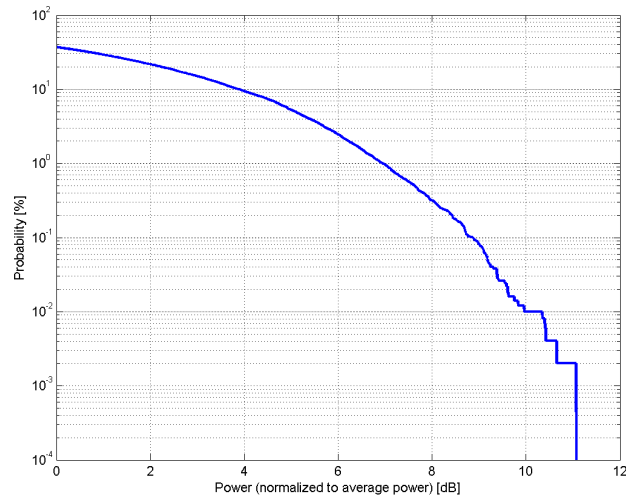
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Duty cycle: 90%
MPDU length: 4096 bytes
MCS: 7
Guard interval: long

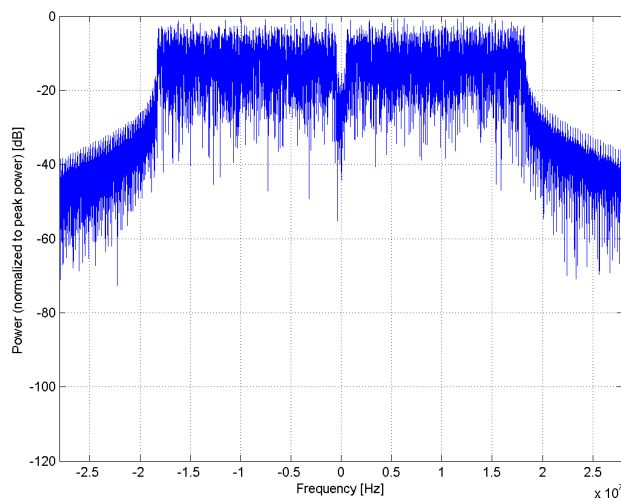
Bandwidth: 40.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

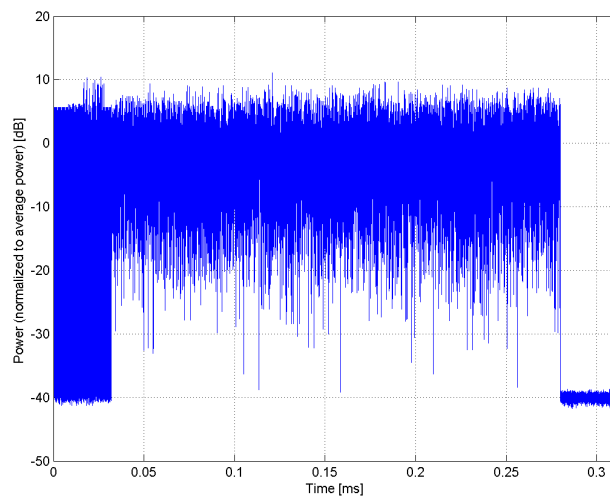
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10607-AAD

PAR: ¹ **8.64 dB**
MIF: ² **-5.60 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

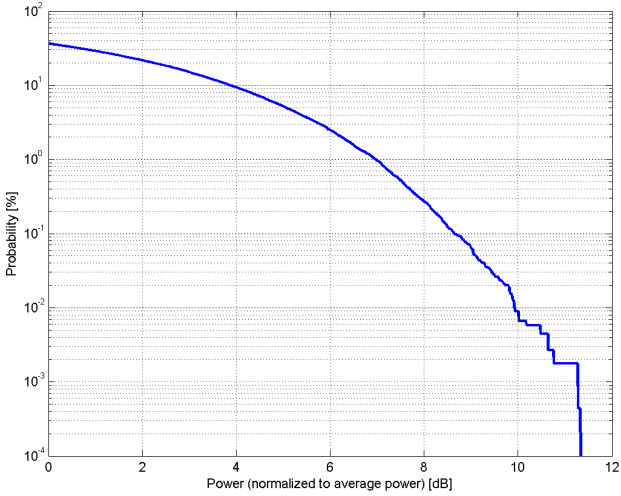
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 0
Number of spatial streams: 1
MPDU length: 4096

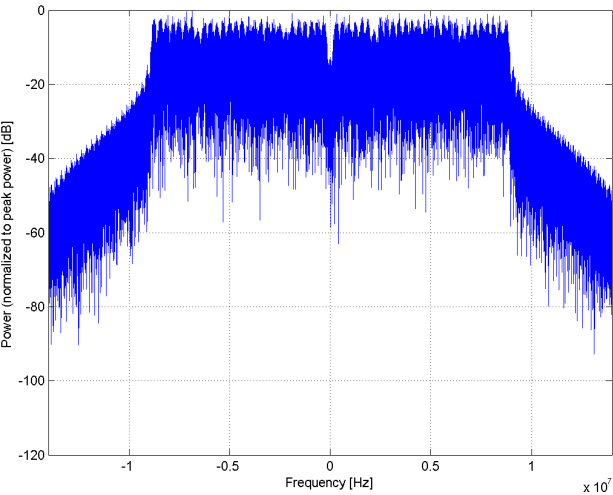
Bandwidth: 20.0 MHz
Integration Time: 5.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

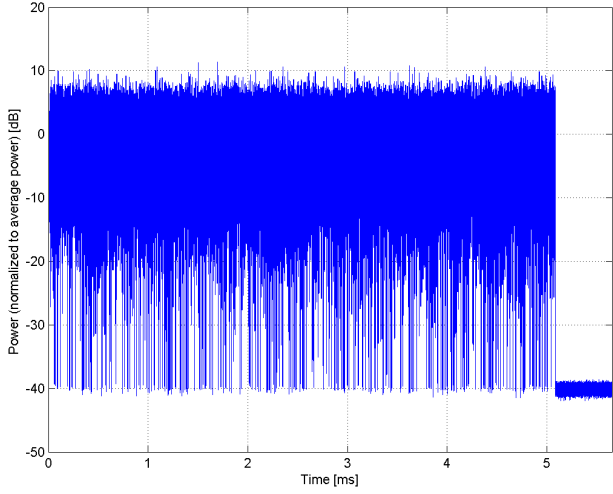
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10608-AAD

PAR: ¹ **8.77 dB**
MIF: ² **-5.62 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

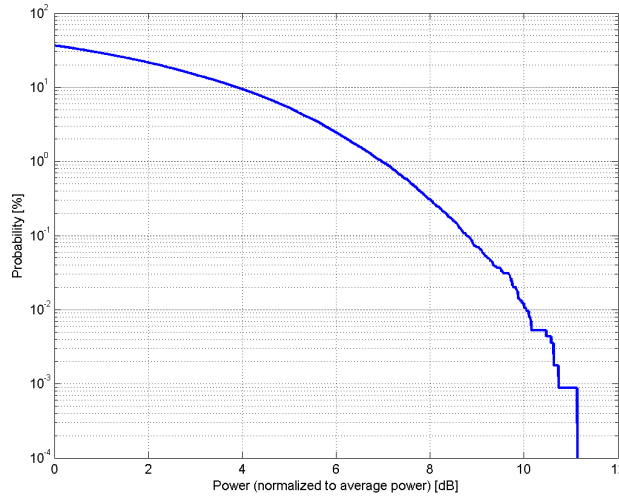
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 1
Number of spatial streams: 1
MPDU length: 4096

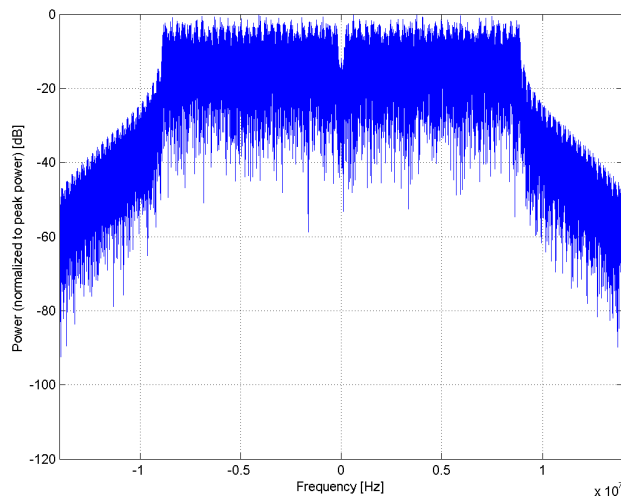
Bandwidth: 20.0 MHz
Integration Time: 2.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

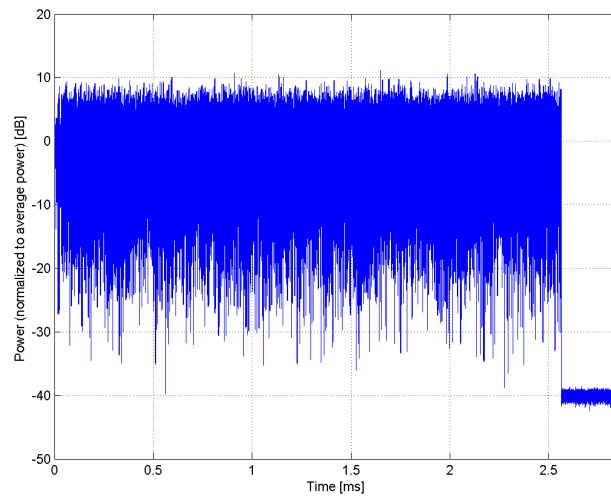
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10609-AAD

PAR: ¹ **8.57 dB**
MIF: ² **-5.85 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

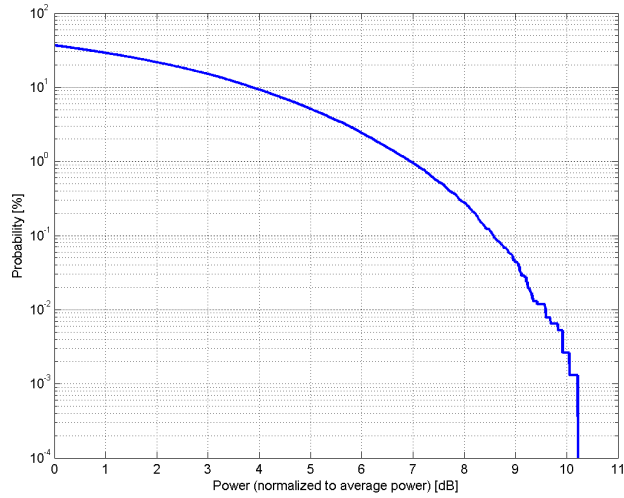
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 2
Number of spatial streams: 1
MPDU length: 4096

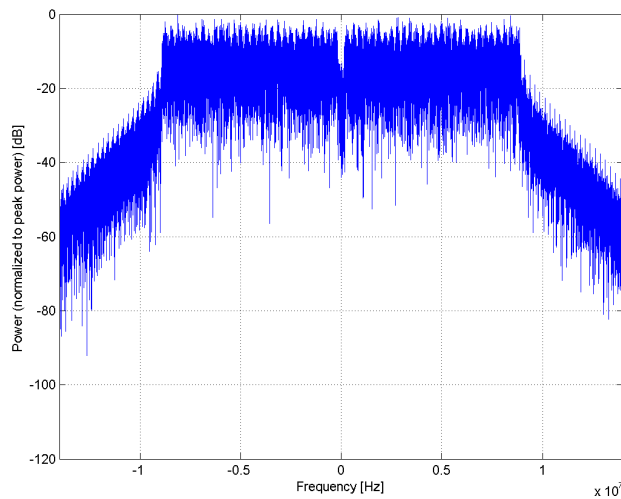
Bandwidth: 20.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

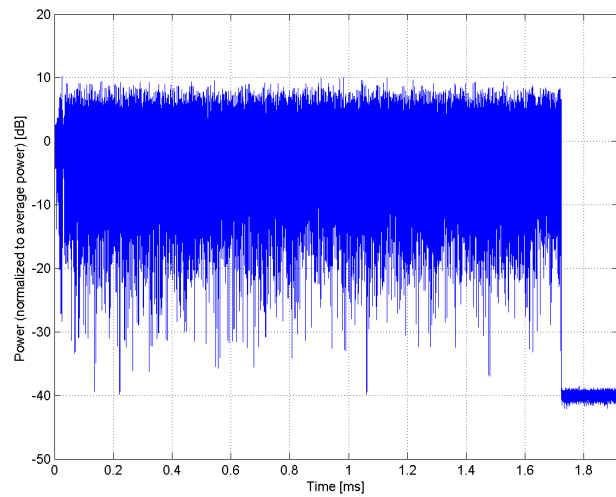
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10610-AAD

PAR: ¹ **8.78 dB**
MIF: ² **-6.15 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

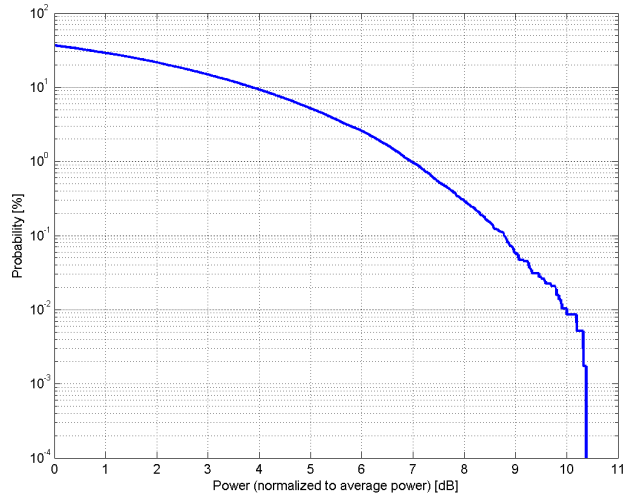
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 3
Number of spatial streams: 1
MPDU length: 4096

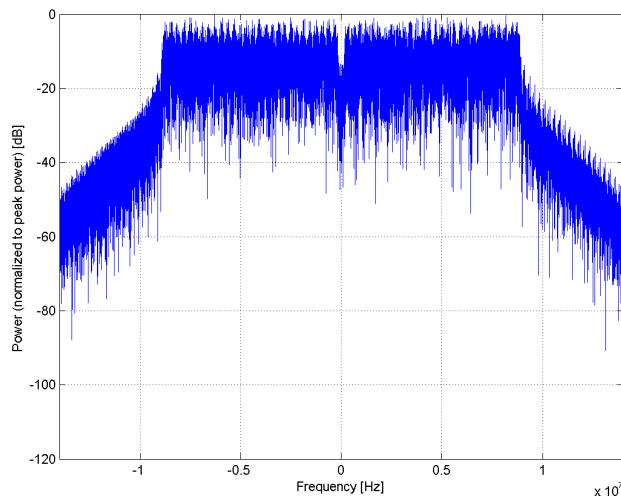
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

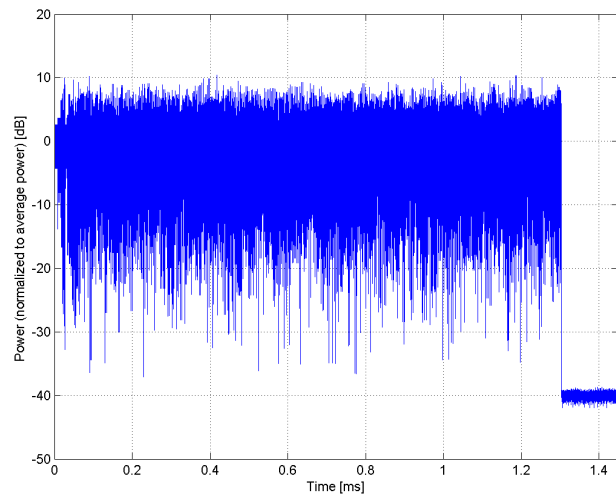
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10611-AAD

PAR: ¹ **8.70 dB**
MIF: ² **-6.70 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

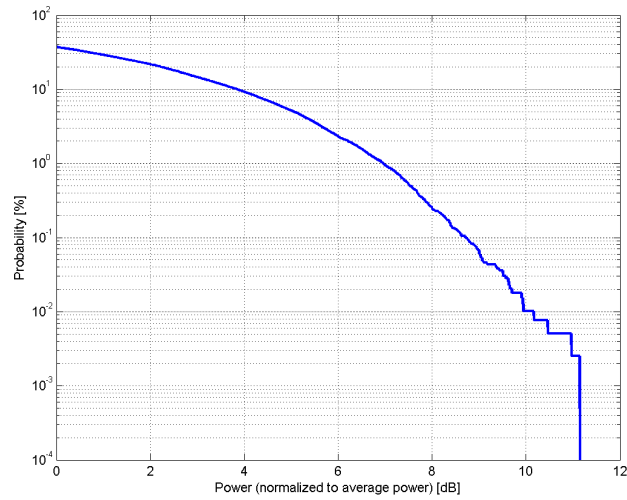
Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 4
Number of spatial streams: 1
MPDU length: 4096

Bandwidth: 20.0 MHz

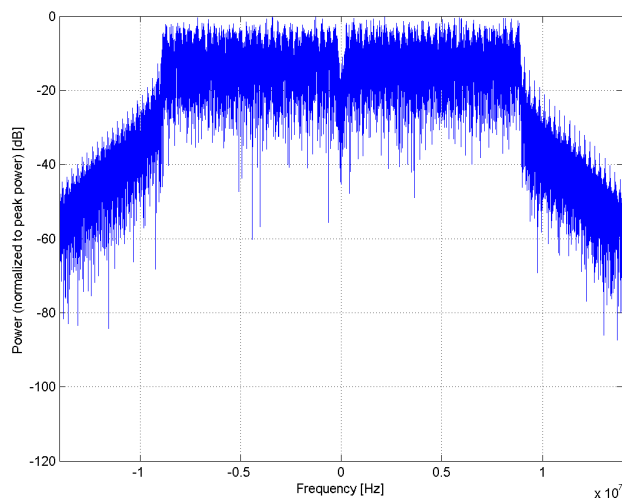
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

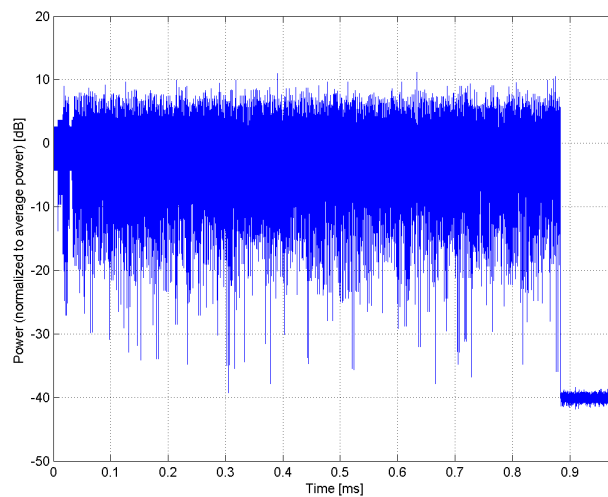
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10612-AAD

PAR: ¹ **8.77 dB**
MIF: ² **-7.25 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

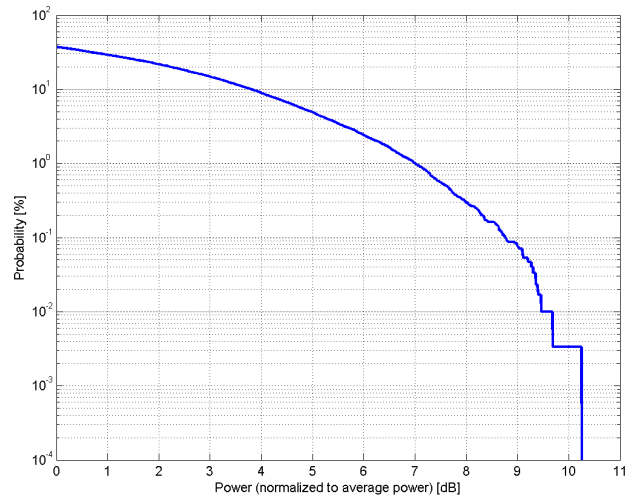
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 5
Number of spatial streams: 1
MPDU length: 4096

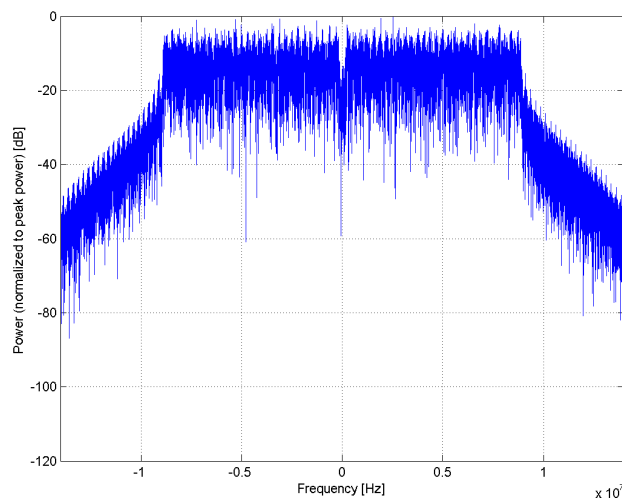
Bandwidth: 20.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

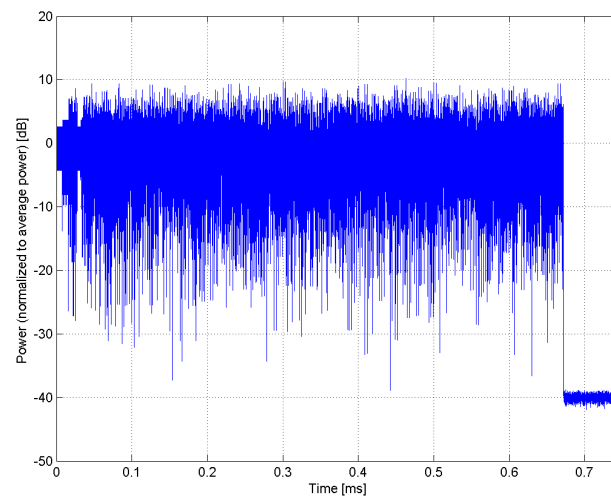
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10613-AAD

PAR: ¹ **8.94 dB**
MIF: ² **-7.58 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

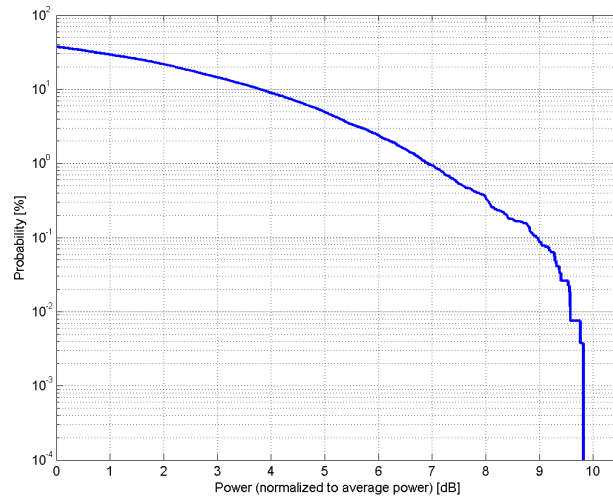
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 6
Number of spatial streams: 1
MPDU length: 4096

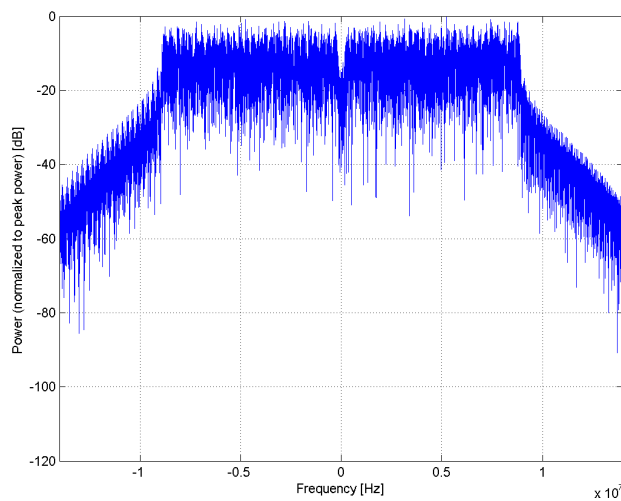
Bandwidth: 20.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

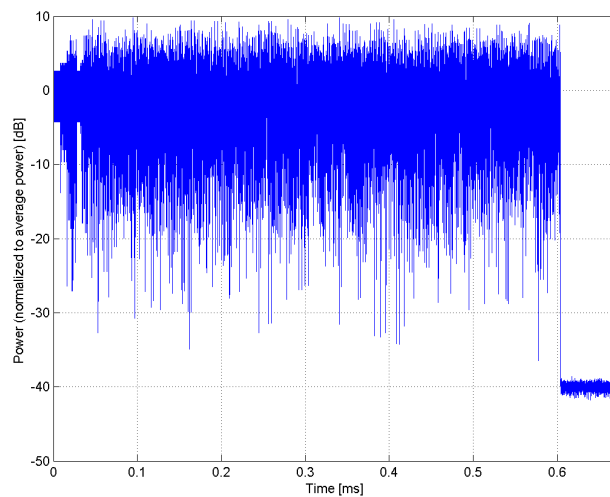
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10614-AAD

PAR: ¹ **8.59 dB**
MIF: ² **-7.91 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

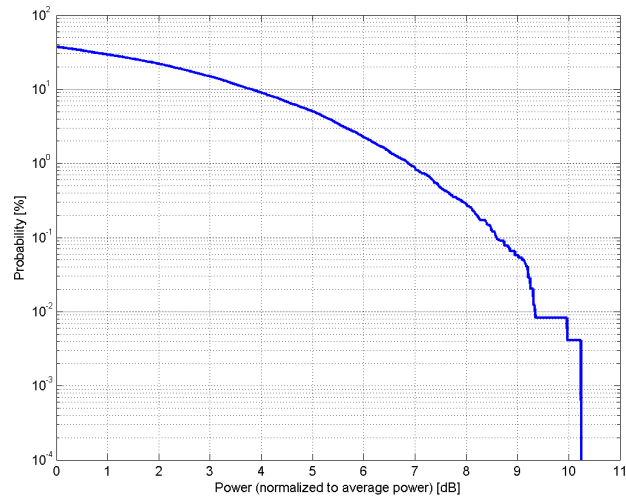
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 7
Number of spatial streams: 1
MPDU length: 4096

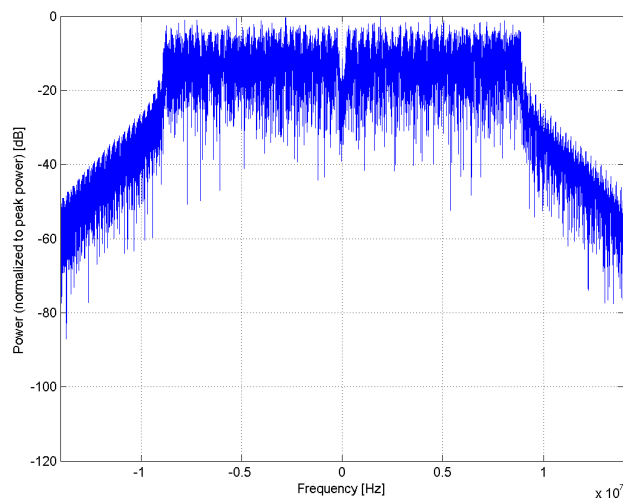
Bandwidth: 20.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

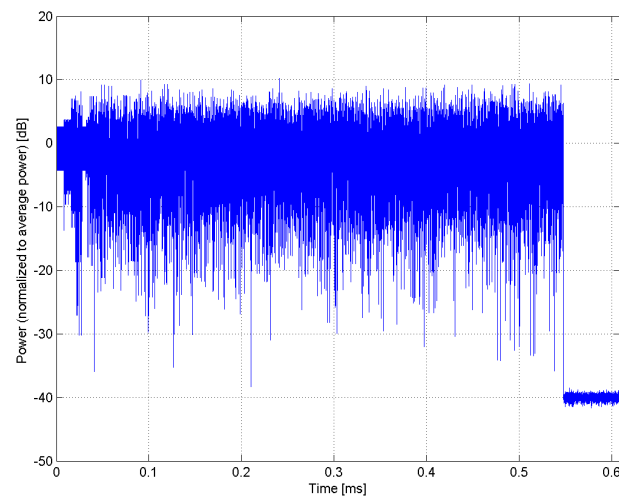
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10615-AAD

PAR: ¹ **8.82 dB**
MIF: ² **-8.41 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

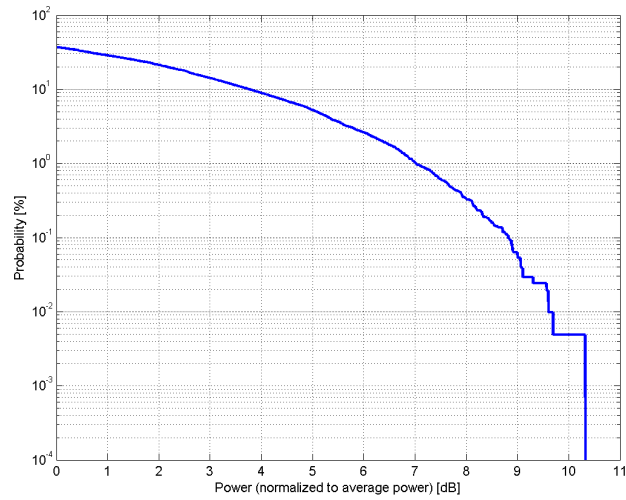
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty cycle: 90%
MCS: 8
Number of spatial streams: 1
MPDU length: 4096

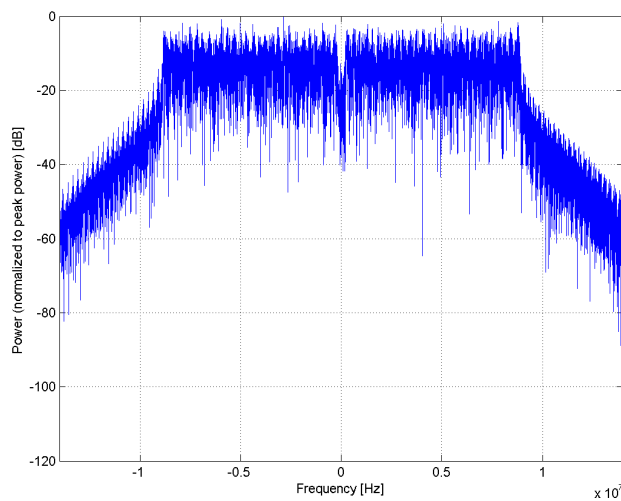
Bandwidth: 20.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

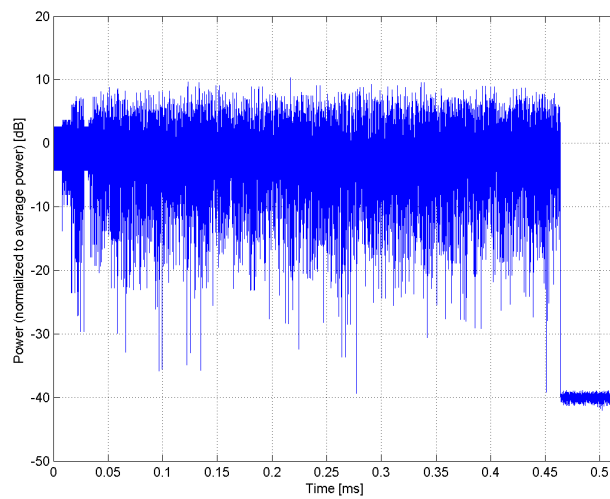
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10616-AAD

PAR: ¹ **8.82 dB**
MIF: ² **-5.57 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

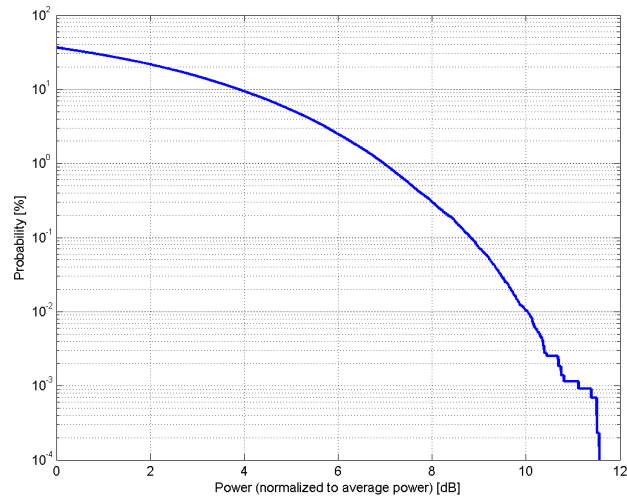
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 0
Number of spatial streams: 1
MPDU length: 8192

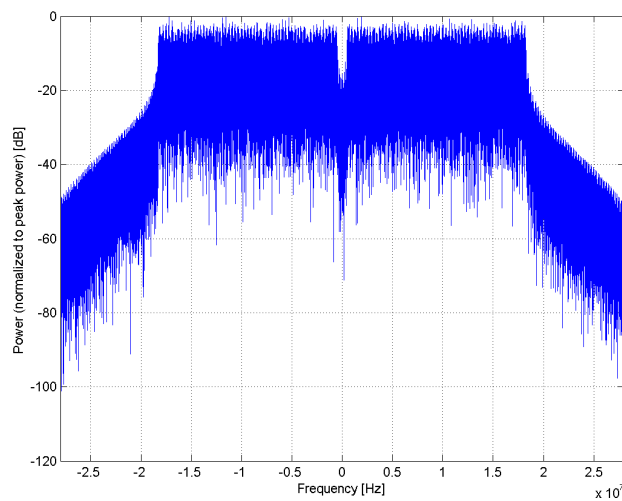
Bandwidth: 40.0 MHz
Integration Time: 5.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

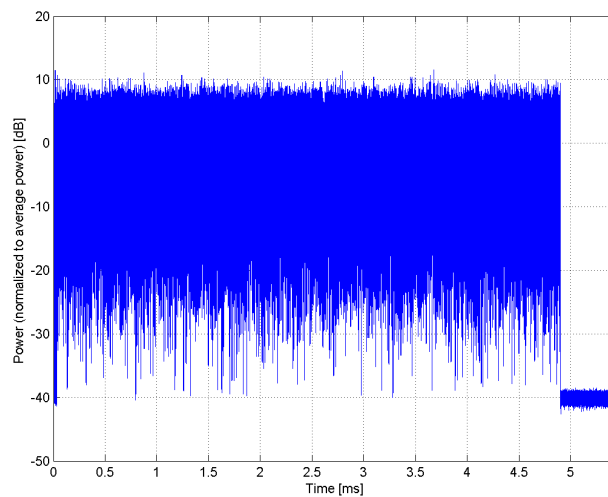
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10617-AAD

PAR: ¹ **8.81 dB**
MIF: ² **-5.59 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

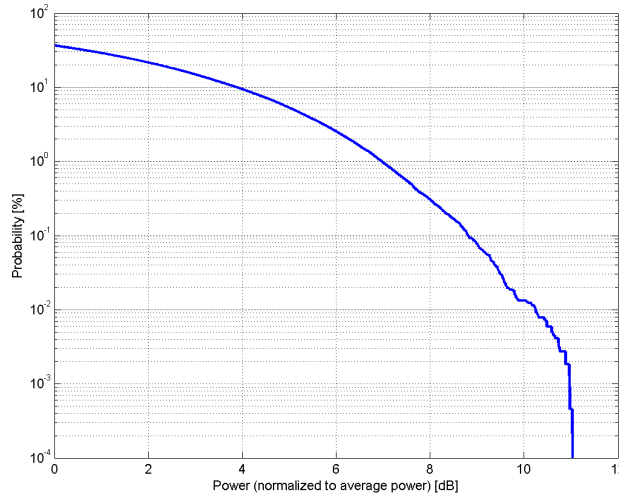
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 1
Number of spatial streams: 1
MPDU length: 8192

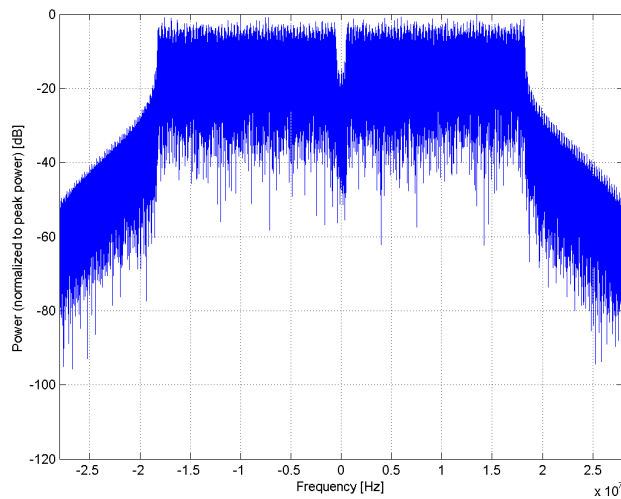
Bandwidth: 40.0 MHz
Integration Time: 2.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

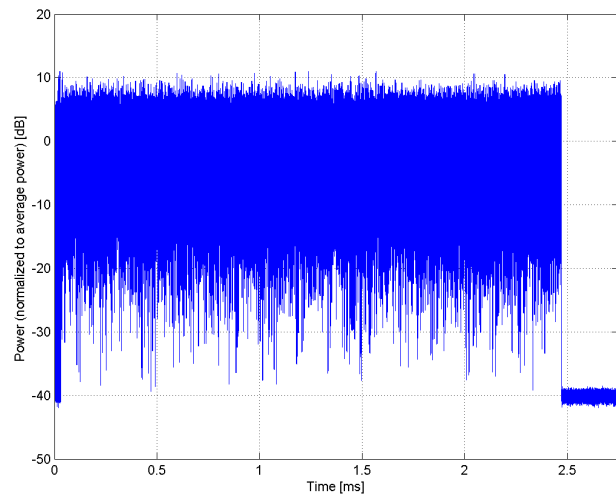
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10618-AAD

PAR: ¹ **8.58 dB**
MIF: ² **-5.78 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

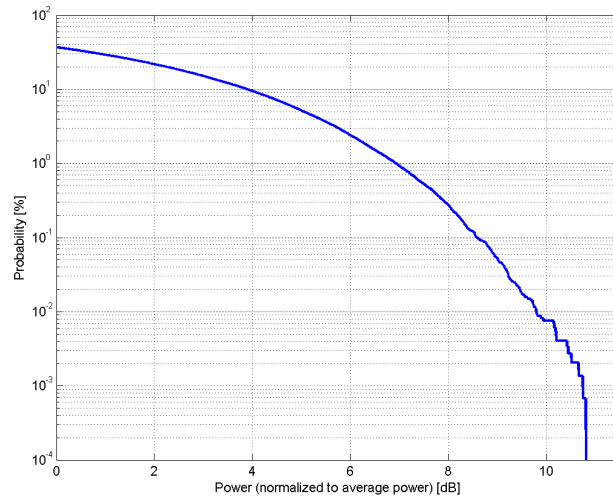
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 2
Number of spatial streams: 1
MPDU length: 8192

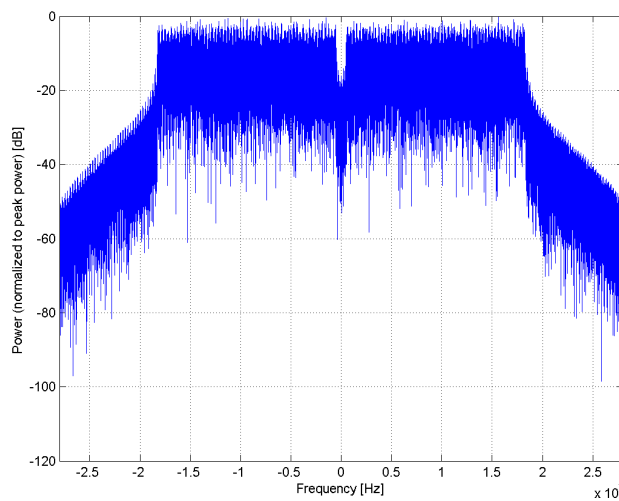
Bandwidth: 40.0 MHz
Integration Time: 1.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

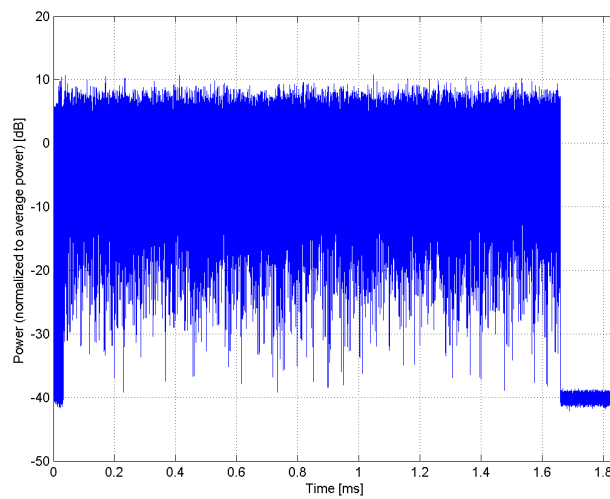
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10619-AAD

PAR: ¹ **8.86 dB**
MIF: ² **-6.02 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

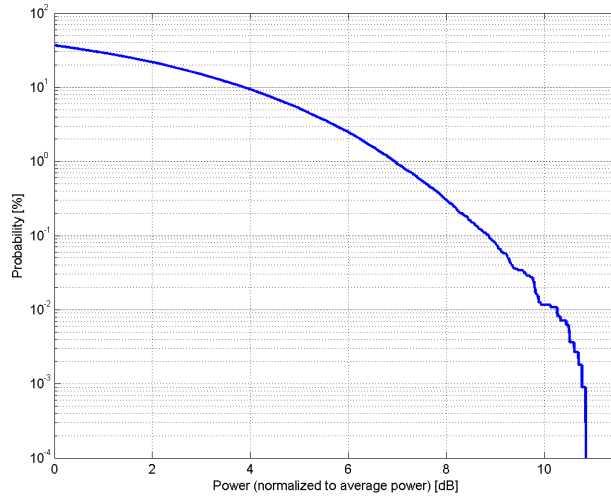
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 3
Number of spatial streams: 1
MPDU length: 8192

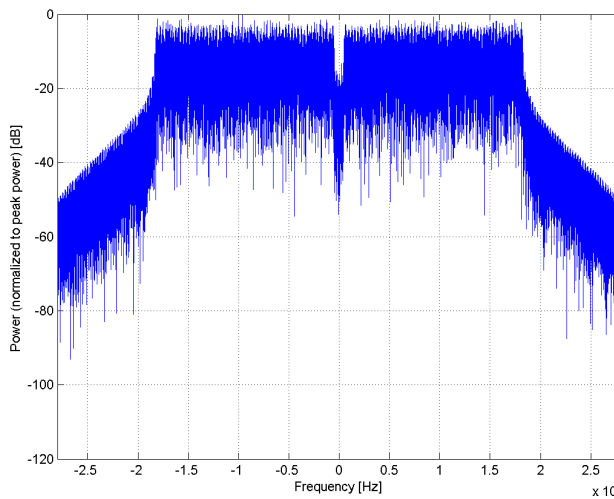
Bandwidth: 40.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

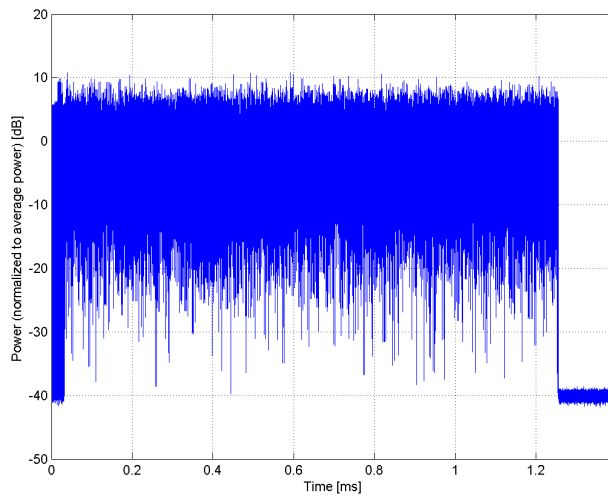
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10620-AAD

PAR: ¹ **8.87 dB**
MIF: ² **-6.57 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

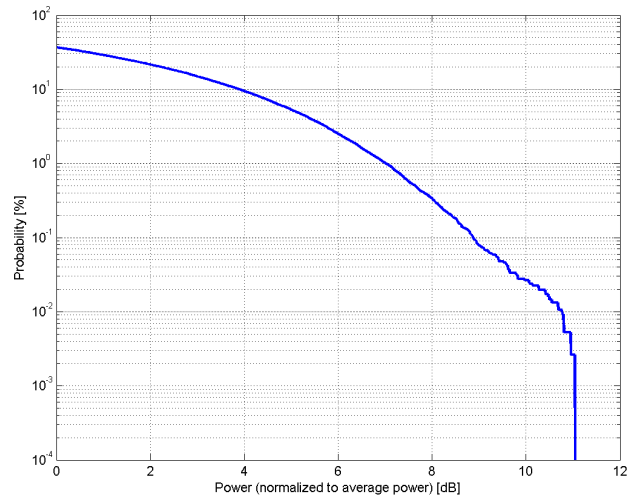
Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 4
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 40.0 MHz

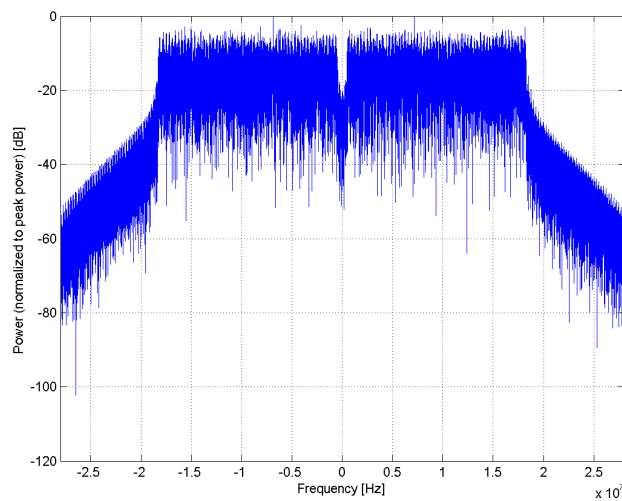
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

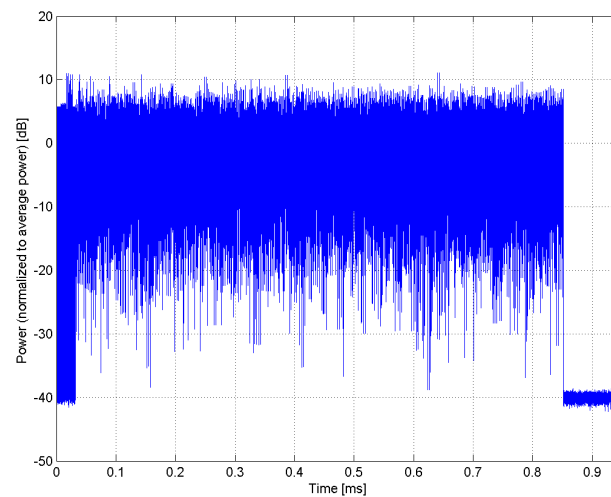
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10621-AAD

PAR: ¹ **8.77 dB**
MIF: ² **-6.92 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

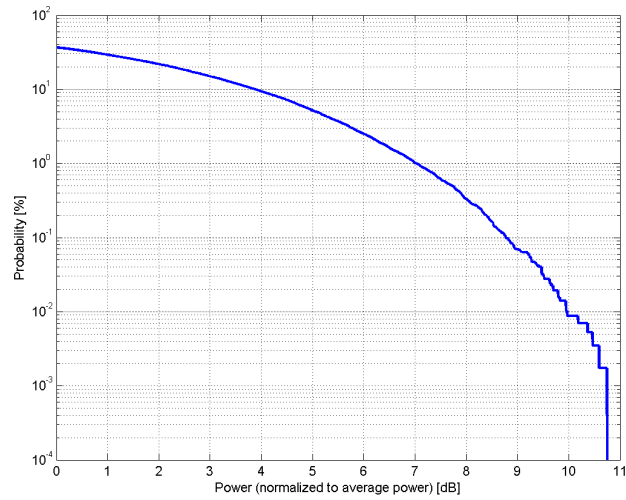
Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 5
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 40.0 MHz

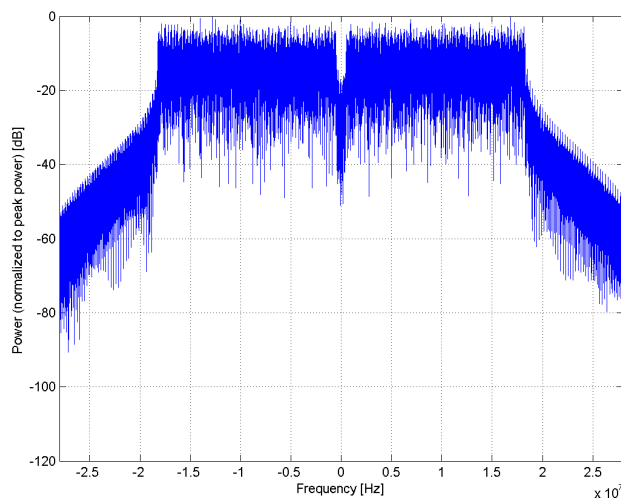
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

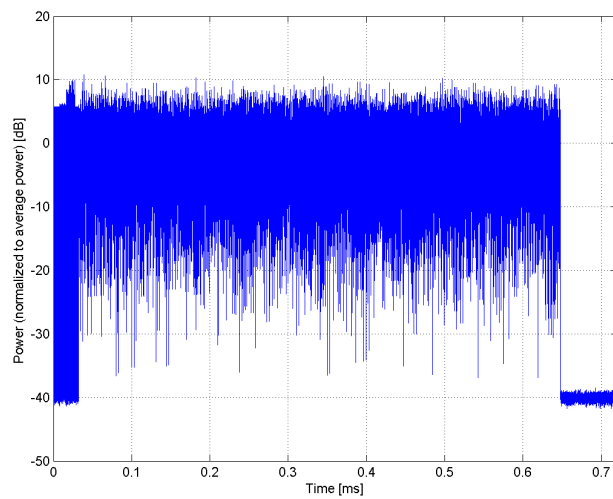
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10622-AAD

PAR: ¹ **8.68 dB**
MIF: ² **-7.33 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

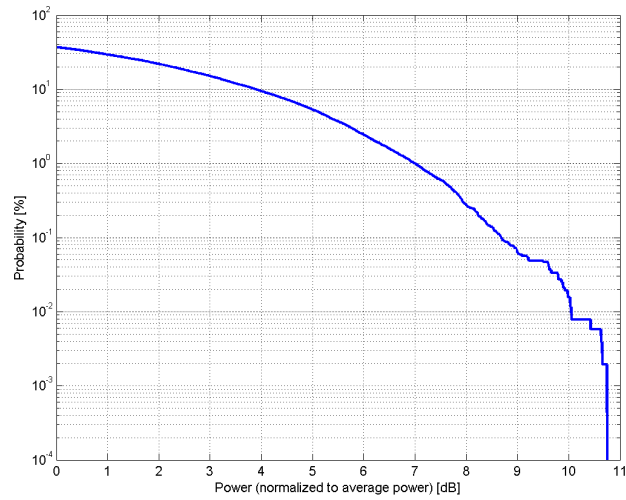
Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 6
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 40.0 MHz

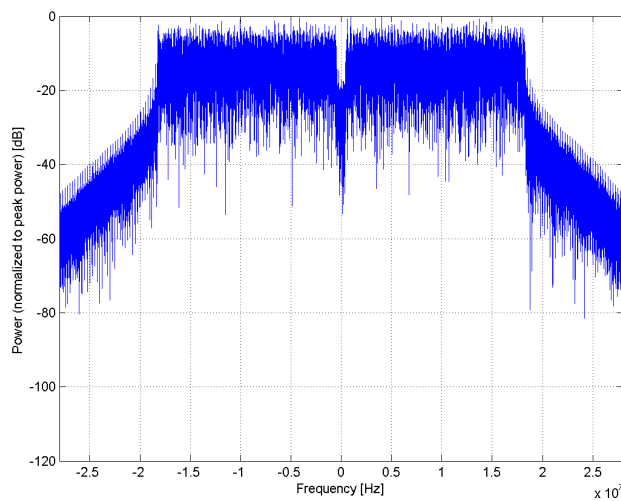
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

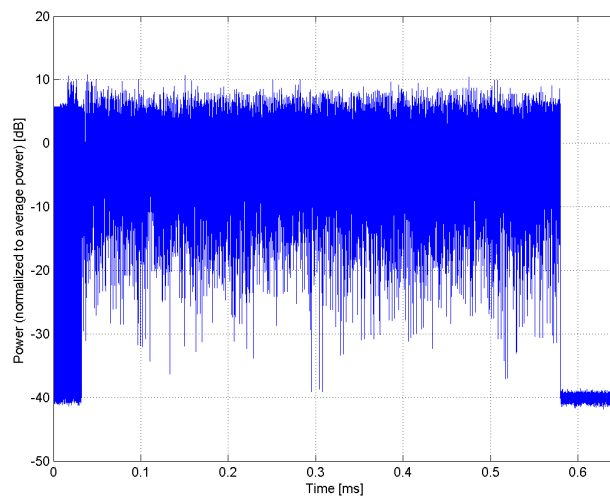
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10623-AAD

PAR: ¹ **8.82 dB**
MIF: ² **-7.44 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

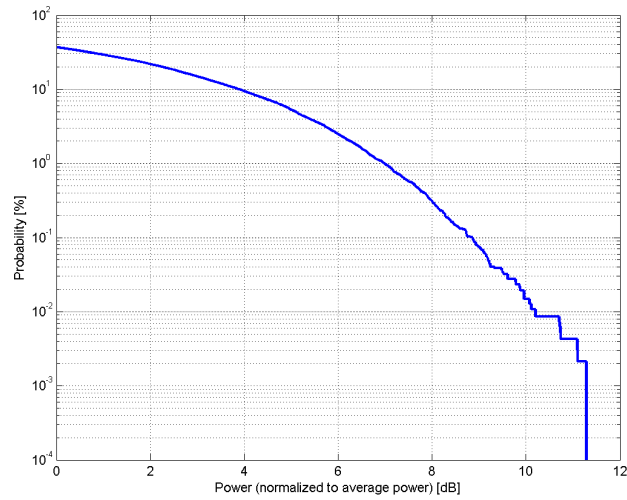
Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 7
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 40.0 MHz

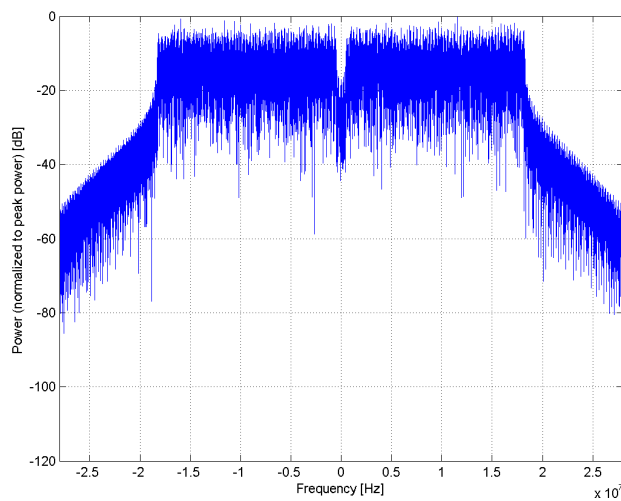
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

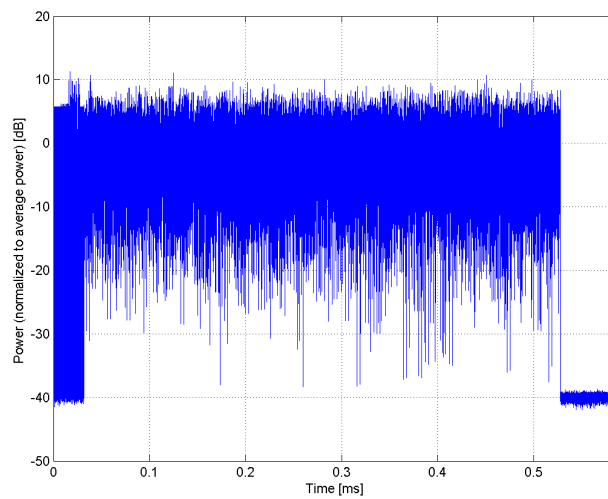
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10624-AAD

PAR: ¹ **8.96 dB**
MIF: ² **-7.73 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

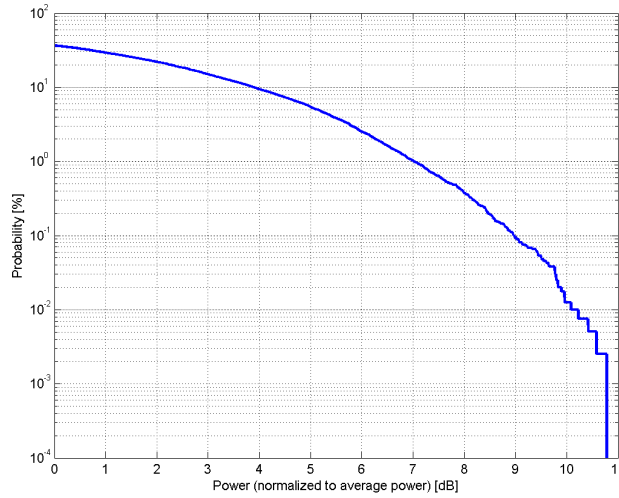
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 8
Number of spatial streams: 1
MPDU length: 8192

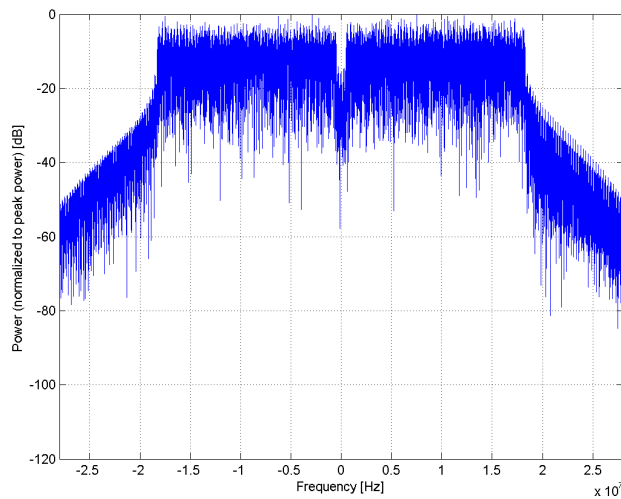
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

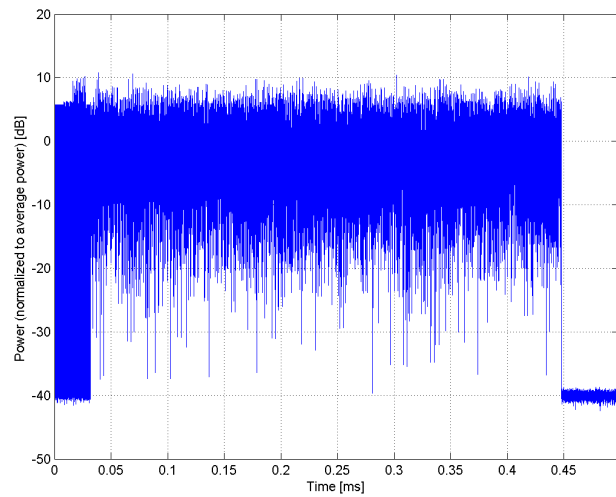
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10625-AAD

PAR: ¹ **8.96 dB**
MIF: ² **-8.15 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

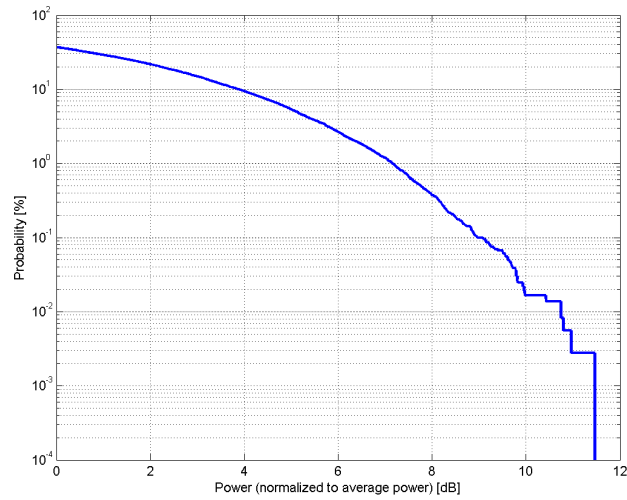
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty cycle: 90%
MCS: 9
Number of spatial streams: 1
MPDU length: 8192

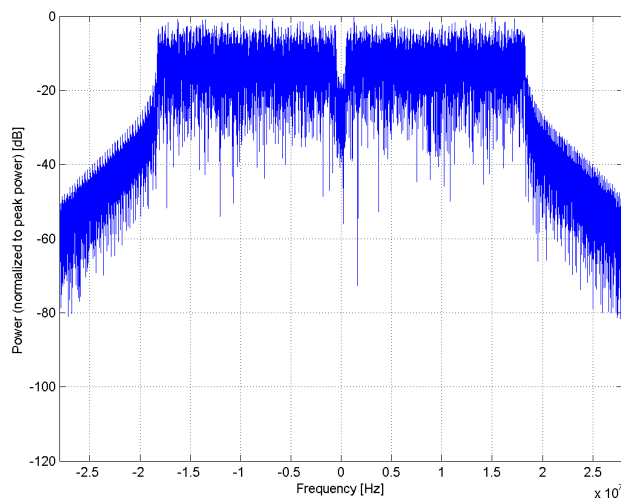
Bandwidth: 40.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

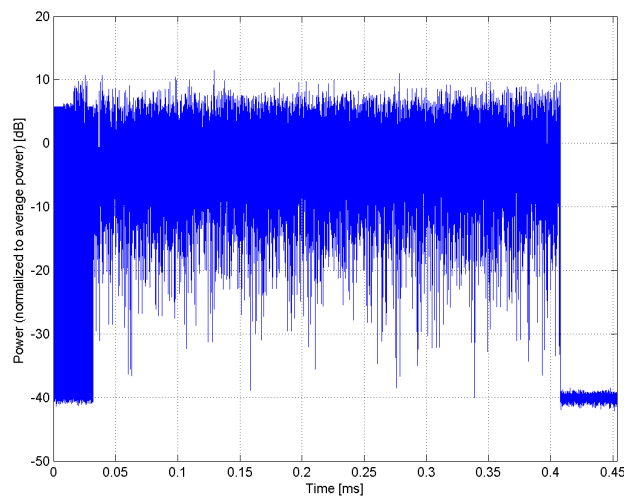
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10626-AAD

PAR: ¹ **8.83 dB**
MIF: ² **-5.64 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

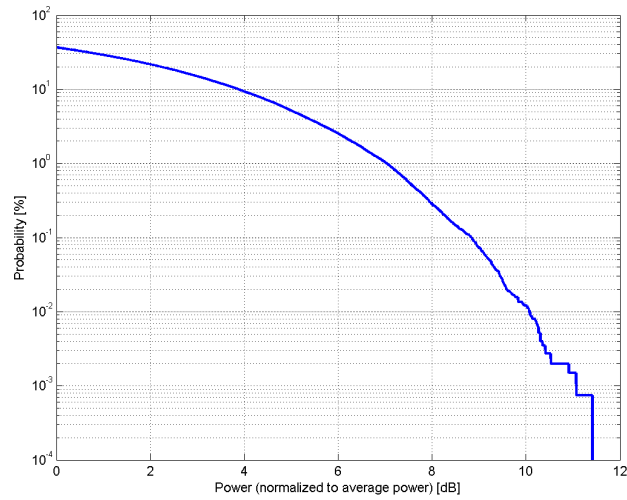
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 0
Number of spatial streams: 1
MPDU length: 8192

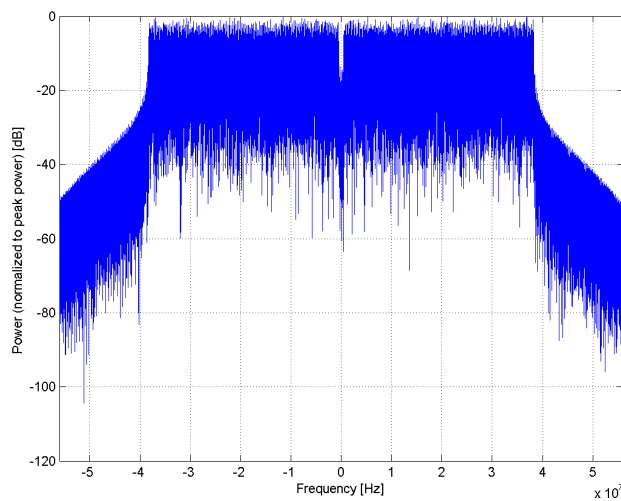
Bandwidth: 80.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

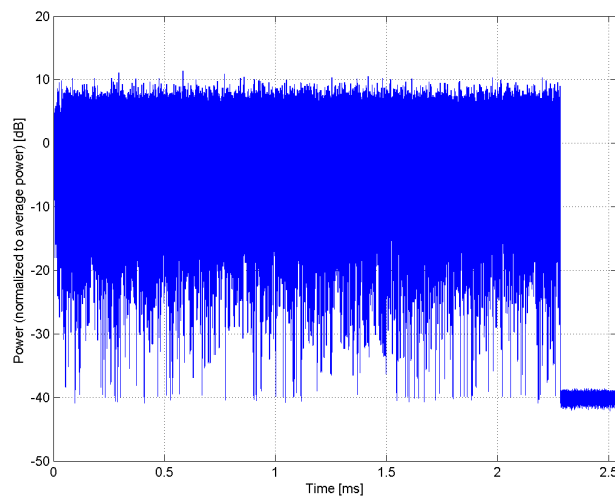
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10627-AAD

PAR: ¹ **8.88 dB**
MIF: ² **-6.22 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

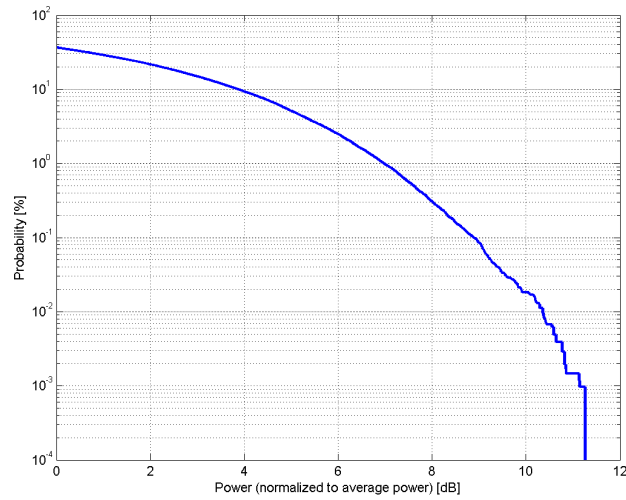
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 1
Number of spatial streams: 1
MPDU length: 8192

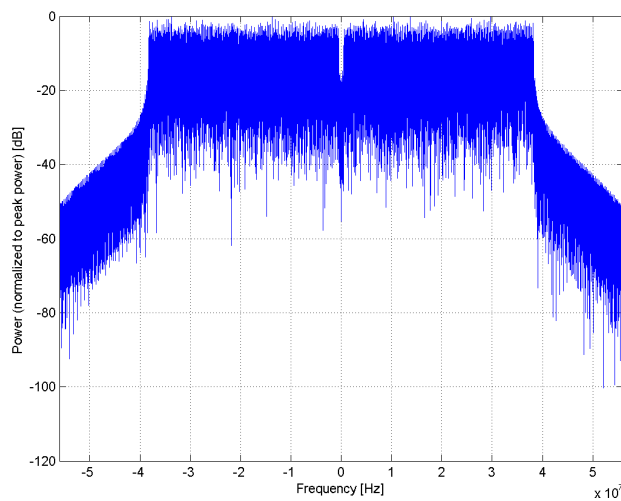
Bandwidth: 80.0 MHz
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

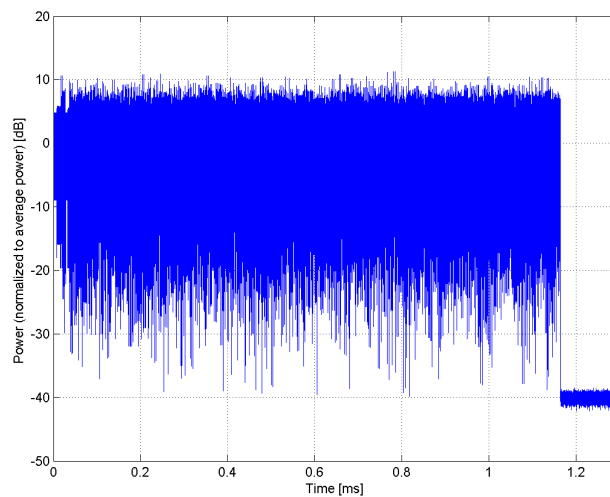
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10628-AAD

PAR: ¹ **8.71 dB**
MIF: ² **-6.84 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

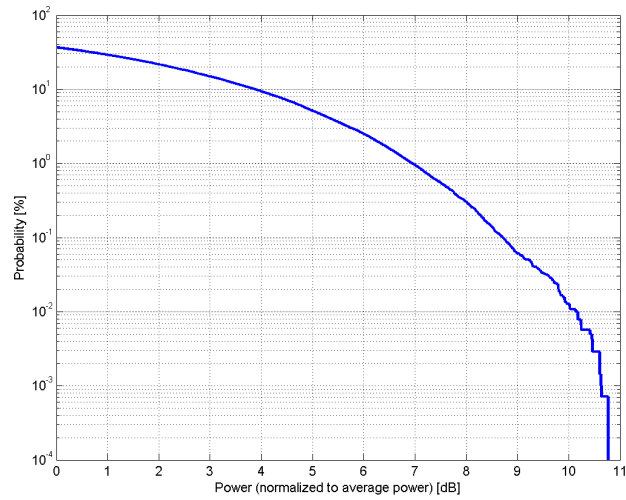
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 2
Number of spatial streams: 1
MPDU length: 8192

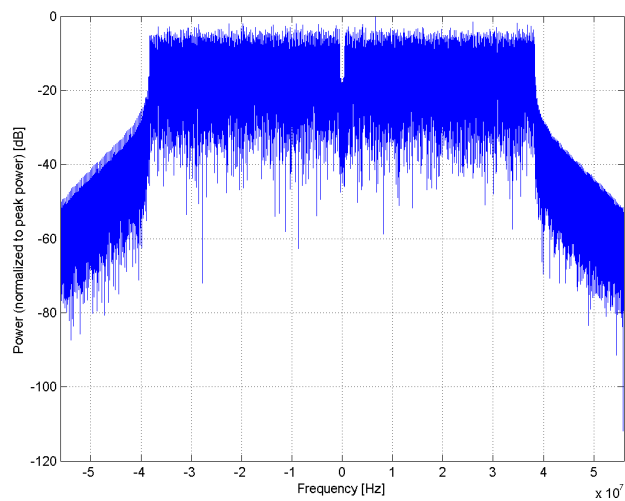
Bandwidth: 80.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

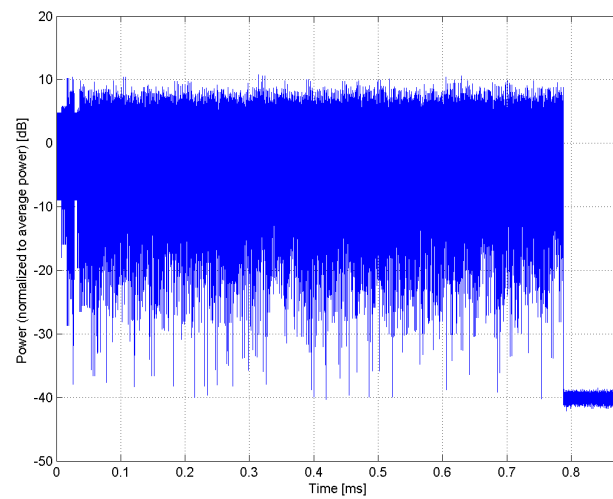
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10629-AAD

PAR: ¹ **8.85 dB**
MIF: ² **-7.44 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

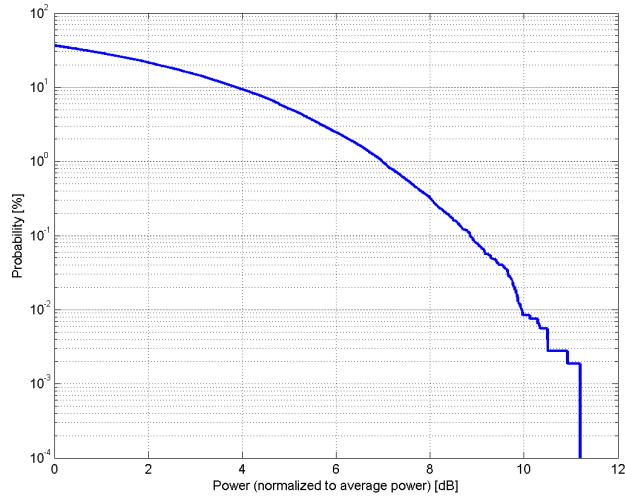
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 3
Number of spatial streams: 1
MPDU length: 8192

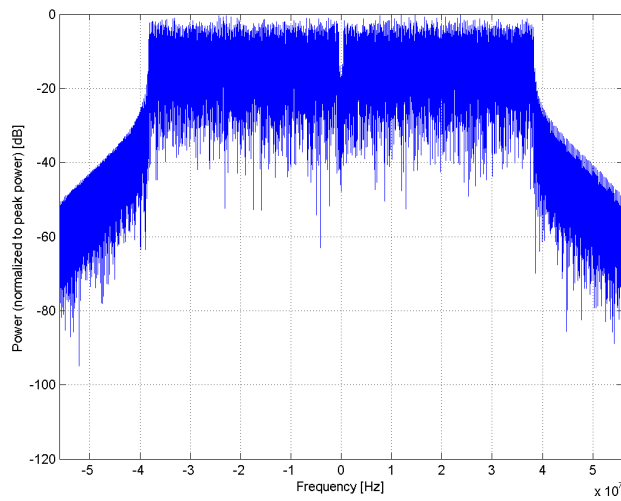
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

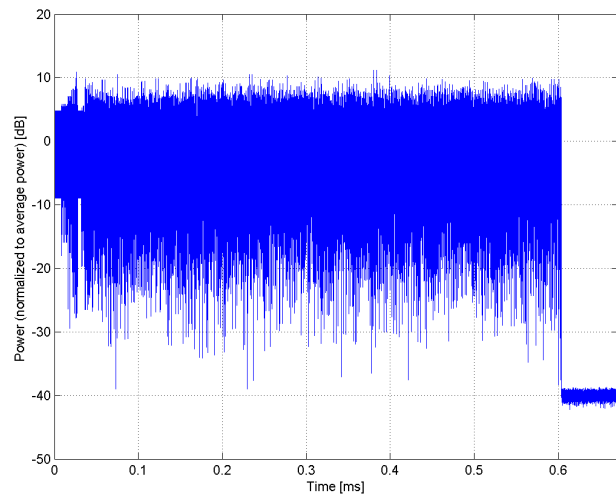
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10630-AAD

PAR: ¹ **8.72 dB**
MIF: ² **-8.48 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

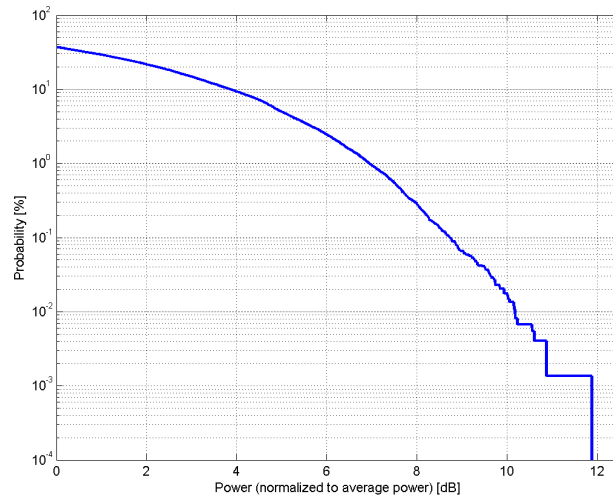
Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 4
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 80.0 MHz

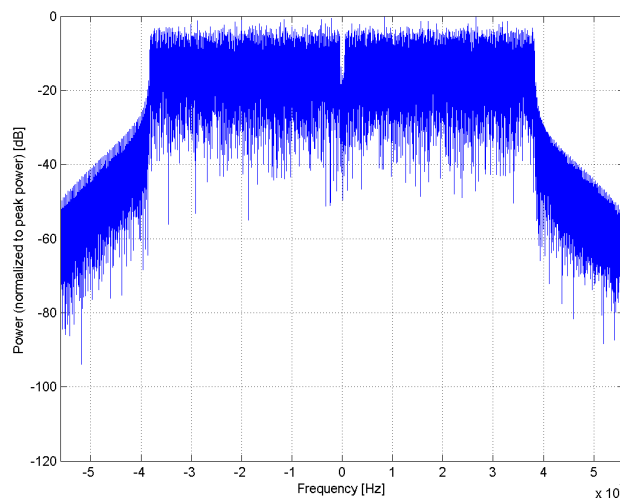
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

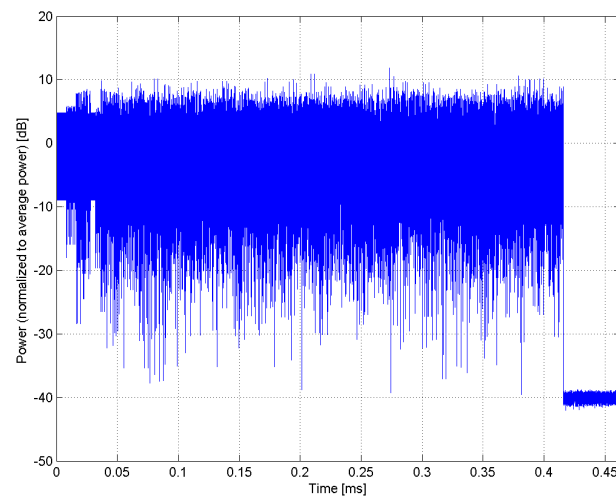
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10631-AAD

PAR: ¹ **8.81 dB**
MIF: ² **-9.17 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

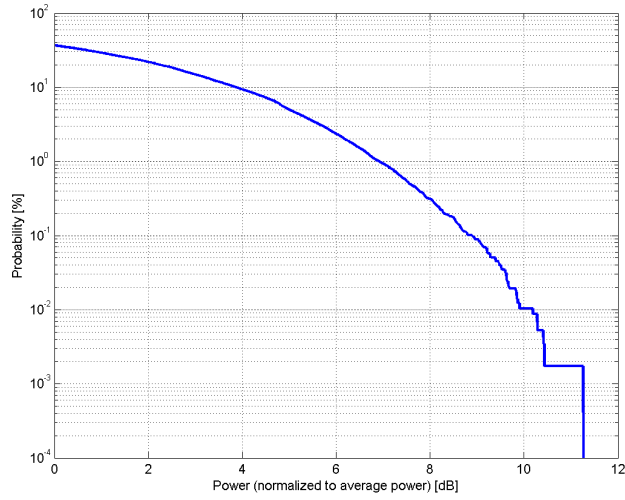
Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 5
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 80.0 MHz

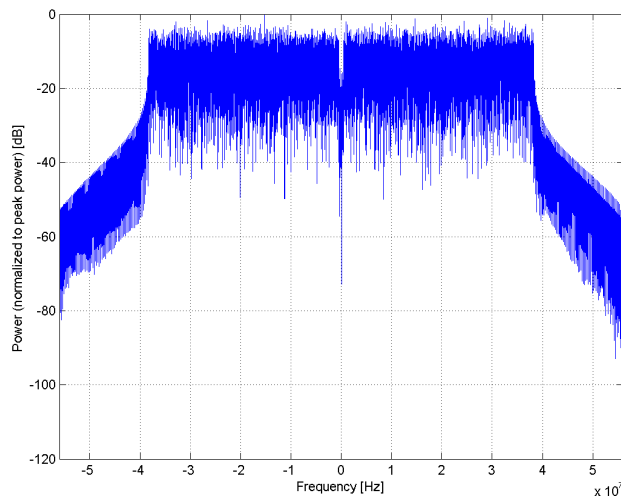
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

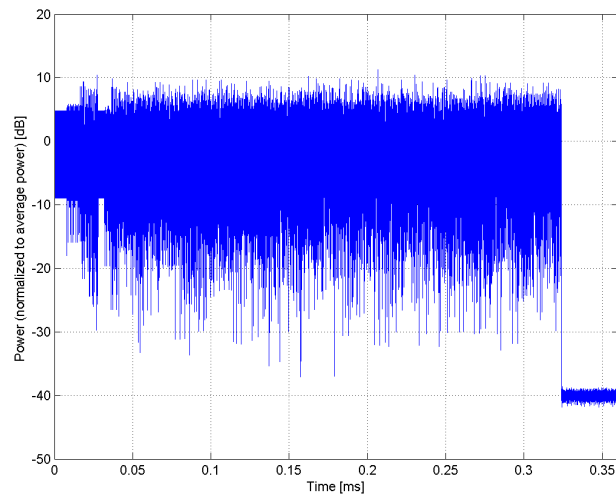
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10632-AAD

PAR: ¹ **8.74 dB**
MIF: ² **-9.64 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

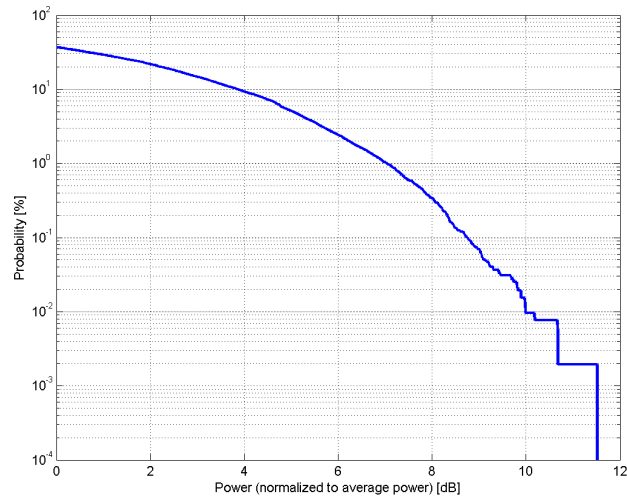
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 6
Number of spatial streams: 1
MPDU length: 8192

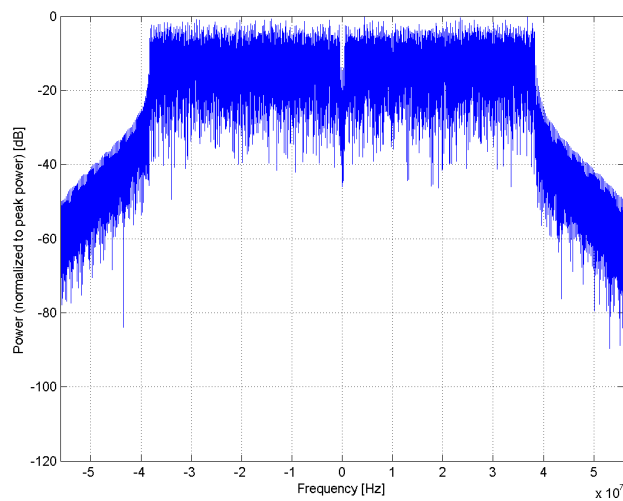
Bandwidth: 80.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

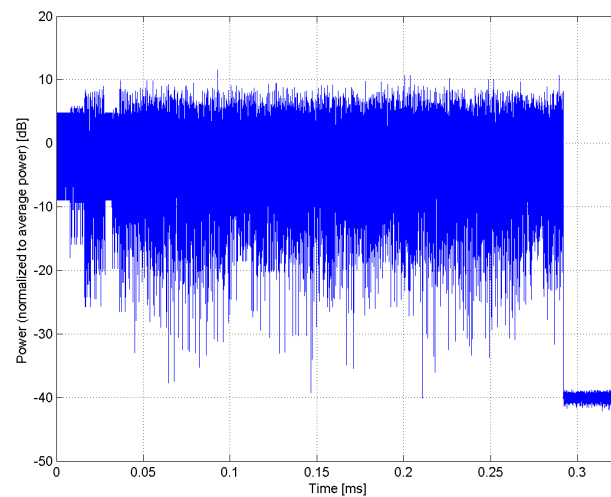
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10633-AAD

PAR: ¹ **8.83 dB**
MIF: ² **-9.97 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

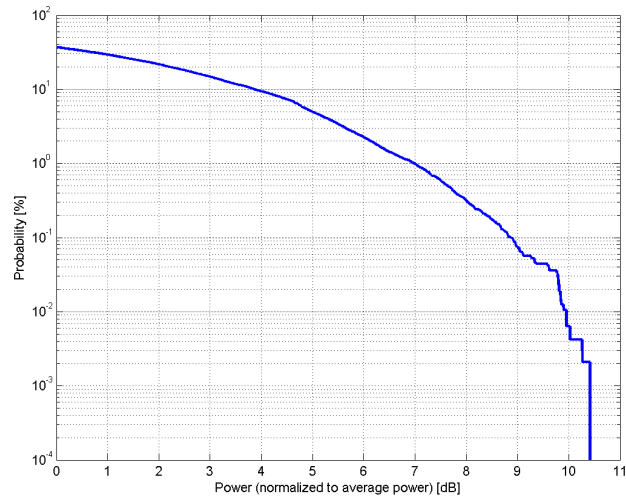
Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 7
Number of spatial streams: 1
MPDU length: 8192

Bandwidth: 80.0 MHz

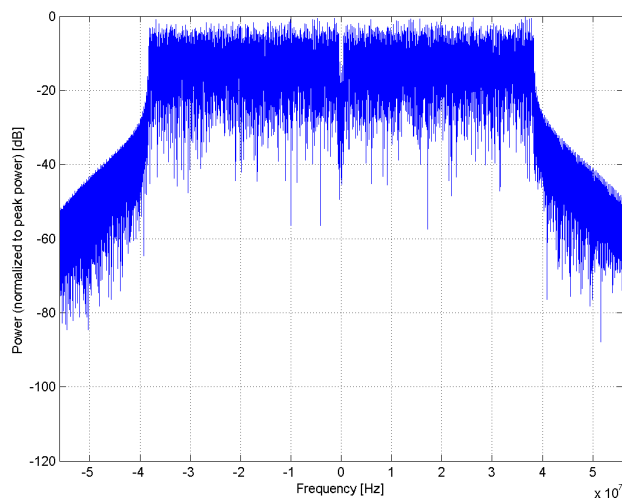
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

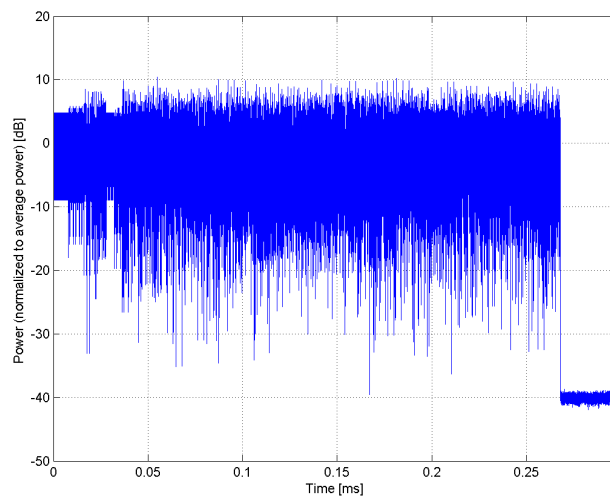
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10634-AAD

PAR: ¹ **8.80 dB**
MIF: ² **-10.92 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

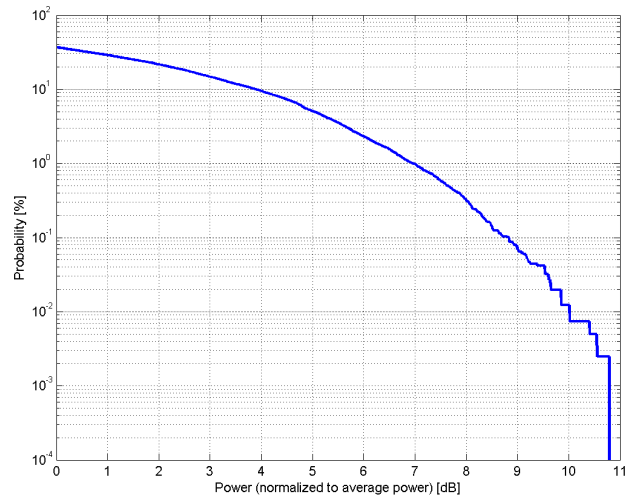
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 8
Number of spatial streams: 1
MPDU length: 8192

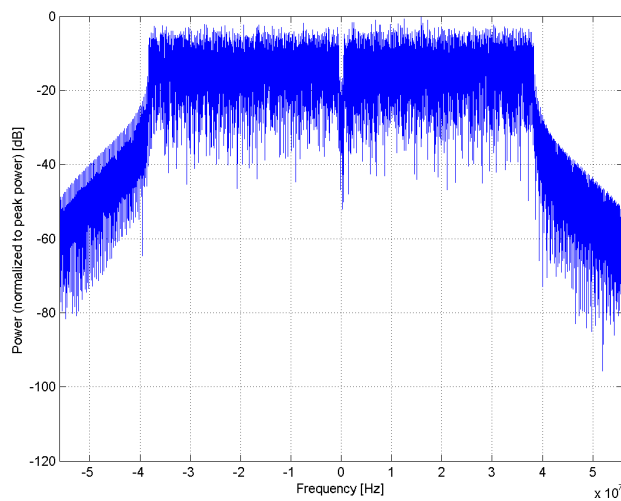
Bandwidth: 80.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

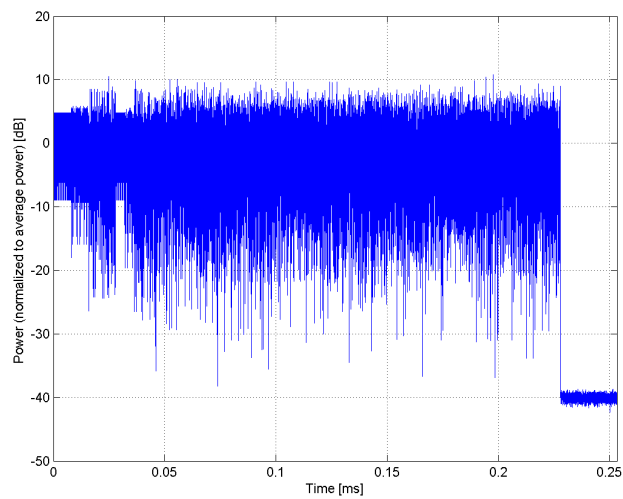
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10635-AAD

PAR: ¹ **8.81 dB**
MIF: ² **-11.43 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

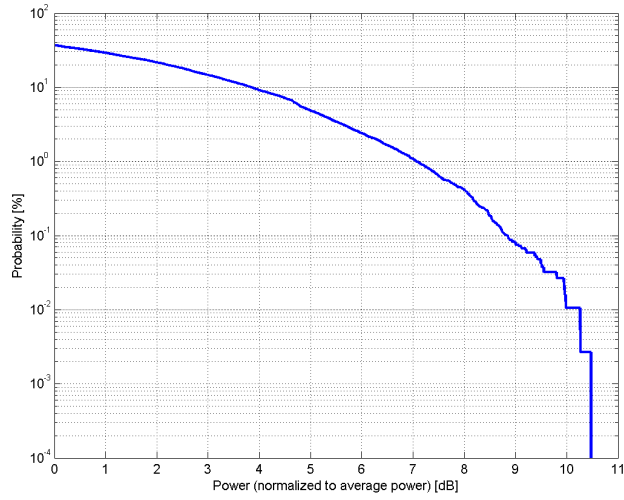
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty cycle: 90%
MCS: 9
Number of spatial streams: 1
MPDU length: 8192

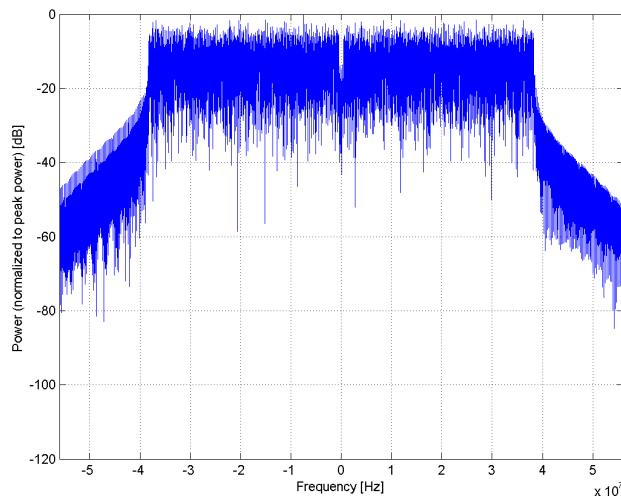
Bandwidth: 80.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

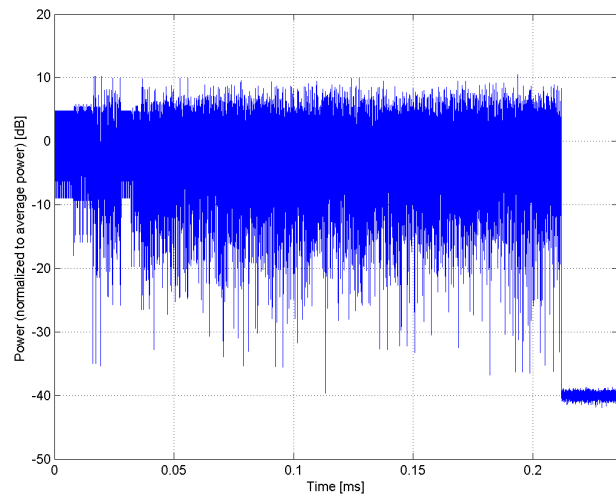
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10636-AAE

PAR: ¹ **8.83 dB**
MIF: ² **-5.56 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

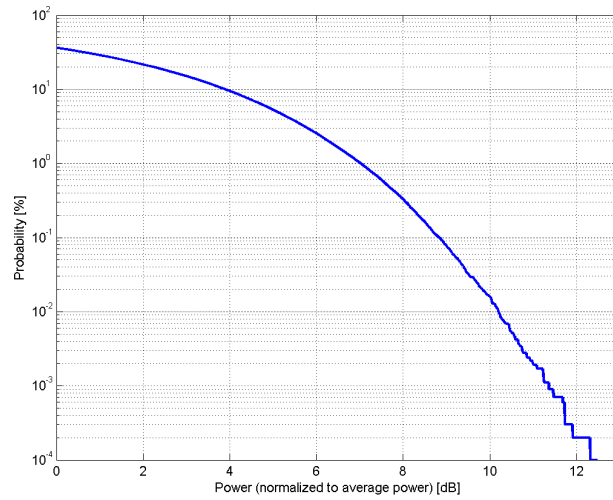
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 0
Number of spatial streams: 1
MPDU length: 32768

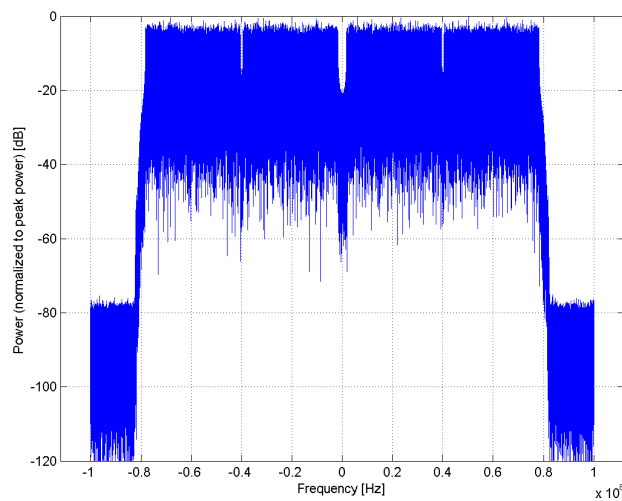
Bandwidth: 160.0 MHz
Integration Time: 5.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

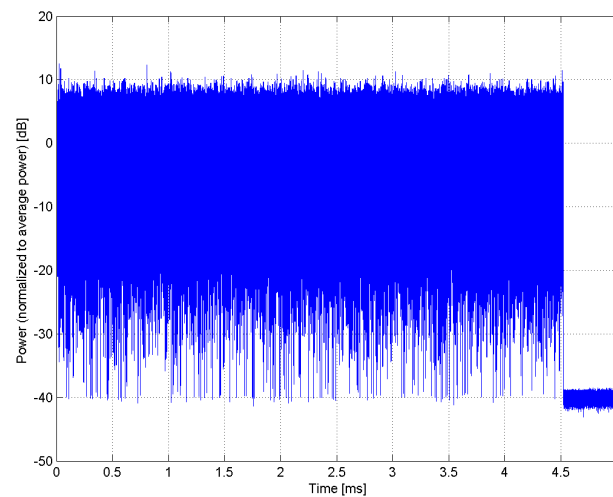
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10637-AAE

PAR: ¹ **8.79 dB**
MIF: ² **-5.61 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

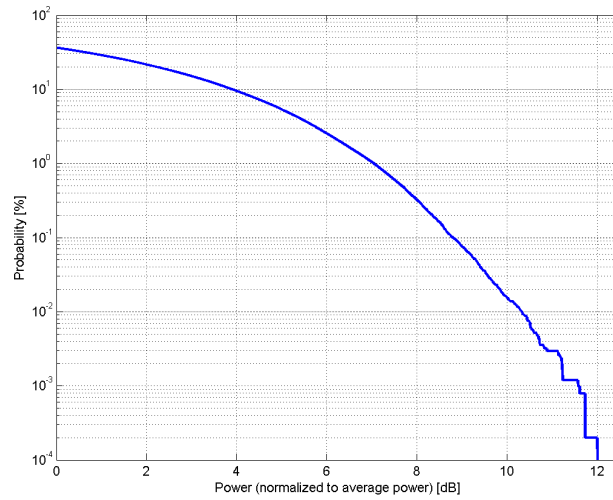
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 1
Number of spatial streams: 1
MPDU length: 32768

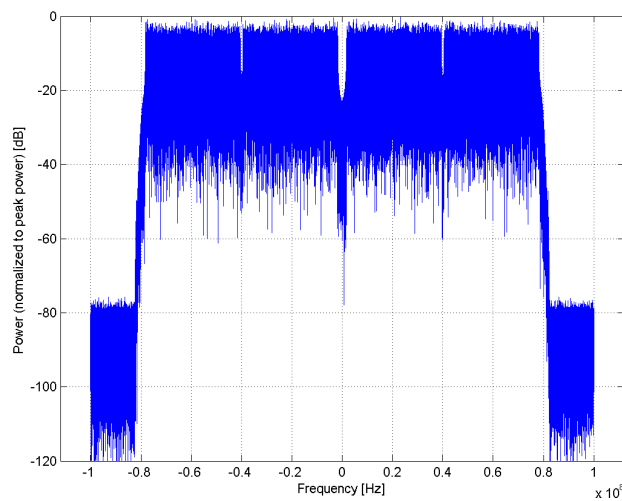
Bandwidth: 160.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

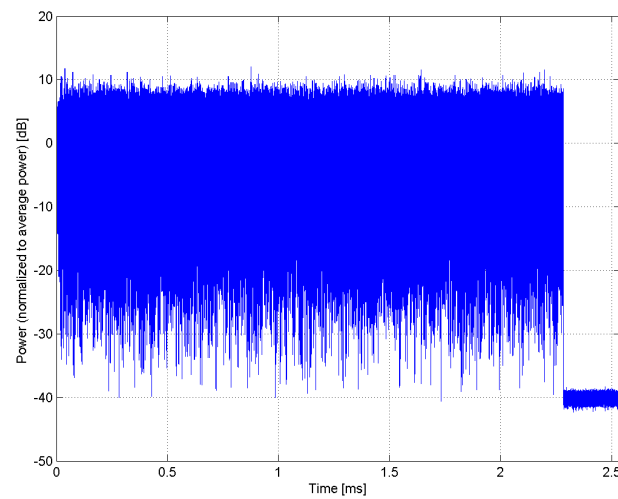
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10638-AAE

PAR: ¹ **8.86 dB**
MIF: ² **-5.84 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

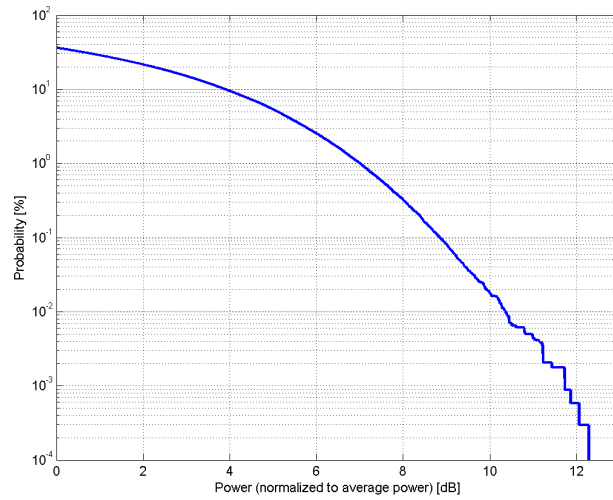
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 2
Number of spatial streams: 1
MPDU length: 32768

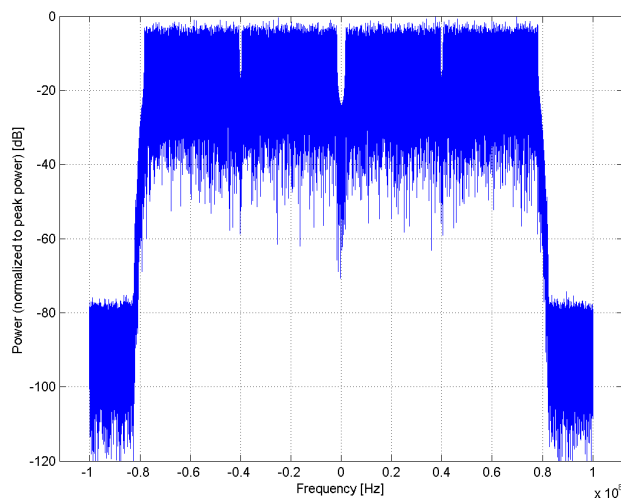
Bandwidth: 160.0 MHz
Integration Time: 1.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

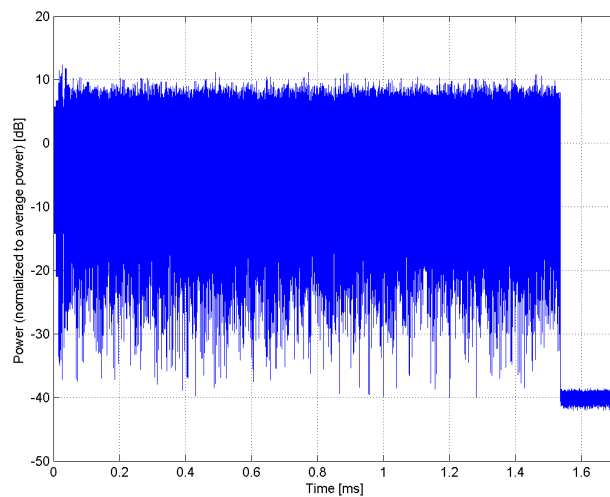
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10639-AAE

PAR: ¹ **8.85 dB**
MIF: ² **-6.13 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

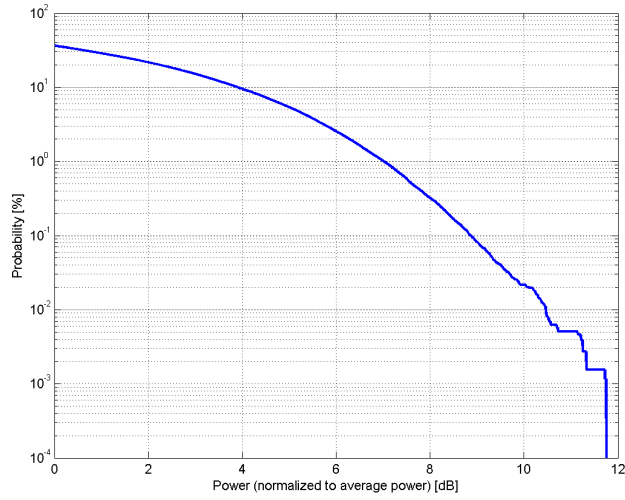
Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 3
Number of spatial streams: 1
MPDU length: 32768

Bandwidth: 160.0 MHz

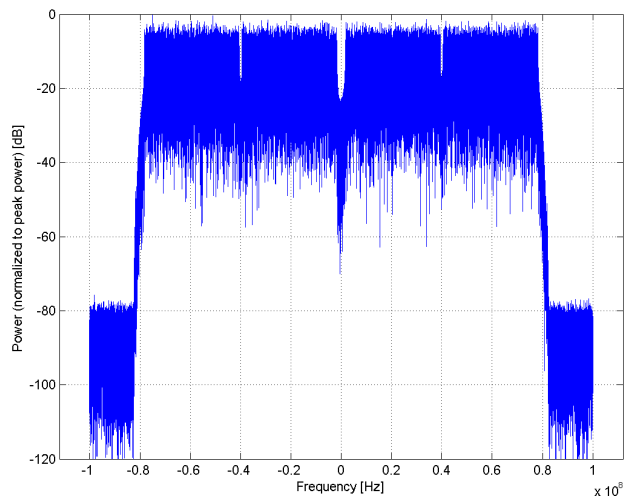
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

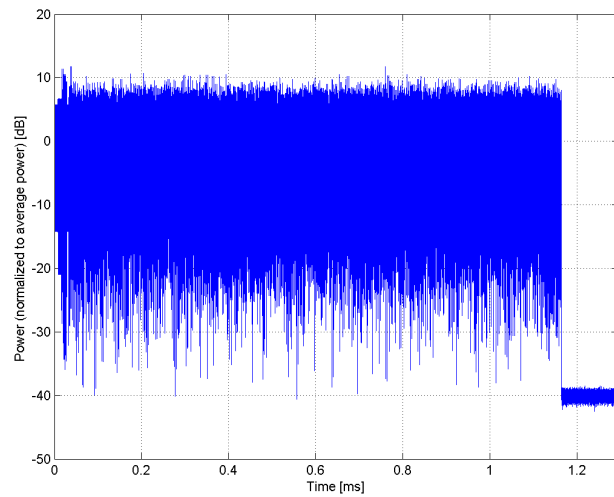
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10640-AAE

PAR: ¹ **8.98 dB**
MIF: ² **-6.67 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 16-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

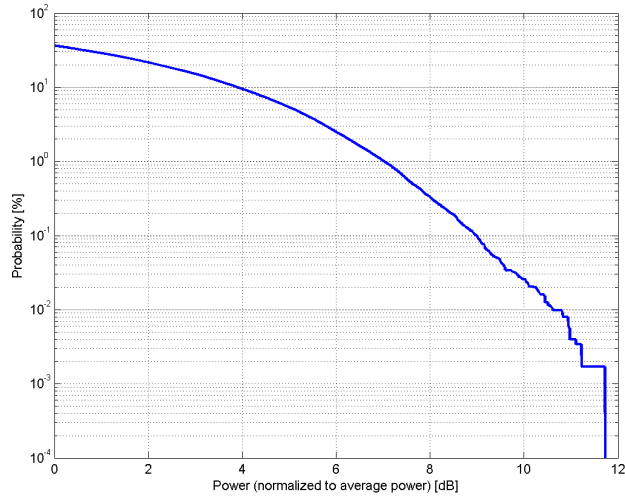
Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 4
Number of spatial streams: 1
MPDU length: 32768

Bandwidth: 160.0 MHz

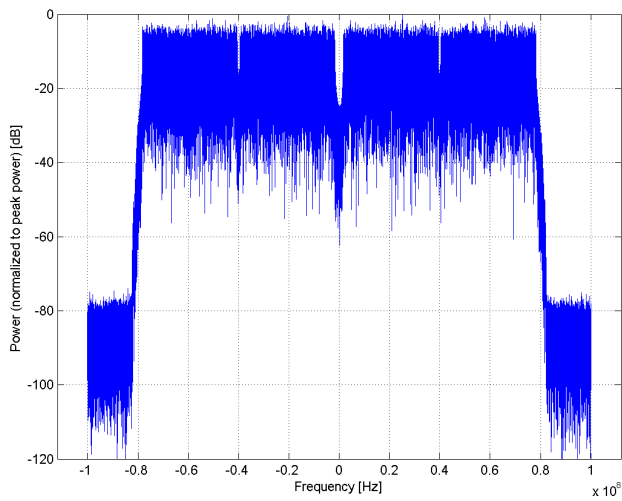
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

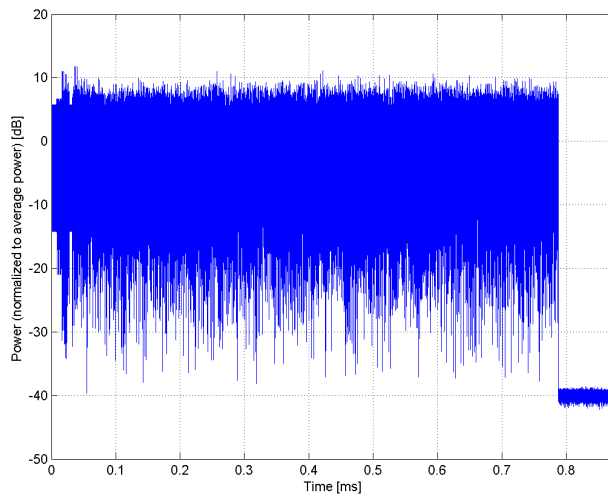
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10641-AAE

PAR: ¹ **9.06 dB**
MIF: ² **-7.18 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

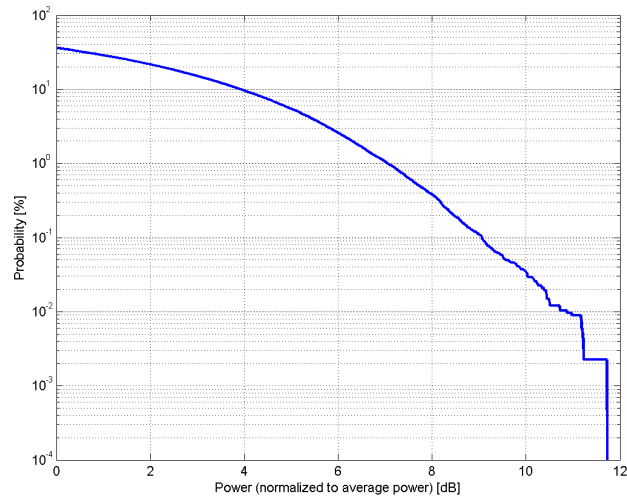
Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 5
Number of spatial streams: 1
MPDU length: 32768

Bandwidth: 160.0 MHz

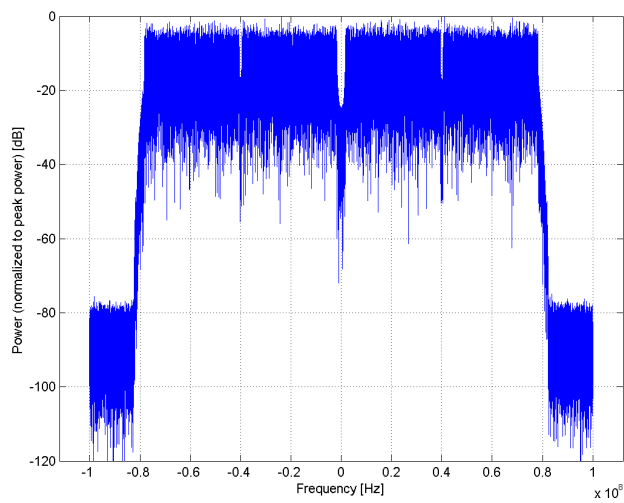
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

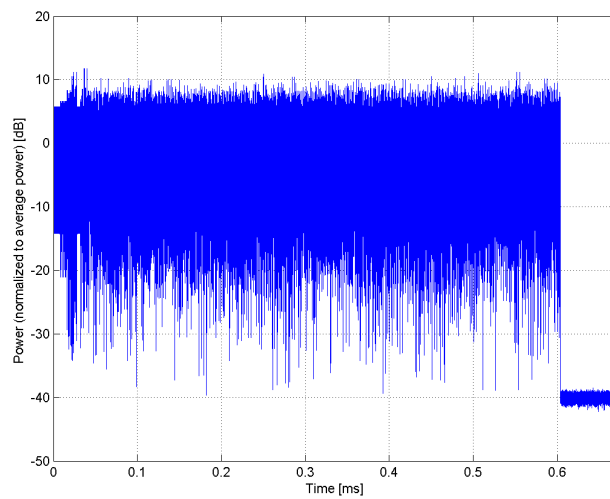
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10642-AAE

PAR: ¹ **9.06 dB**
MIF: ² **-7.38 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

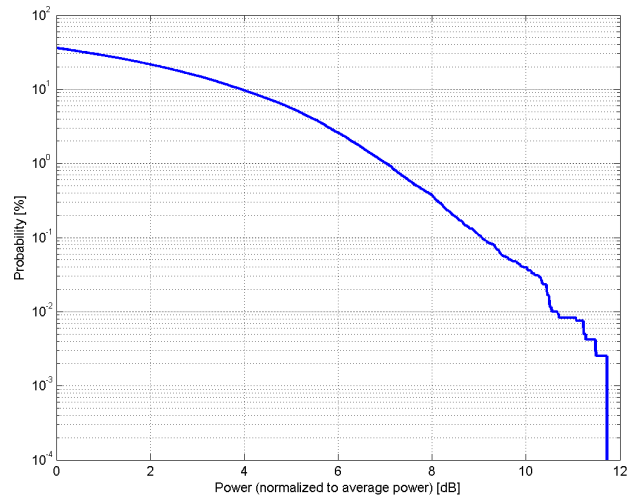
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 6
Number of spatial streams: 1
MPDU length: 32768

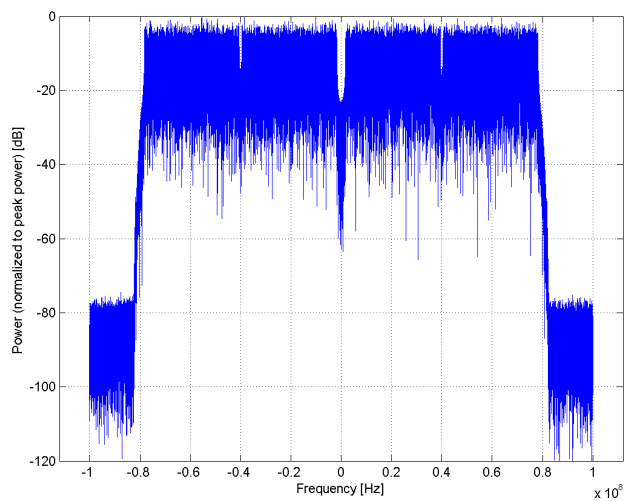
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

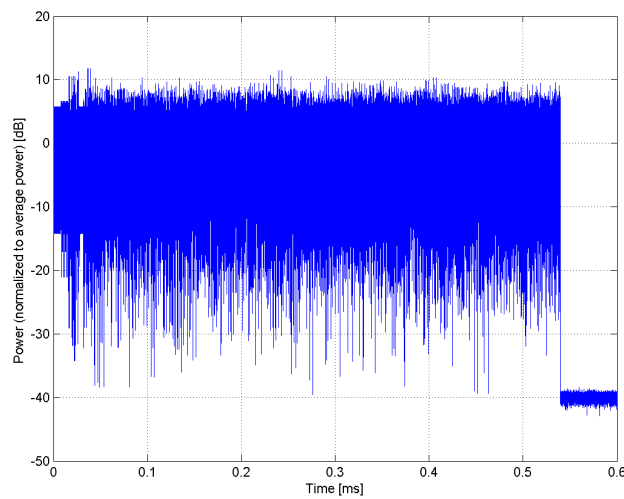
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10643-AAE

PAR: ¹ **8.89 dB**
MIF: ² **-7.65 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

Category: Random amplitude modulation

Modulation: 64-QAM

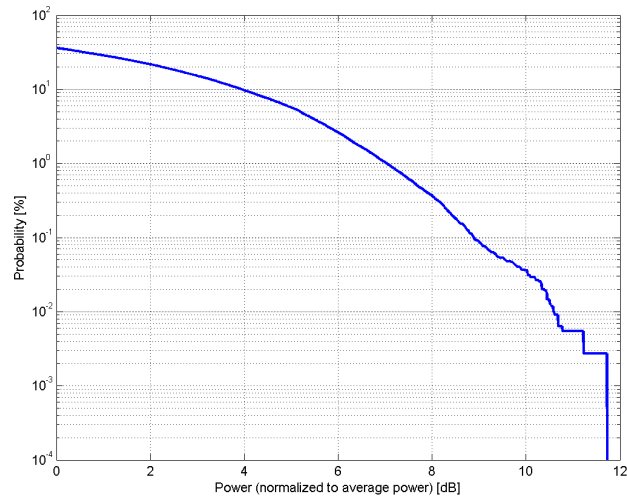
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 7
Number of spatial streams: 1
MPDU length: 32768

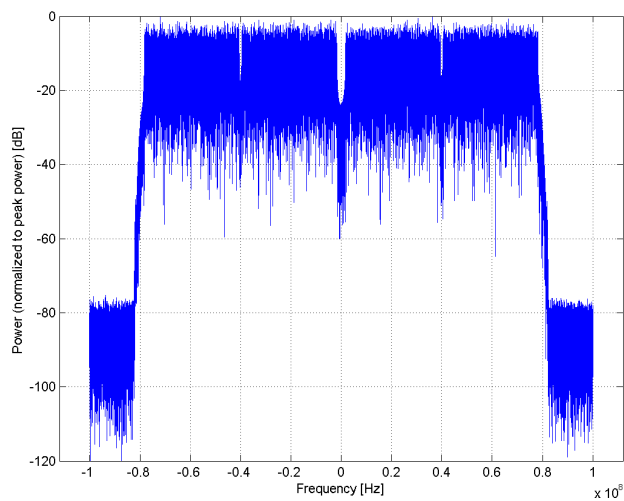
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

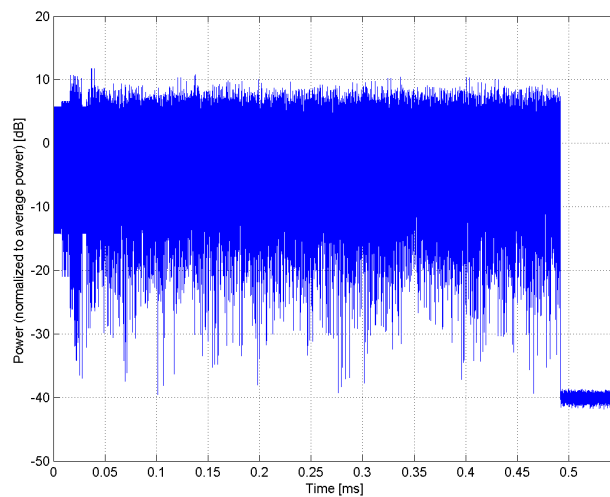
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10644-AAE

PAR: ¹ **9.05 dB**
MIF: ² **-7.99 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

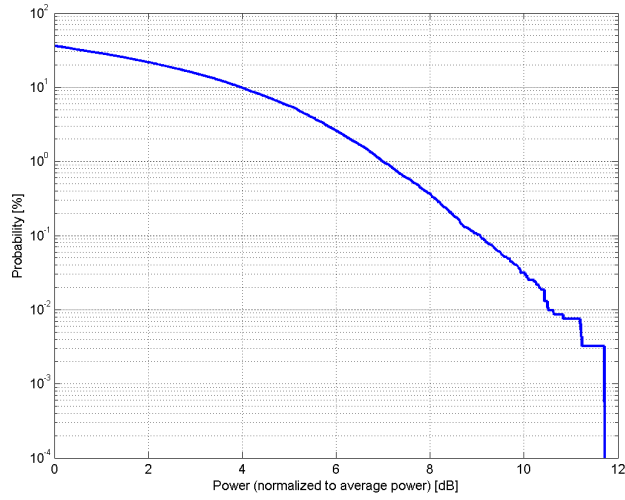
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 8
Number of spatial streams: 1
MPDU length: 32768

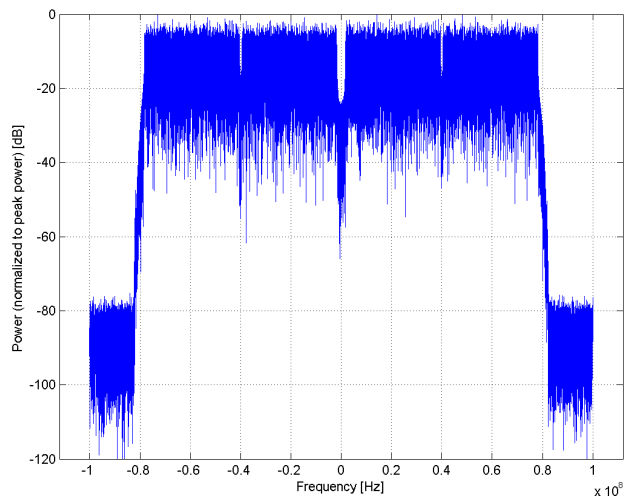
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

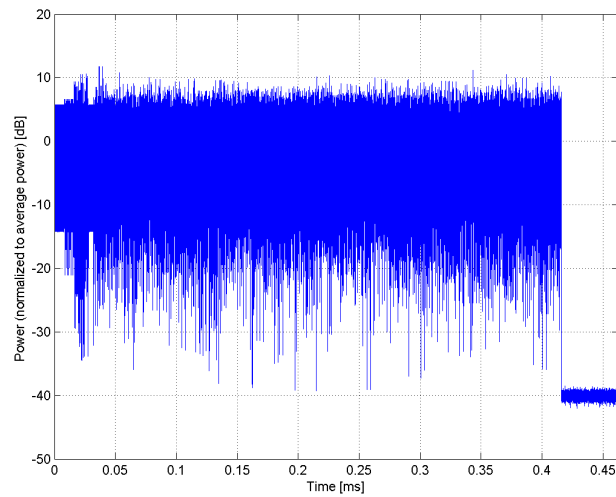
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10645-AAE

PAR: ¹ **9.11 dB**
MIF: ² **-8.26 dB**

Standard Reference: IEEE 802.11-2013
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01

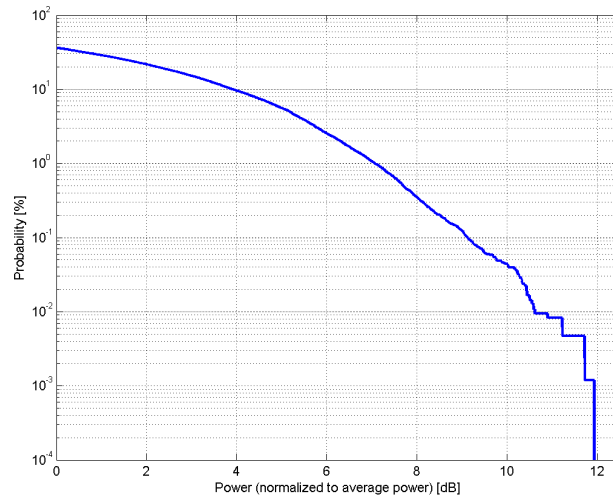
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty cycle: 90%
MCS: 9
Number of spatial streams: 1
MPDU length: 32768

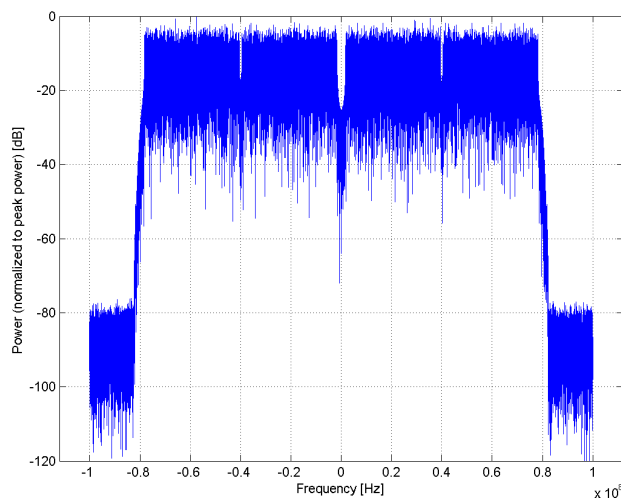
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

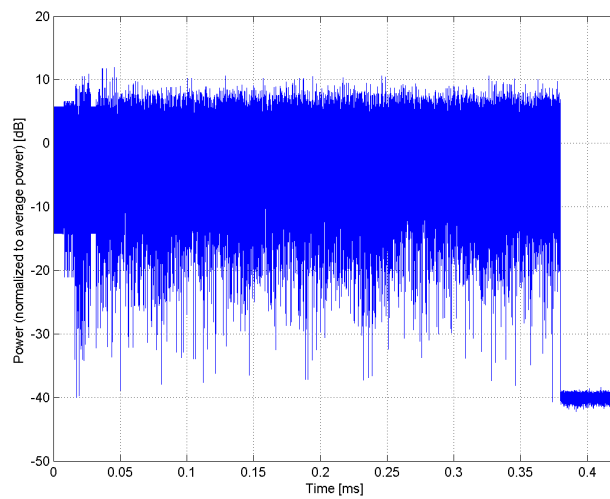
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)**

Group: LTE-TDD
UID: 10646-AAH

PAR: ¹ **11.96 dB**
MIF: ² **1.50 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

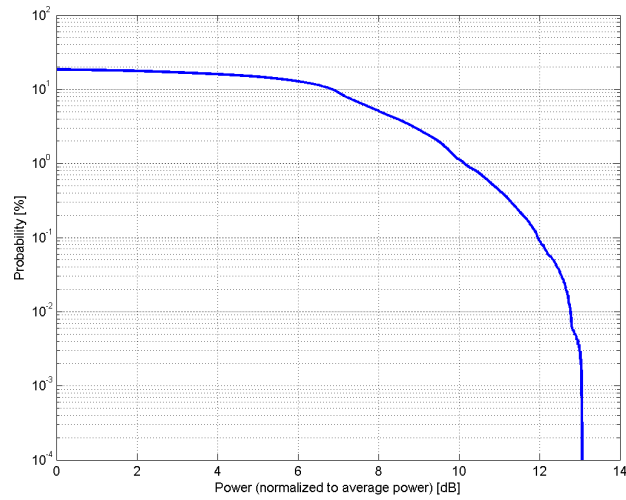
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 2
Special Subframe configuration: 4
Number of Frames: 2
Settings for UL Subframe: 2,7
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 12
Data Type: PN9fix

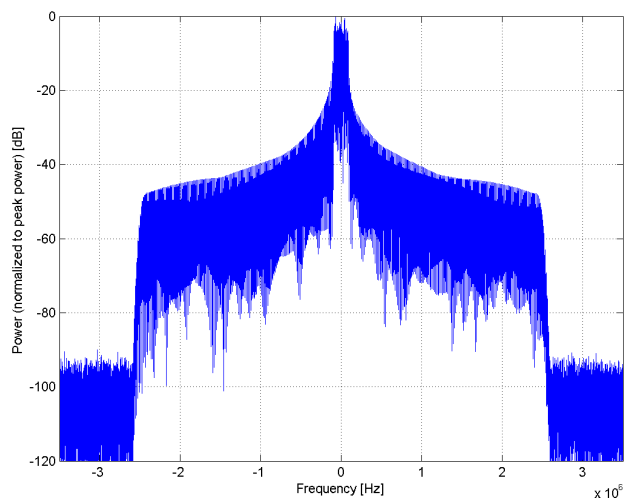
Bandwidth: 5.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

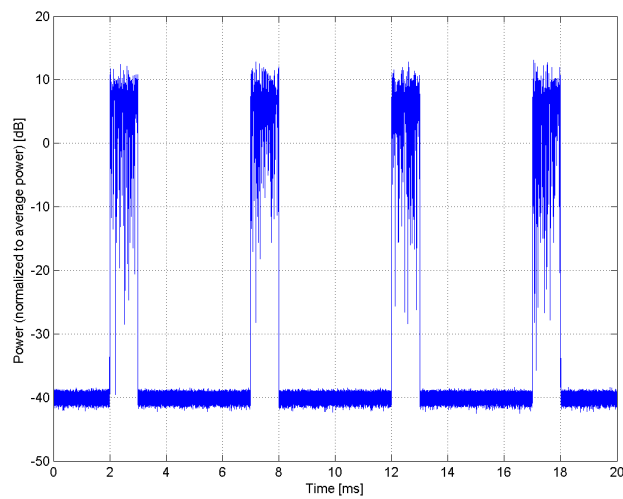
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)**

Group: LTE-TDD
UID: 10647-AAG

PAR: ¹ **11.96 dB**
MIF: ² **1.50 dB**

Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

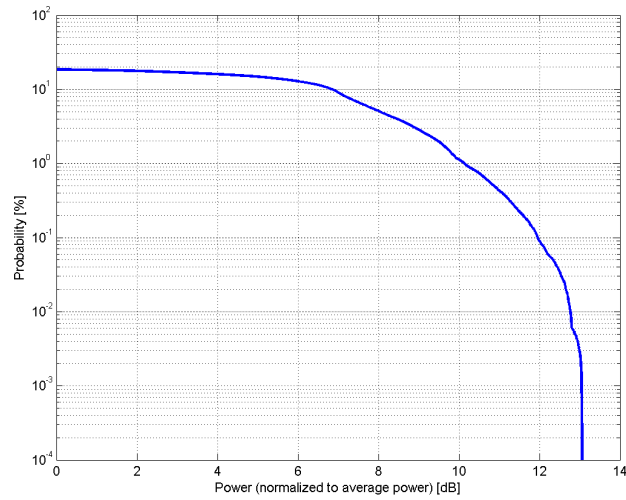
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 2
Special Subframe configuration: 7
Number of Frames: 2
Settings for UL Subframe: 2,7
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 1
Start Number of RB: 50
Data Type: PN9fix

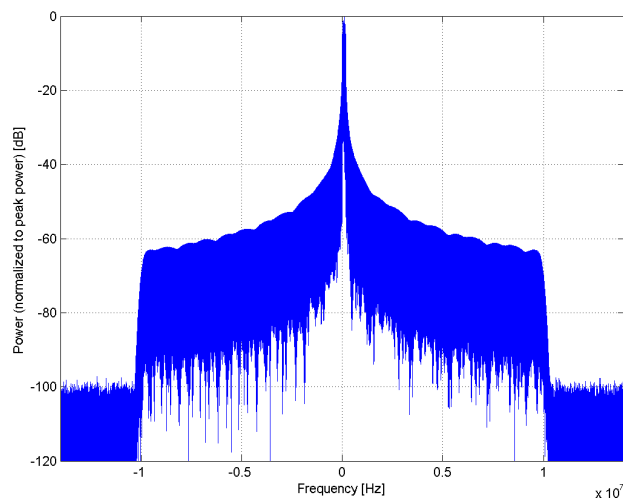
Bandwidth: 20.0 MHz
Integration Time: 20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

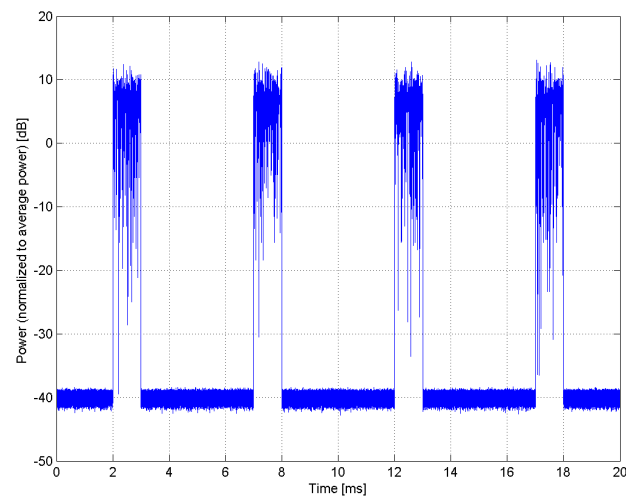
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



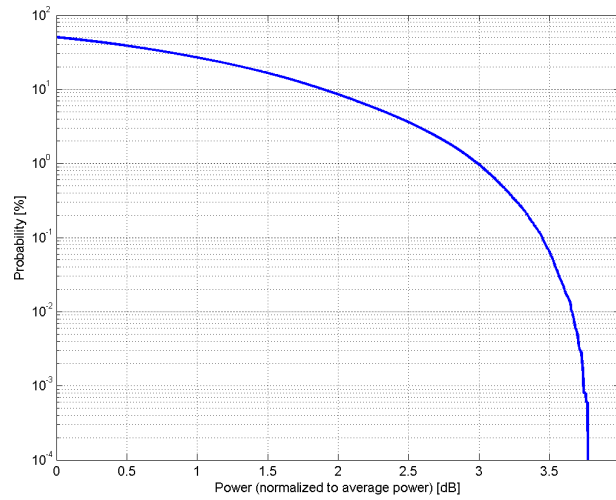
Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

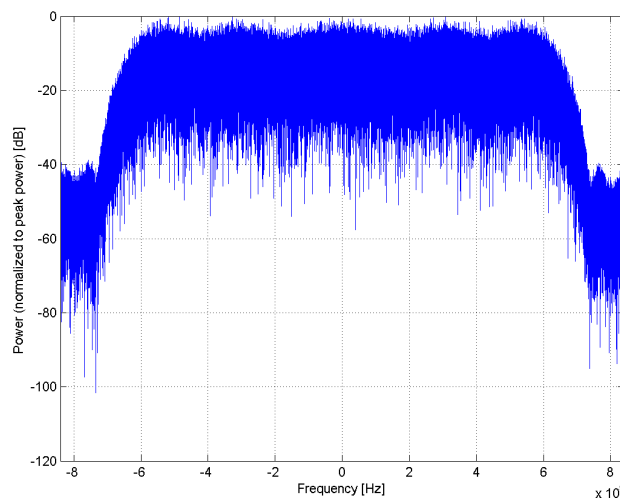
| | |
|-------------------------|--|
| Name: | CDMA2000 (1x Advanced) |
| Group: | CDMA2000 |
| UID: | 10648-AAA |
| PAR: ¹ | 3.45 dB |
| MIF: ² | -19.86 dB |
| Standard Reference: | FCC OET KDB 941225 D01 3G SAR Procedures v03r01 |
| Category: | Random amplitude modulation |
| Modulation: | - |
| Frequency Band: | Band Class 0 (815.0-849.0 MHz, 20220) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187) |
| Detailed Specification: | Service Option 75 (SO75) Uplink RC8 Downlink RC11 |
| Bandwidth: | 1.2 MHz |
| Integration Time: | 100.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

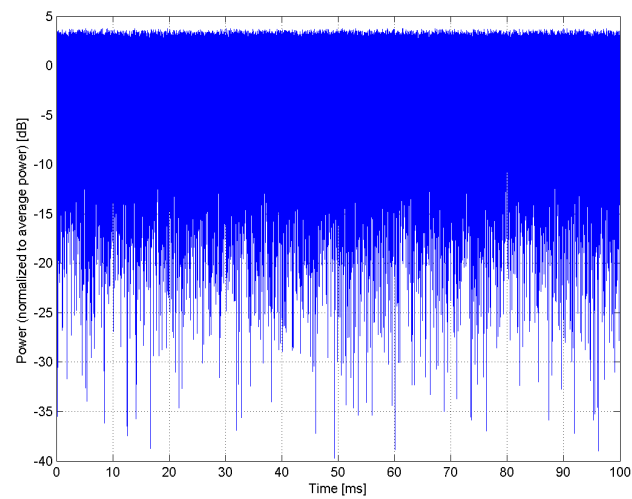
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-TDD
UID: 10652-AAF

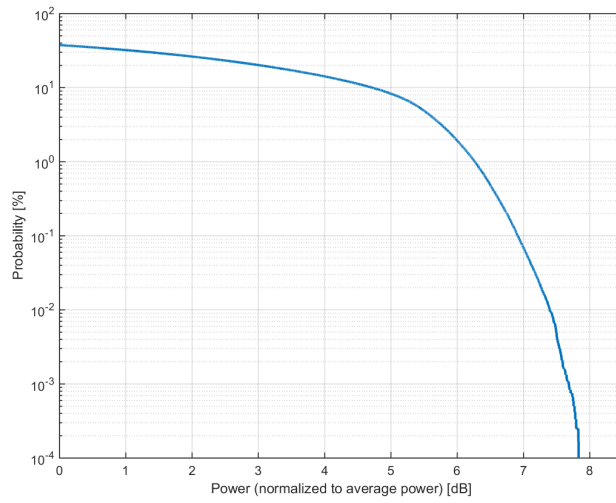
PAR: ¹ **6.91 dB**
MIF: ² **-5.16 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band:
Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

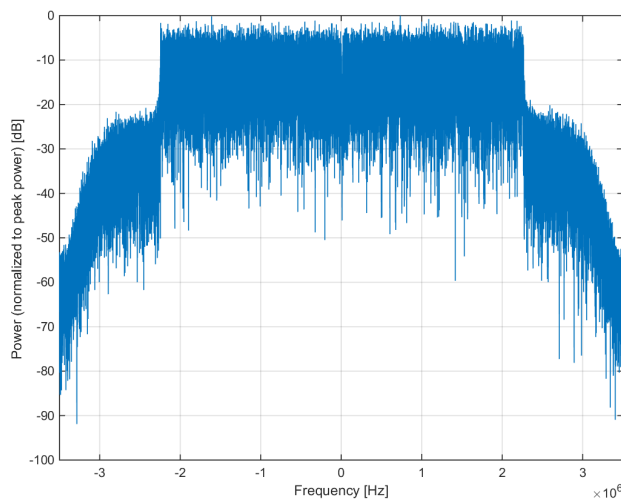
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 5 MHz Clipping 44 %
Bandwidth: 5.0 MHz
Integration Time: 30.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

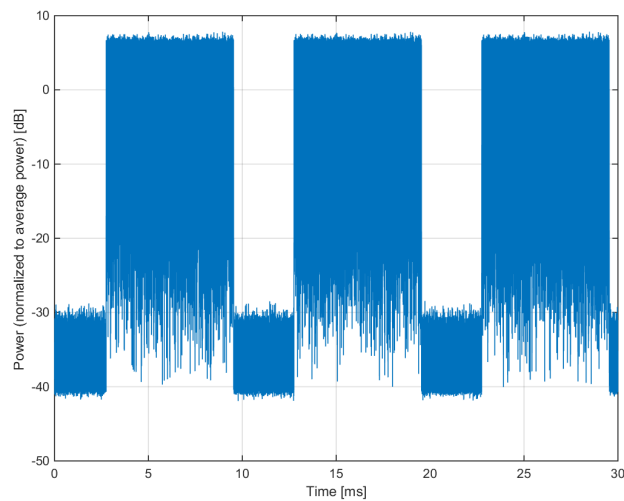
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-TDD
UID: 10653-AAF

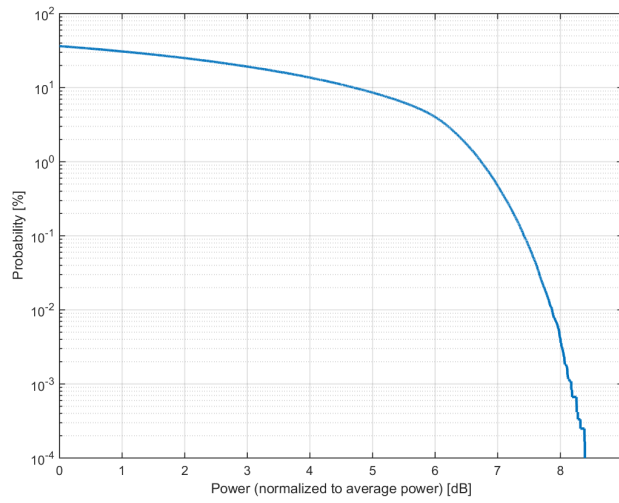
PAR: ¹ **7.42 dB**
MIF: ² **-5.10 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

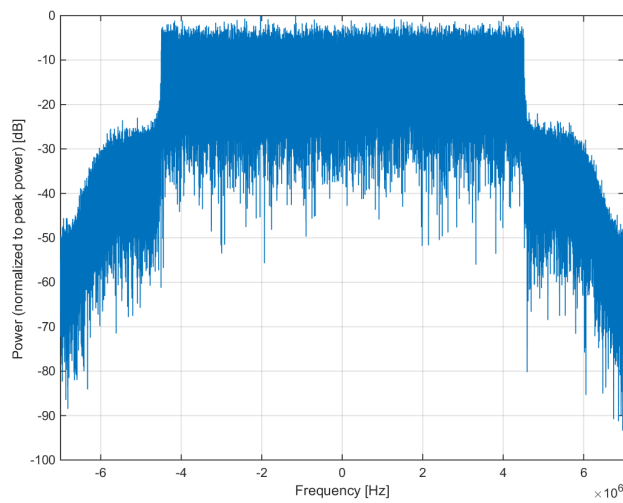
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 10 MHz Clipping 44 %
Bandwidth: 10.0 MHz
Integration Time: 30.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

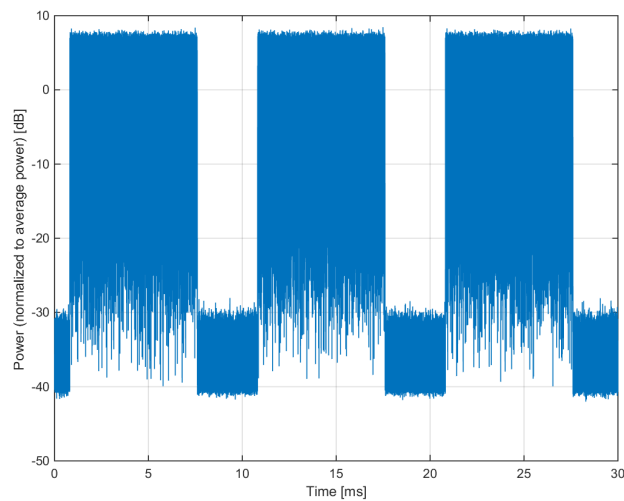
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-TDD
UID: 10654-AAE

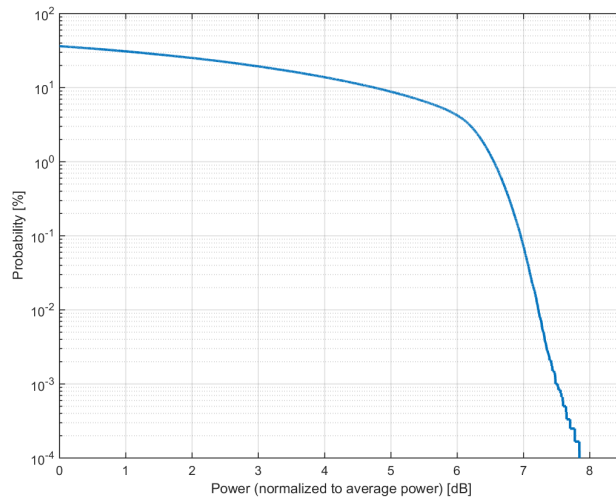
PAR: ¹ **6.96 dB**
MIF: ² **-5.07 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band:
Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

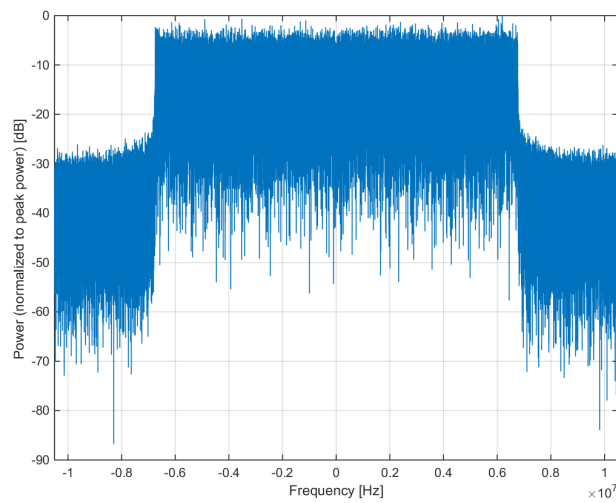
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 15 MHz Clipping 44 %
Bandwidth: 15.0 MHz
Integration Time: 30.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

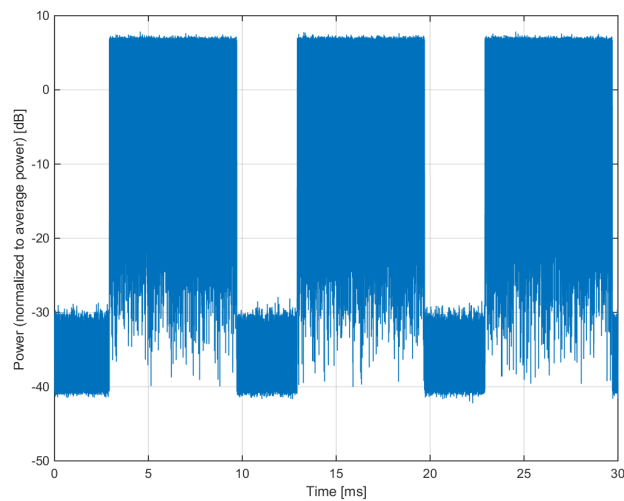
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)**

Group: LTE-TDD
UID: 10655-AAF

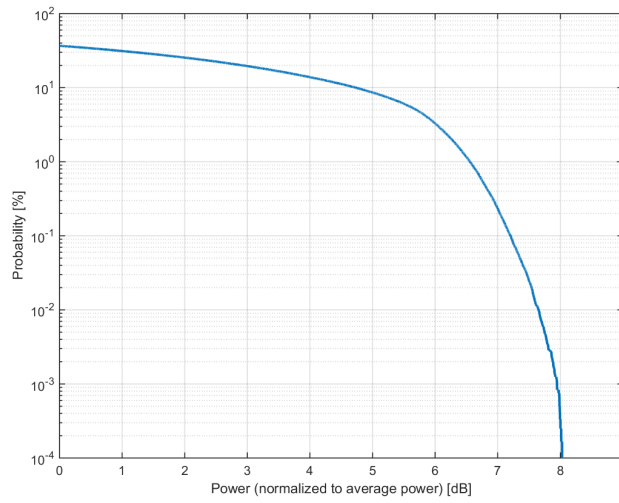
PAR: ¹ **7.21 dB**
MIF: ² **-5.05 dB**

Standard Reference: TS 36.141 V11.4
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 46 (5150.0 - 5925.0 MHz)
Band 47 (5855.0 - 5925.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 49 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Validation band (0.0 - 6000.0 MHz)

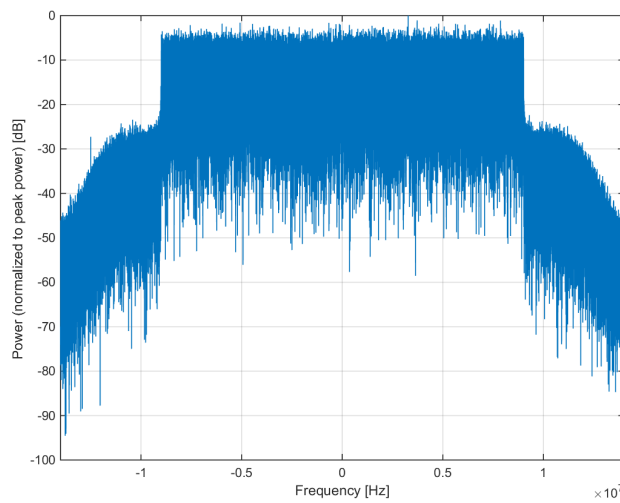
Detailed Specification: E-UTRA Test Model 3.1 (E-TM3.1) Bandwidth: 20 MHz Clipping 44 %
Bandwidth: 20.0 MHz
Integration Time: 30.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

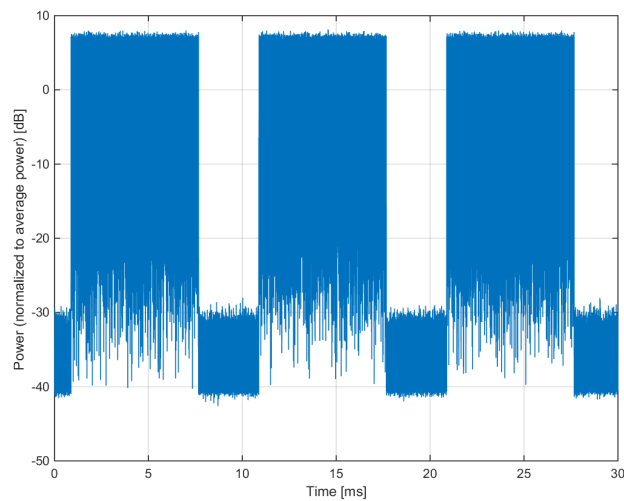
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



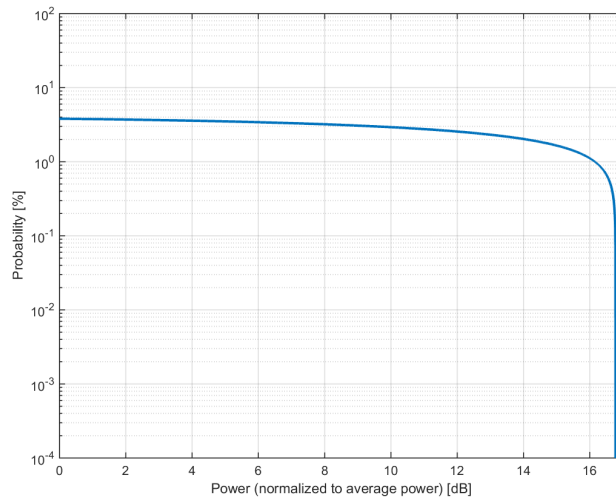
Time Domain

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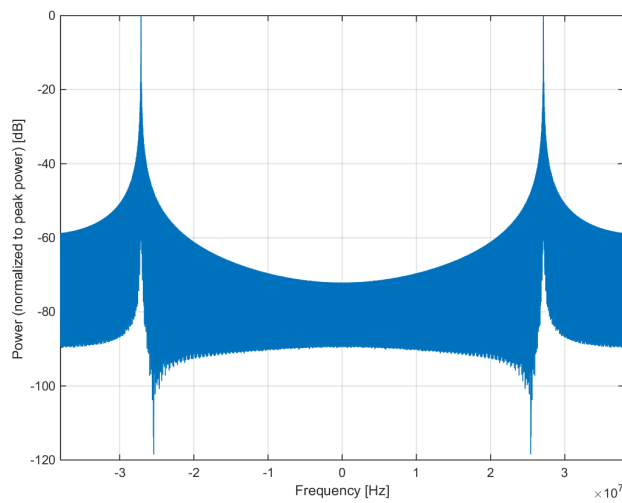
| | |
|-------------------------|--|
| Name: | 27.12MHz Sinewave, 4.2% Duty Cycle |
| Group: | MRI |
| UID: | 10656-AAB |
| PAR: ¹ | 16.77 dB |
| MIF: ² | 2.54 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | CW |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | 27.12MHz Sinewave, 42us on, 1ms period |
| Bandwidth: | 54.2MHz |
| Integration Time: | 1.0ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

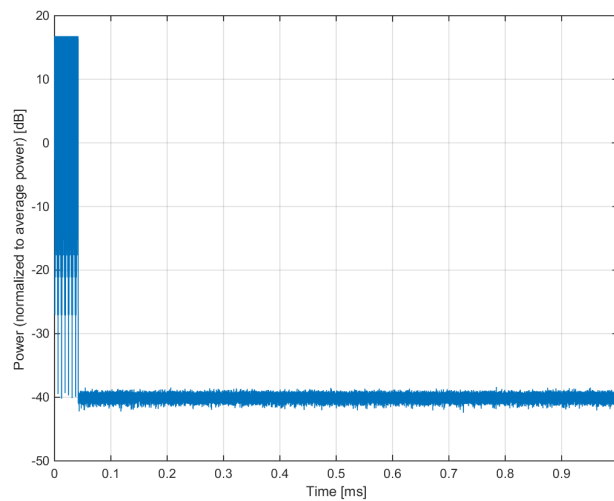
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



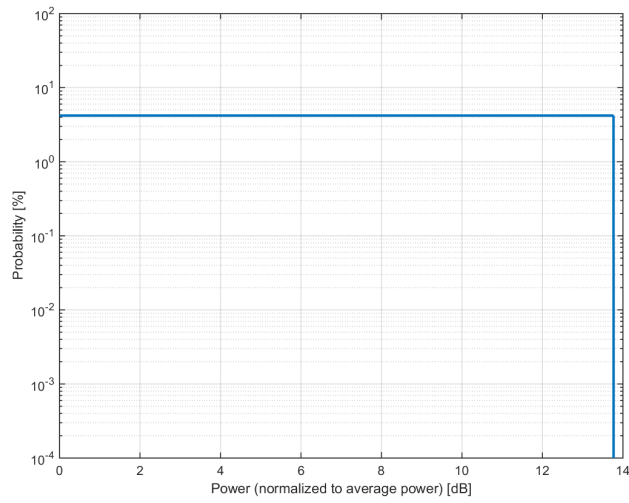
Time Domain

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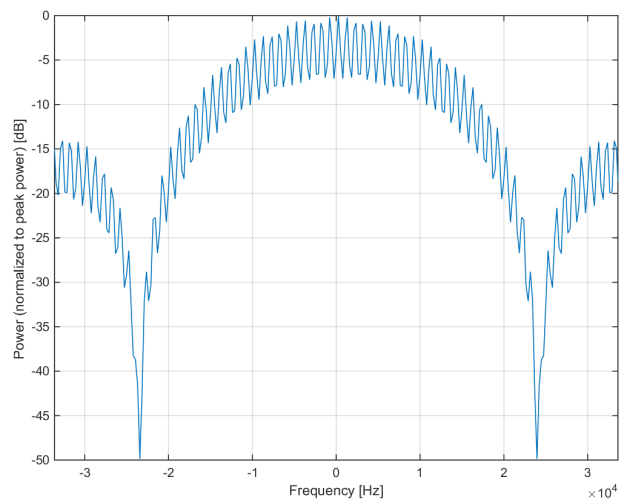
| | |
|-------------------------|--|
| Name: | Pulse, 42us on, 1ms period |
| Group: | MRI |
| UID: | 10657-AAA |
| PAR: ¹ | 13.77 dB |
| MIF: ² | 3.05 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | CW |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Pulse, 42us on, 1ms period |
| Bandwidth: | 0.0MHz |
| Integration Time: | 1.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

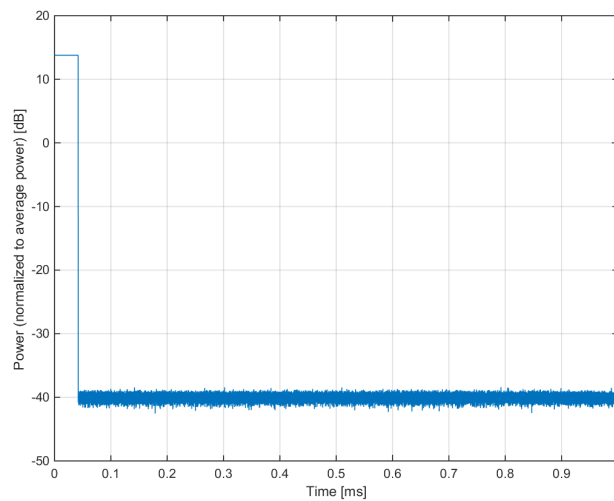
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

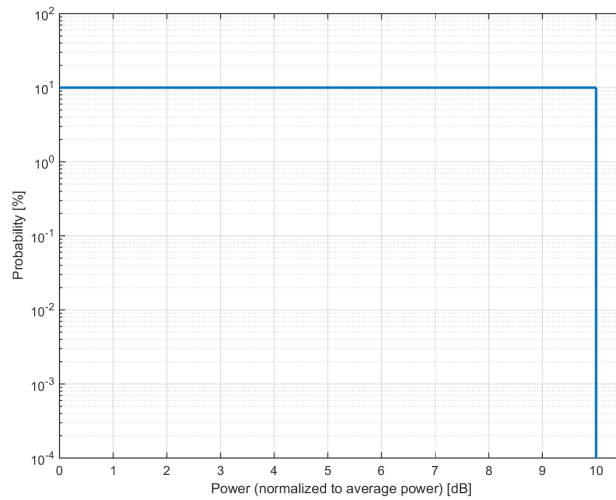
Calibration Laboratory of Schmid & Partner Engineering AG

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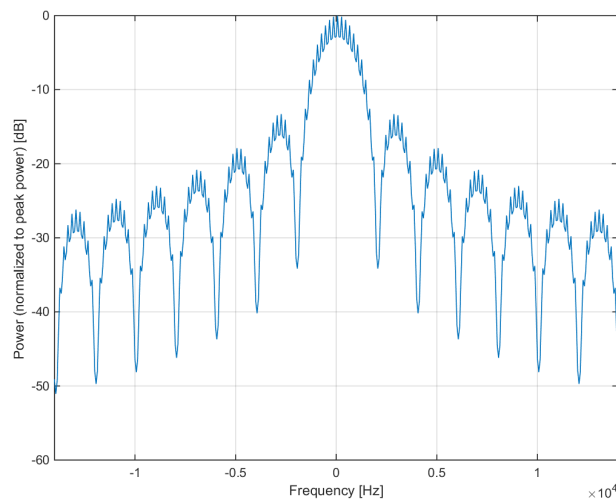
| | |
|-------------------------|--|
| Name: | Pulse Waveform (200Hz, 10%) |
| Group: | Test |
| UID: | 10658-AAB |
| PAR: ¹ | 10.00 dB |
| MIF: ² | 4.05 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Modulation Frequency: 200Hz Duty Cycle: 10% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

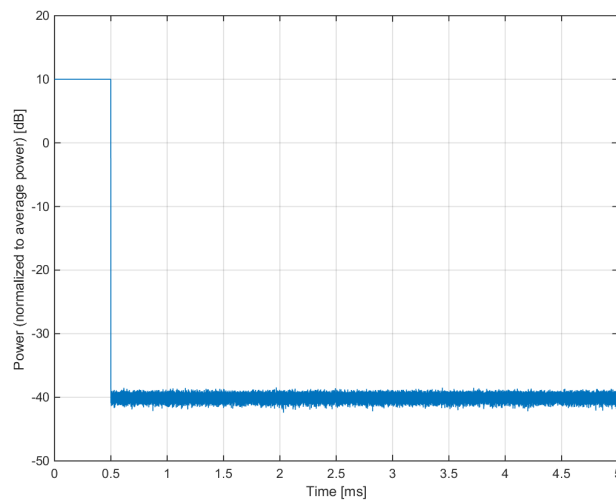
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (200Hz, 20%)**

Group: Test
UID: 10659-AAB

PAR: ¹ **6.99 dB**
MIF: ² **1.53 dB**

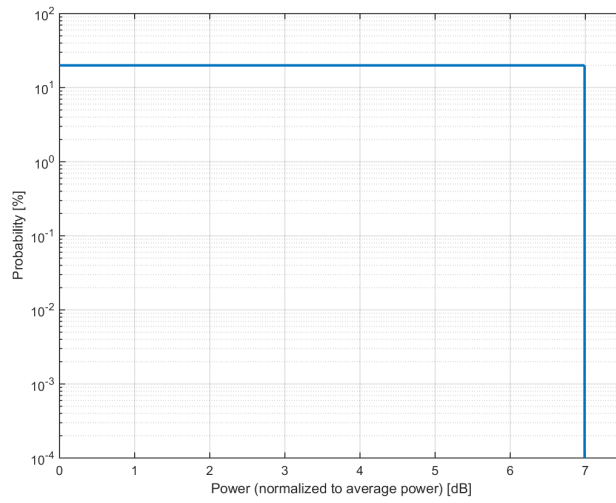
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
D300 (300.0 MHz)
D400 (400.0 MHz)
D450 (450.0 MHz)
D600V3 (600.0 MHz)
D750 (750.0 MHz)
D835 (835.0 MHz)
D900 (900.0 MHz)
D1450 (1450.0 MHz)
D1500 (1500.0 MHz)
D1640 (1640.0 MHz)
D1750 (1750.0 MHz)
D1765 (1765.0 MHz)
D1800 (1800.0 MHz)
D1900 (1900.0 MHz)
D1950 (1950.0 MHz)
D2000 (2000.0 MHz)
D2100 (2100.0 MHz)
D2300 (2300.0 MHz)
D2450 (2450.0 MHz)
D2550V2 (2250.0 MHz)
D2600 (2600.0 MHz)
D3000 (3000.0 MHz)
D3300V2 (3300.0 MHz)
D3500 (3500.0 MHz)
D3700 (3700.0 MHz)
D5GHz (5000.0 - 6000.0 MHz)
CD700 (700.0 MHz)
CD835 (835.0 MHz)
CD1880 (1880.0 MHz)
CD2150 (2150.0 MHz)
CD2450 (2450.0 MHz)
CD2600V3 (2600.0 MHz)
CD3500V3 (3500.0 MHz)
CD5500V3 (5500.0 MHz)
ITD700 (700.0 MHz)
ITD835 (835.0 MHz)
ITD1880 (1880.0 MHz)
ITD2150 (2150.0 MHz)
ITD2600 (2600.0 MHz)
ITD3500 (3500.0 MHz)
ITD5500 (5000.0 - 5900.0 MHz)
CLA30 (30.0 MHz)
CLA64 (64.0 MHz)
CLA128 (128.0 MHz)
CLA150 (150.0 MHz)
CLA220 (220.0 MHz)
FullSpan (0.0 - 6000.0 MHz)
Validation band (0.0 - 6000.0 MHz)
CLA (9.0 - 19.0 MHz)
CLA6 (4.0 - 9.0 MHz)
D850 (800 - 900 MHz)
D1300 (1250 - 1350 MHz)
D3900 (3850 - 3950 MHz)
D4200 (4150 - 4250 MHz)
D4600 (4550 - 4650 MHz)
D4900 (4850 - 4950 MHz)
D6.5GHz (6450 - 6550 MHz)
D7GHz (6950 - 7050 MHz)
D8GHz (7950 - 8050 MHz)
D9GHz (8950 - 9050 MHz)

Detailed Specification: Modulation Frequency: 200Hz
Duty Cycle: 20%

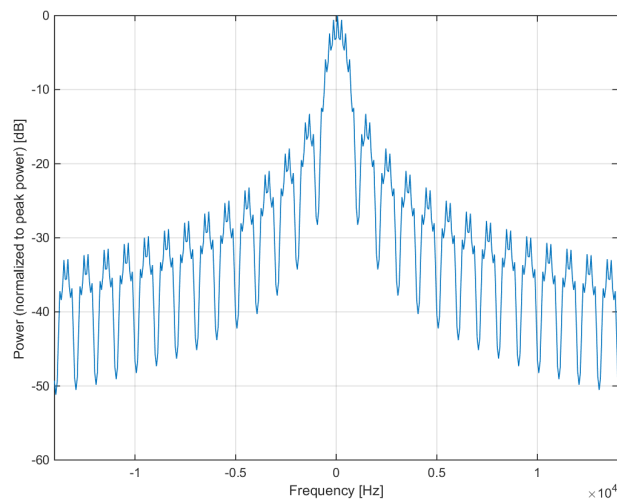
Bandwidth: 0.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

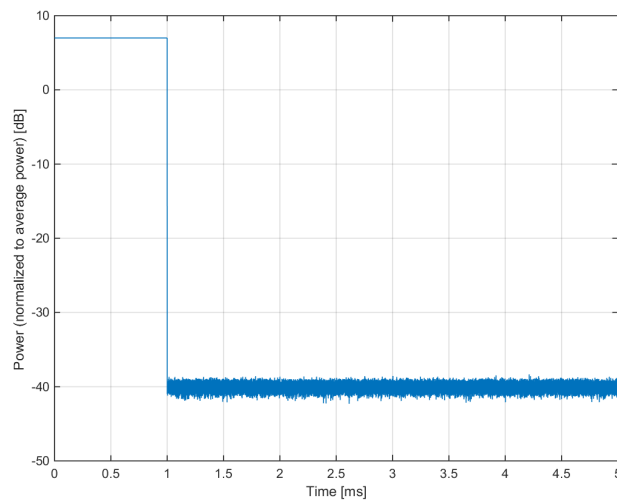
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



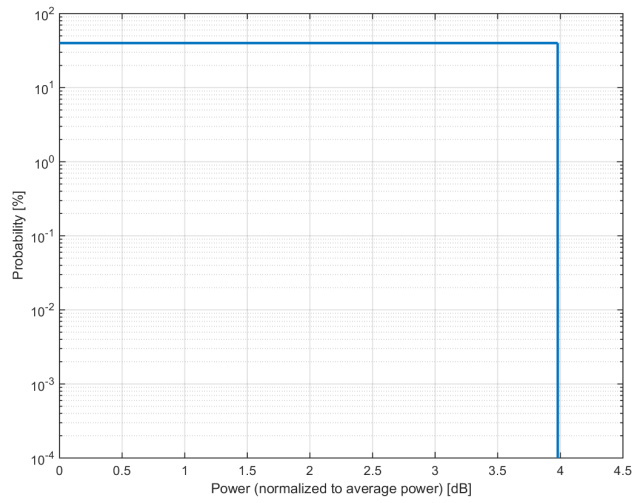
Time Domain

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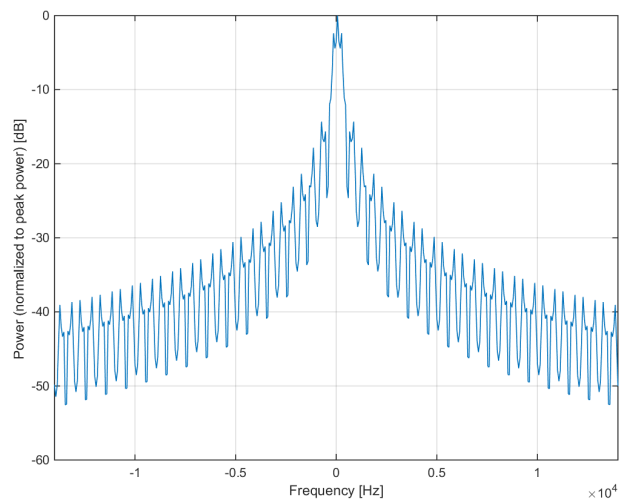
| | |
|-------------------------|--|
| Name: | Pulse Waveform (200Hz, 40%) |
| Group: | Test |
| UID: | 10660-AAB |
| PAR: ¹ | 3.98 dB |
| MIF: ² | -1.62 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Modulation Frequency: 200Hz Duty Cycle: 40% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

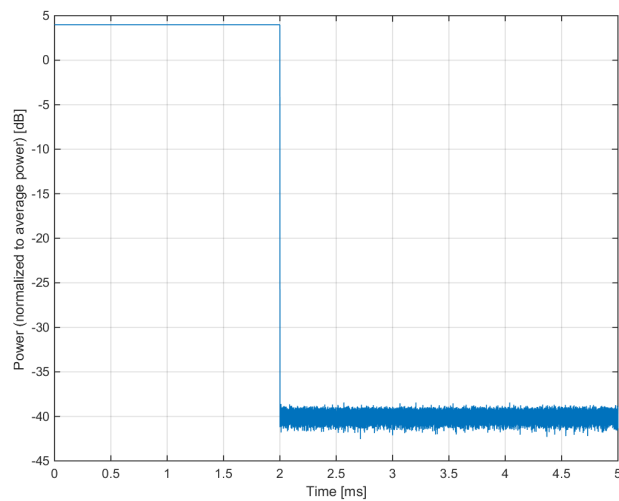
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

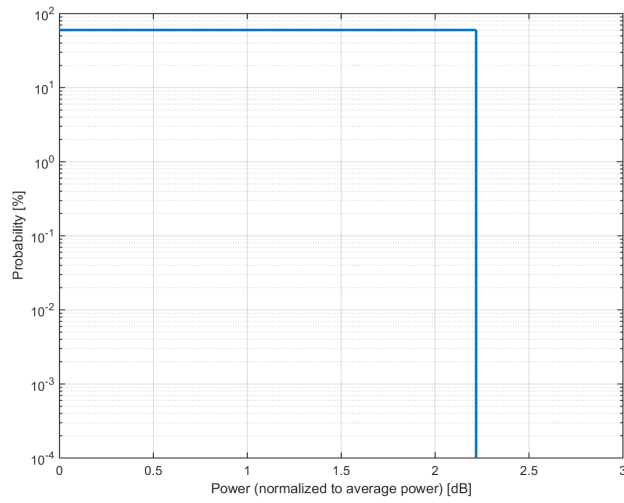
Calibration Laboratory of Schmid & Partner Engineering AG

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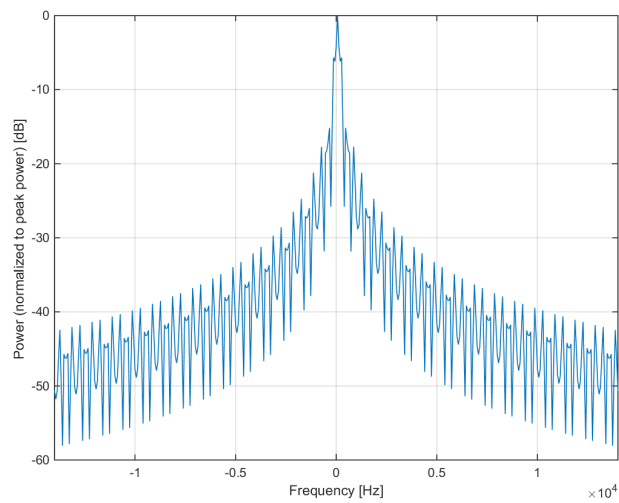
| | |
|-------------------------|--|
| Name: | Pulse Waveform (200Hz, 60%) |
| Group: | Test |
| UID: | 10661-AAB |
| PAR: ¹ | 2.22 dB |
| MIF: ² | -3.39 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Modulation Frequency: 200Hz Duty Cycle: 60% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

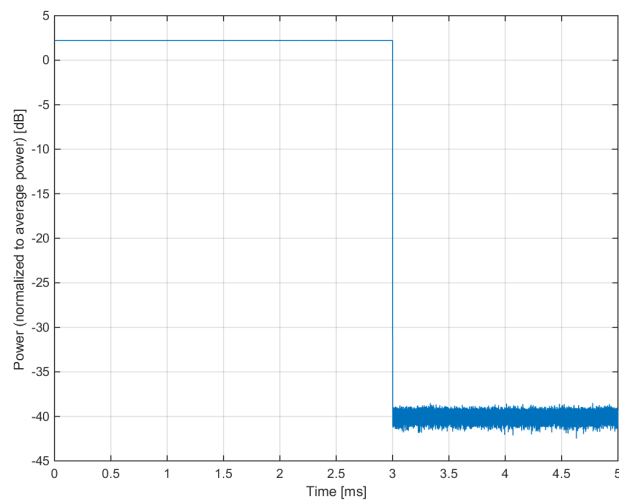
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

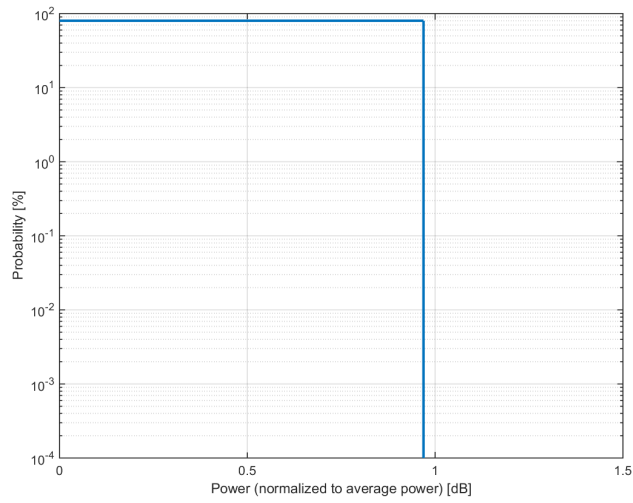
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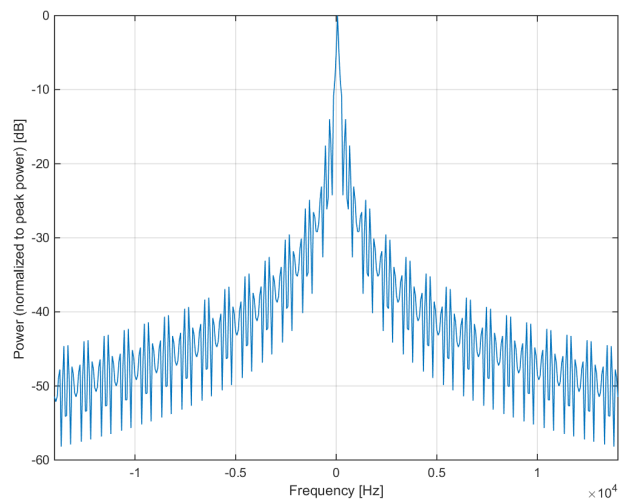
| | |
|-------------------------|--|
| Name: | Pulse Waveform (200Hz, 80%) |
| Group: | Test |
| UID: | 10662-AAB |
| PAR: ¹ | 0.97 dB |
| MIF: ² | -4.50 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Modulation Frequency: 200Hz Duty Cycle: 80% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

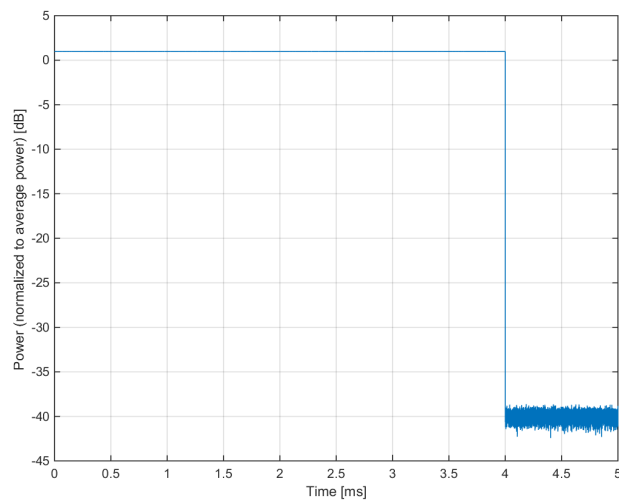
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



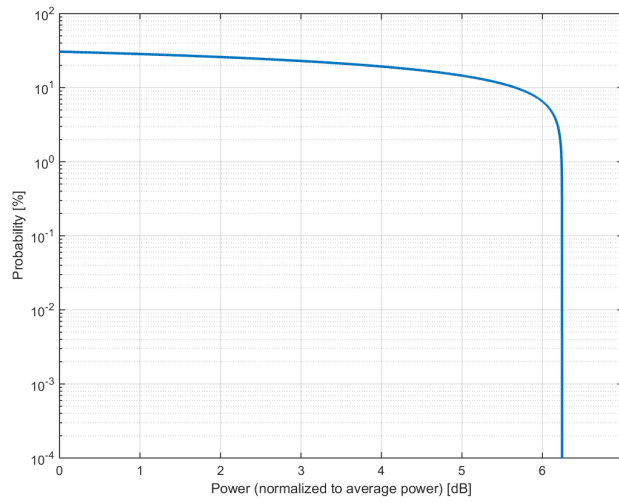
Time Domain

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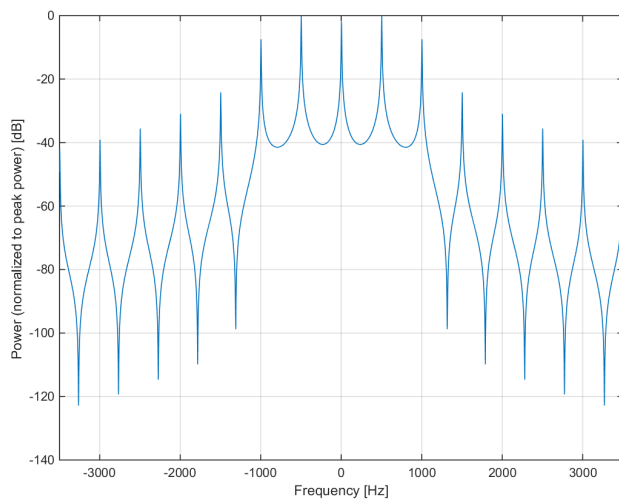
| | |
|-------------------------|--|
| Name: | MITS (2pi Sinc, 2ms, 2ms) |
| Group: | MRI |
| UID: | 10663-AAA |
| PAR: ¹ | 6.24 dB |
| MIF: ² | 0.62 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 2 Pi Repetition Rate: 500 Hz Duty Cycle: 100% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 2.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

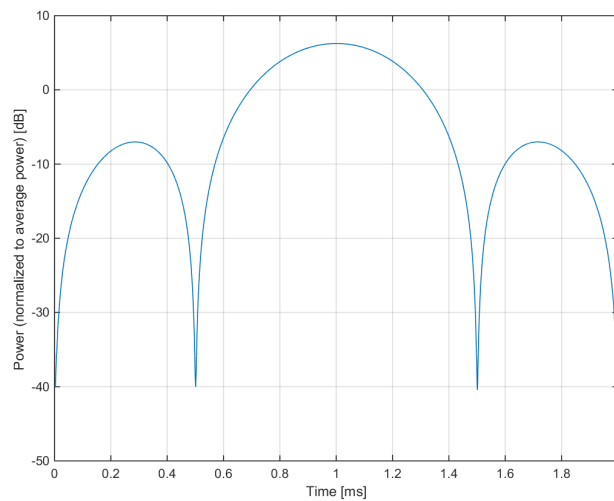
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



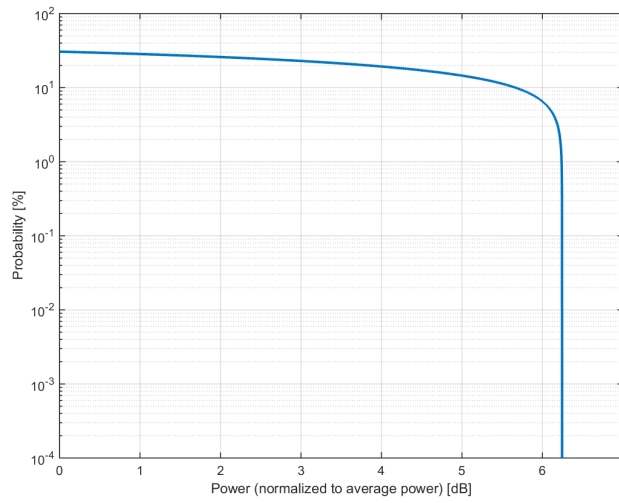
Time Domain

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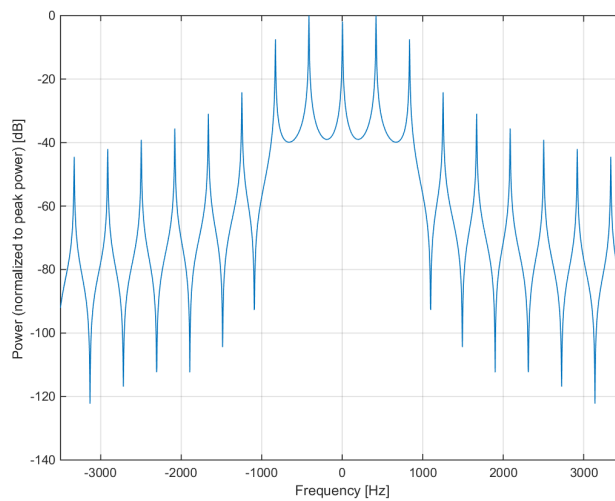
| | |
|-------------------------|--|
| Name: | MITS (2pi Sinc, 2.4ms, 2.4ms) |
| Group: | MRI |
| UID: | 10664-AAA |
| PAR: ¹ | 6.24 dB |
| MIF: ² | 0.46 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 2 Pi Repetition Rate: 417 Hz Duty Cycle: 100% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 2.4 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

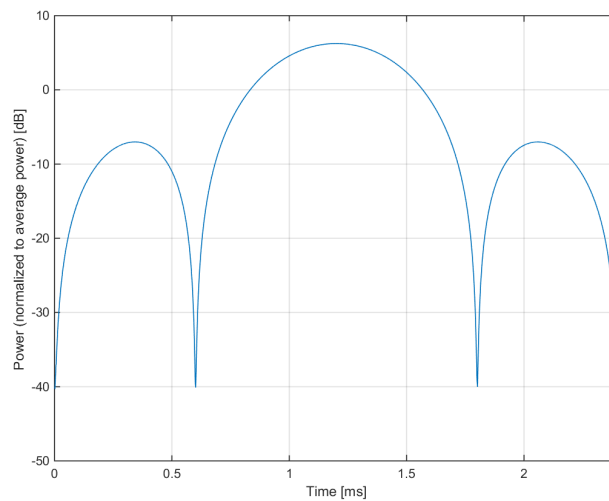
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



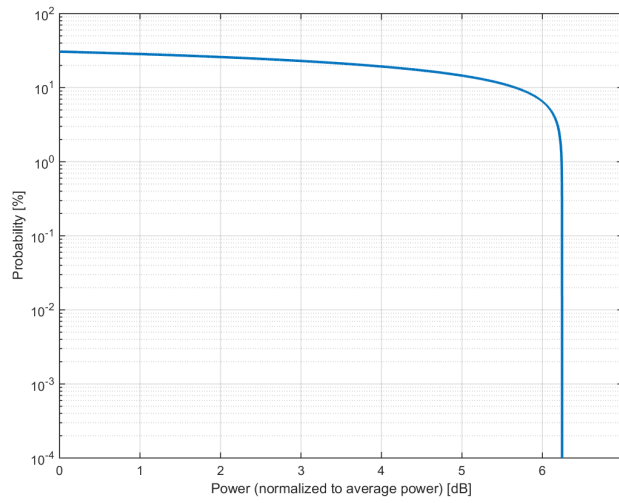
Time Domain

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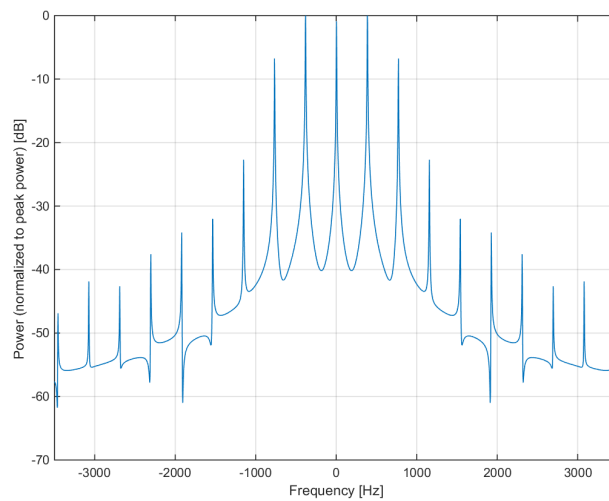
| | |
|-------------------------|--|
| Name: | MITS (2pi Sinc, 2.6ms, 2.6ms) |
| Group: | MRI |
| UID: | 10665-AAA |
| PAR: ¹ | 6.24 dB |
| MIF: ² | 0.37 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 2 Pi Repetition Rate: 385 Hz Duty Cycle: 100% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 2.6 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

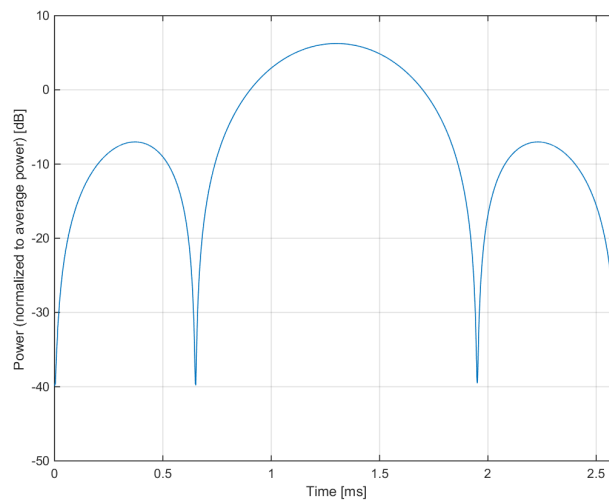
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



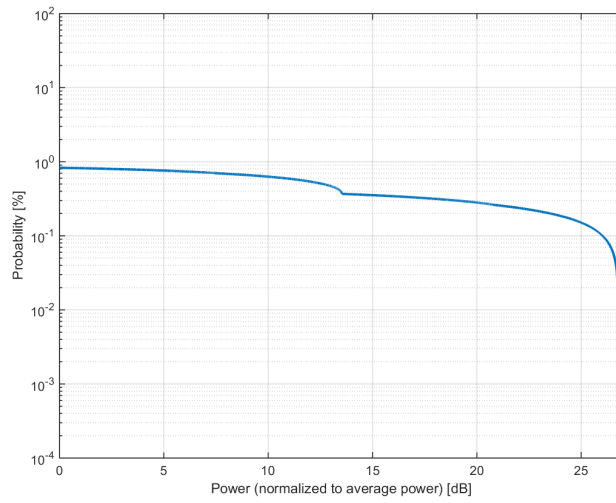
Time Domain

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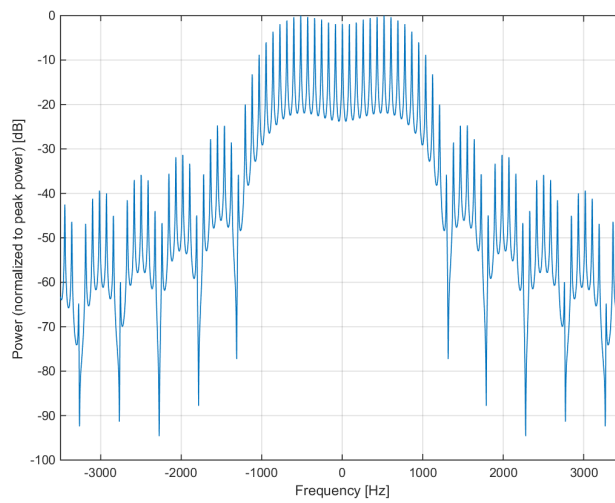
| | |
|-------------------------|---|
| Name: | MIT5 (2pi Sinc, 2ms, 4370ms) |
| Group: | MRI |
| UID: | 10666-AAA |
| PAR: ¹ | 26.02 dB |
| MIF: ² | 11.61 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Fast Spin Echo (FSE) TR = 4370 ms Echo Time = 116 ms Echo Train Length = 19 |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 4370.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

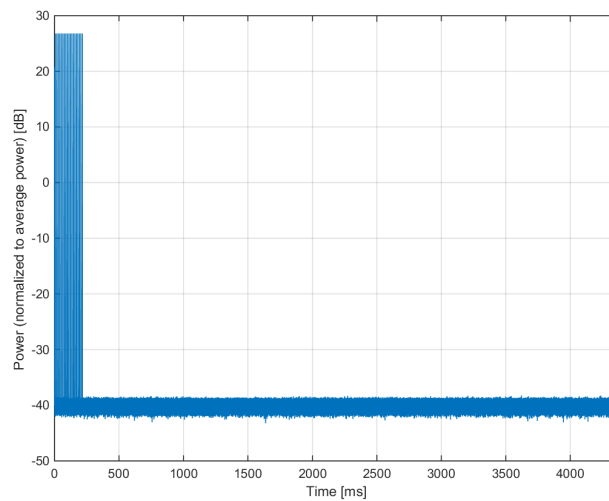
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



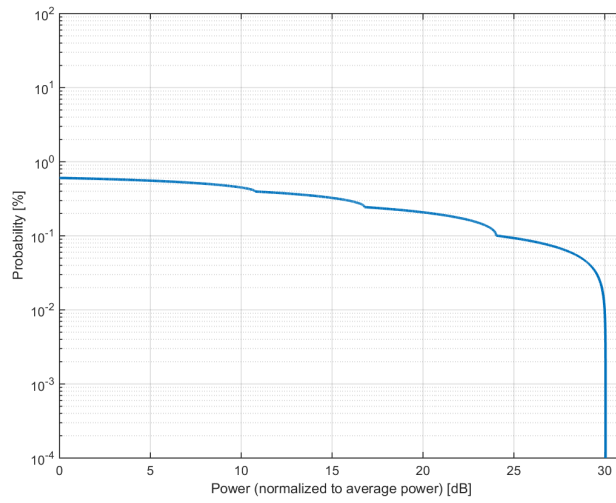
Time Domain

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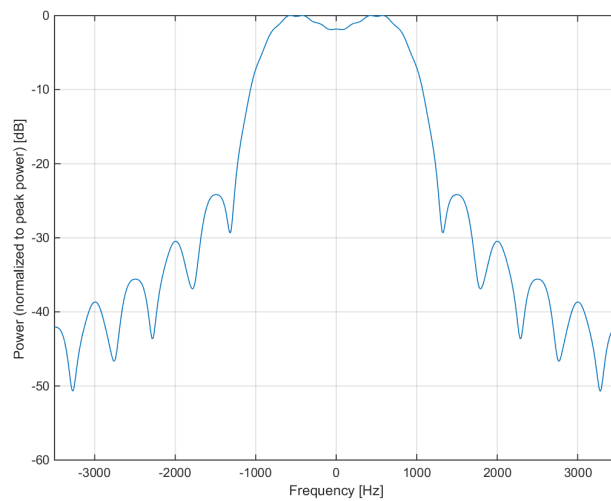
| | |
|-------------------------|--|
| Name: | MIT5 (2pi Sinc, 2ms, 600ms) |
| Group: | MRI |
| UID: | 10667-AAA |
| PAR: ¹ | 24.11 dB |
| MIF: ² | 20.22 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) T1 Spin Echo (T1-SE) TR = 600 ms Echo Time = 10 ms Echo Train Length = 1 |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 600.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

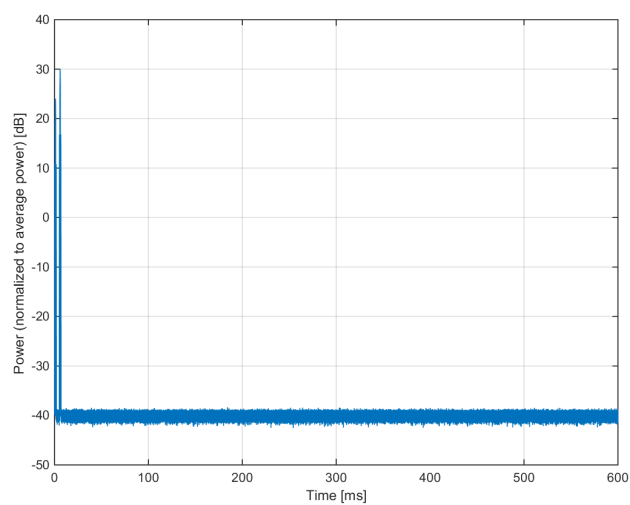
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



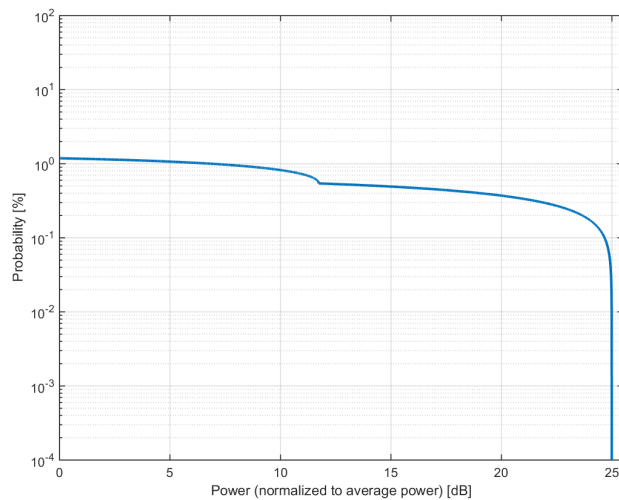
Time Domain

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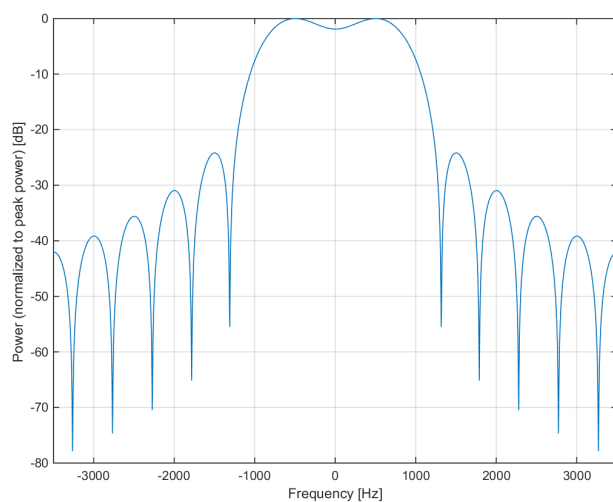
| | |
|-------------------------|--|
| Name: | MIT5 (2pi Sinc, 2ms, 150ms) |
| Group: | MRI |
| UID: | 10668-AAA |
| PAR: ¹ | 24.67 dB |
| MIF: ² | 16.70 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 2 Pi Repetition Rate: 6.67 Hz Duty Cycle: 1.33% |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 150.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

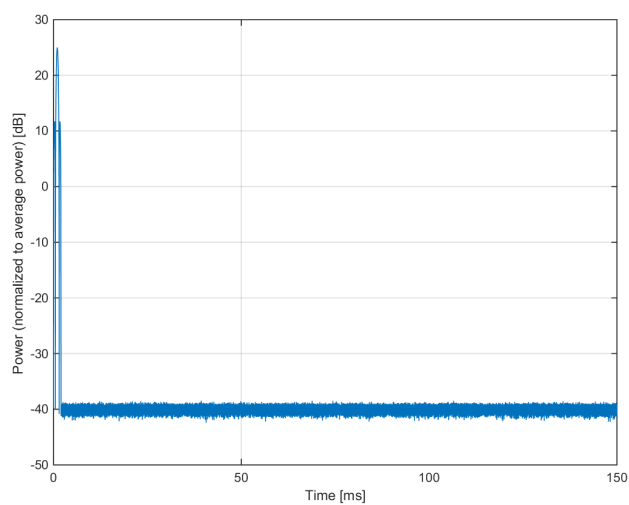
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



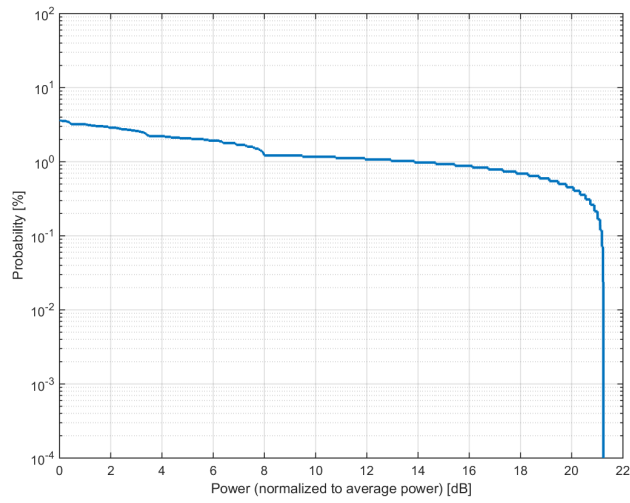
Time Domain

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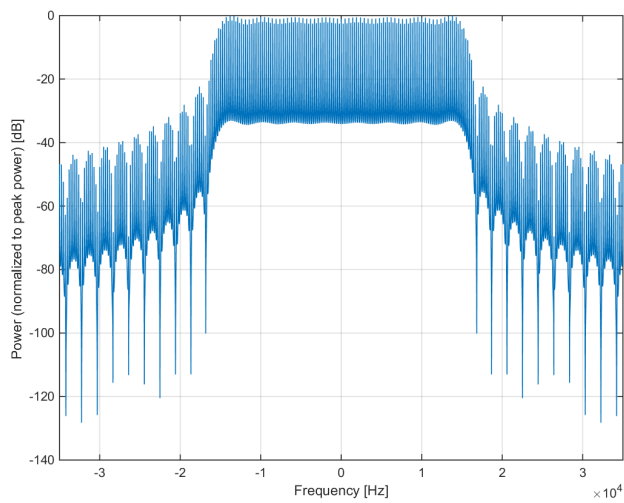
| | |
|-------------------------|--|
| Name: | MIT5 (8pi Sinc, 0.512ms, 4.2ms) |
| Group: | MRI |
| UID: | 10669-AAA |
| PAR: ¹ | 21.11 dB |
| MIF: ² | 6.78 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 8 Pi Repetition Rate: 238 Hz Duty Cycle: 8.2% |
| Bandwidth: | 0.1 MHz |
| Integration Time: | 4.2 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

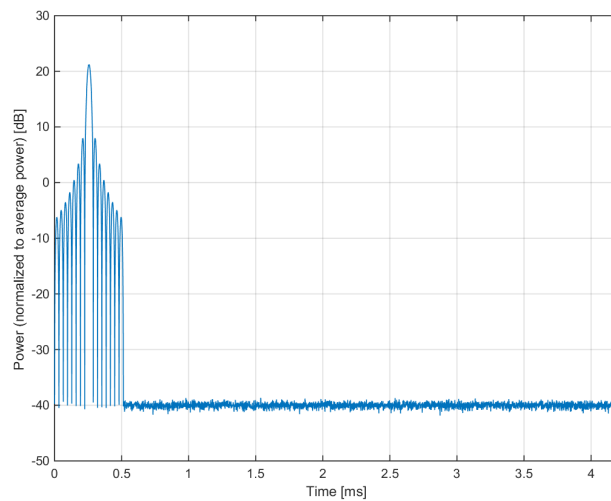
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



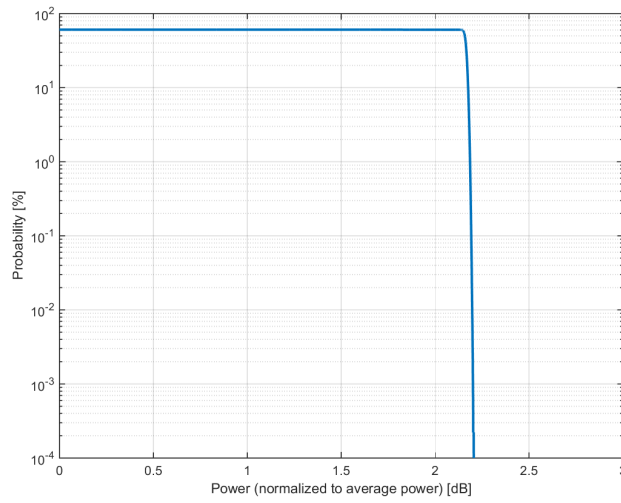
Time Domain

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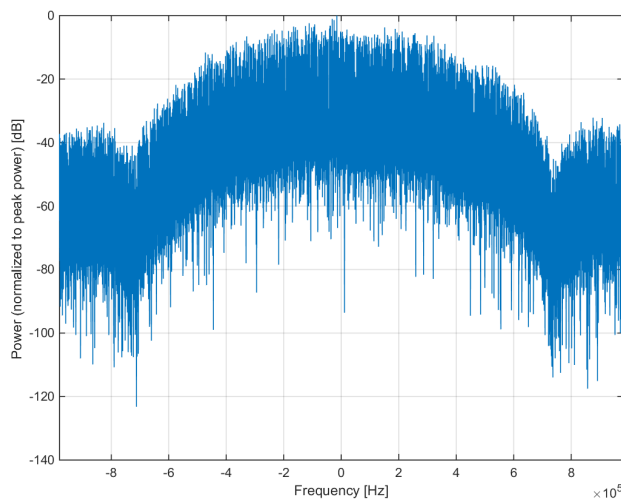
| | |
|-------------------------|--|
| Name: | Bluetooth Low Energy |
| Group: | Bluetooth |
| UID: | 10670-AAA |
| PAR: ¹ | 2.19 dB |
| MIF: ² | -1.94 dB |
| Standard Reference: | IEEE Standard 802.15.1 |
| Category: | Periodic pulsed modulation |
| Modulation: | GFSK |
| Frequency Band: | ISM 2.4 GHz Band (2400.0 - 2483.5 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bluetooth Low Energy Mode: Data Packet Type: Test Packet |
| Bandwidth: | 1.4 MHz |
| Integration Time: | 90.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

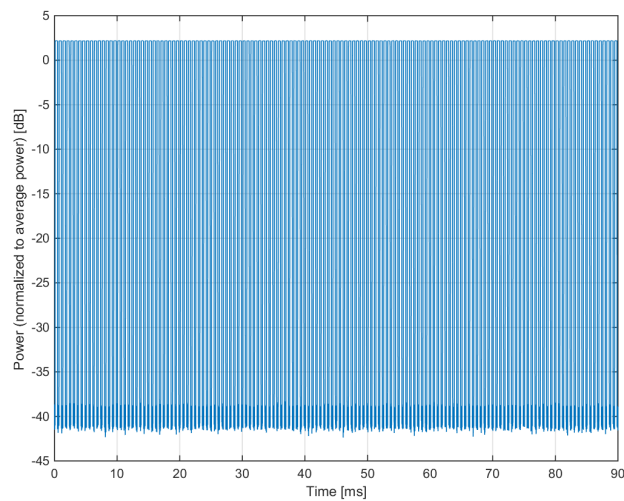
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10671-AAC

PAR: ¹ **9.09 dB**
MIF: ² **-5.58 dB**

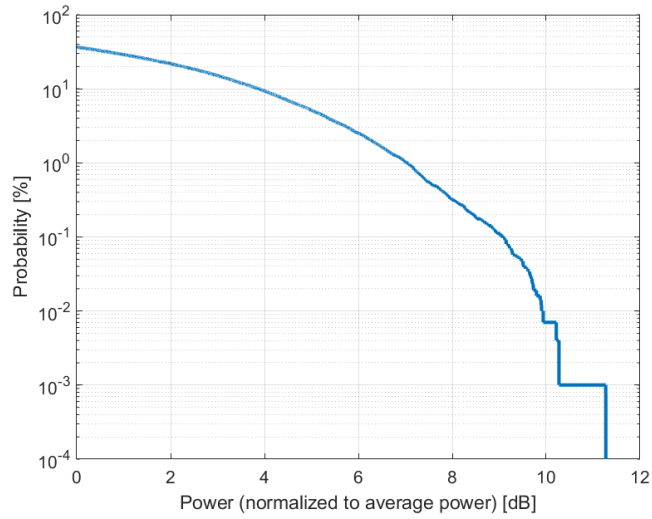
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

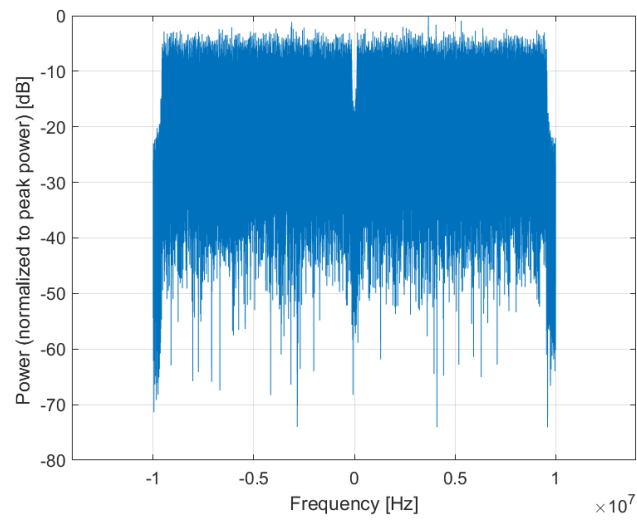
Bandwidth: 20.0 MHz
Integration Time: 5.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

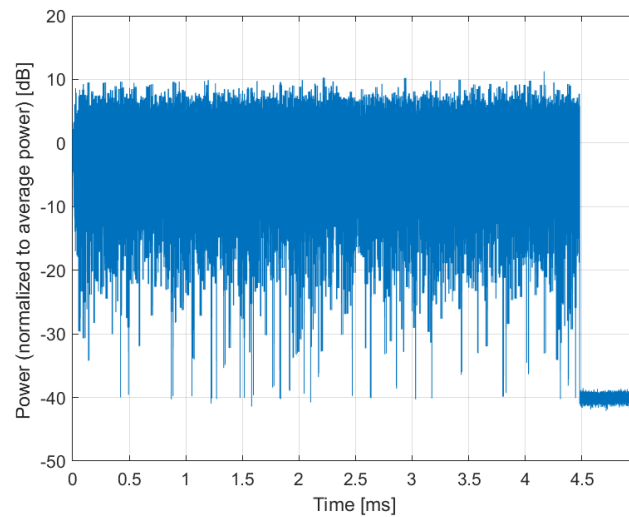
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10672-AAC

PAR: ¹ **8.57 dB**
MIF: ² **-5.66 dB**

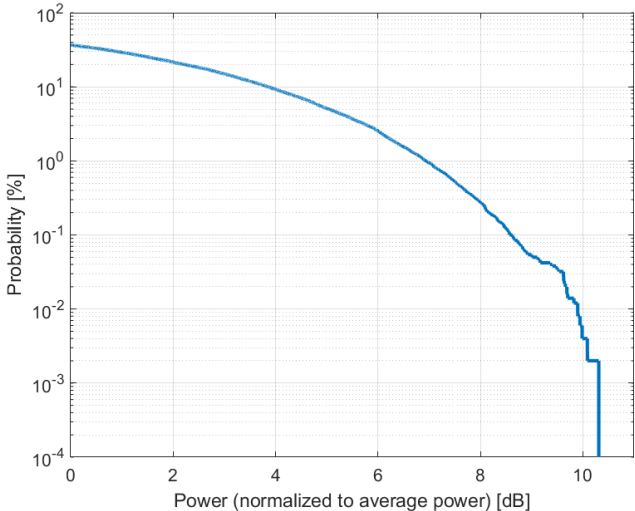
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

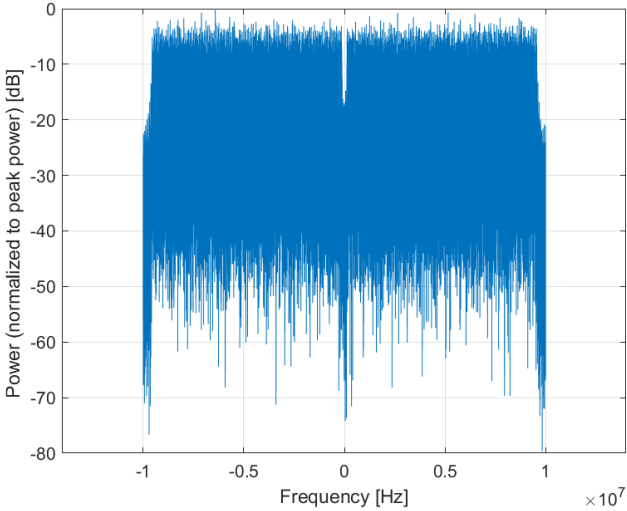
Bandwidth: 20.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

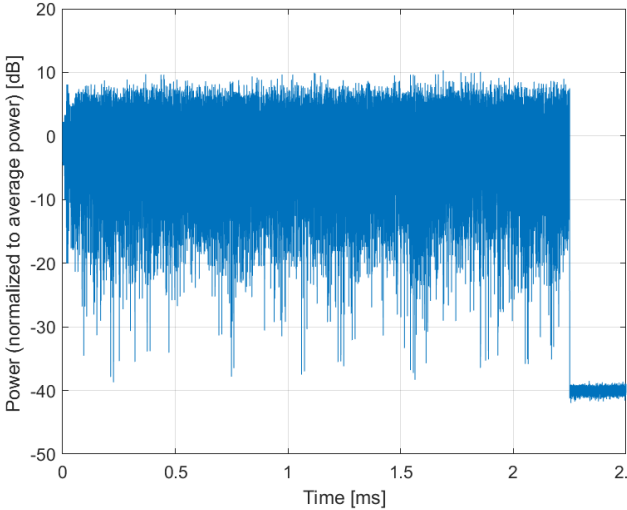
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10673-AAC

PAR: ¹ **8.78 dB**
MIF: ² **-5.81 dB**

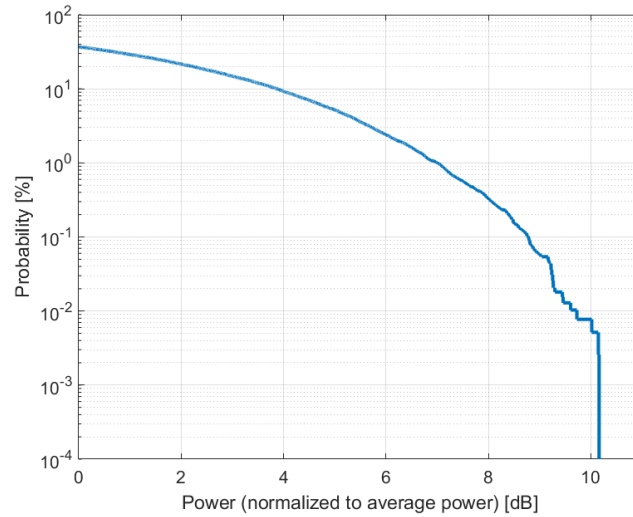
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

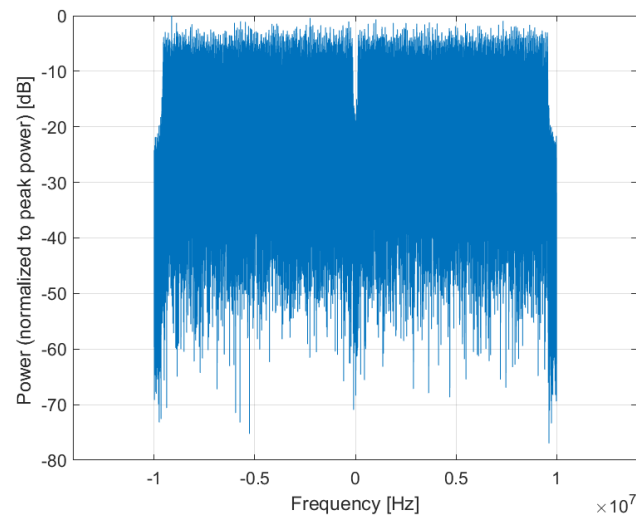
Bandwidth: 20.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

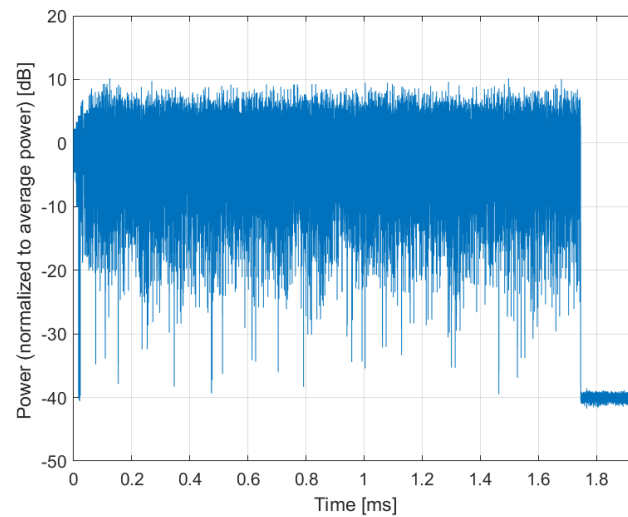
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10674-AAC

PAR: ¹ **8.74 dB**
MIF: ² **-5.96 dB**

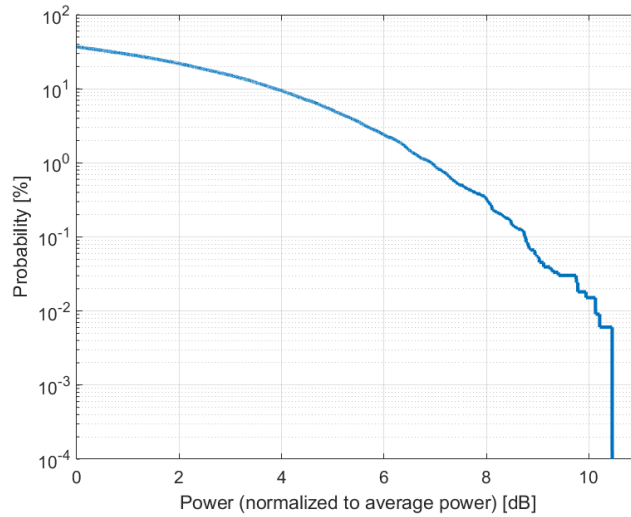
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

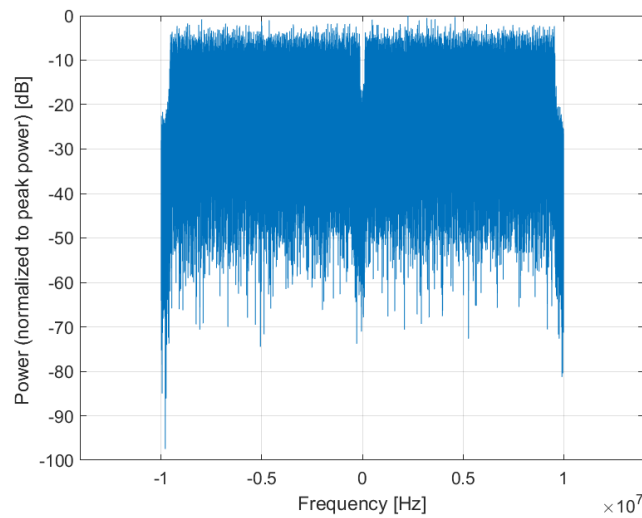
Bandwidth: 20.0 MHz
Integration Time: 1.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

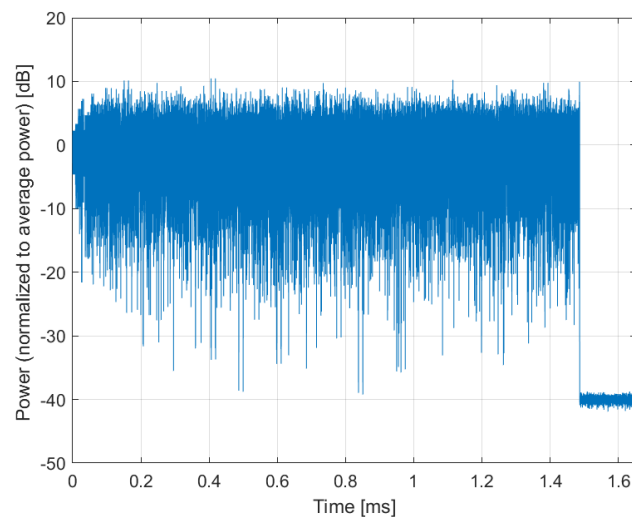
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10675-AAC

PAR:¹ **8.90 dB**
MIF:² **-5.78 dB**

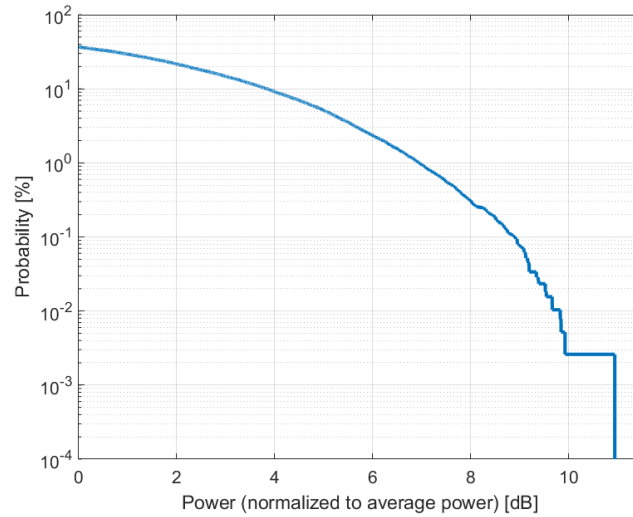
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

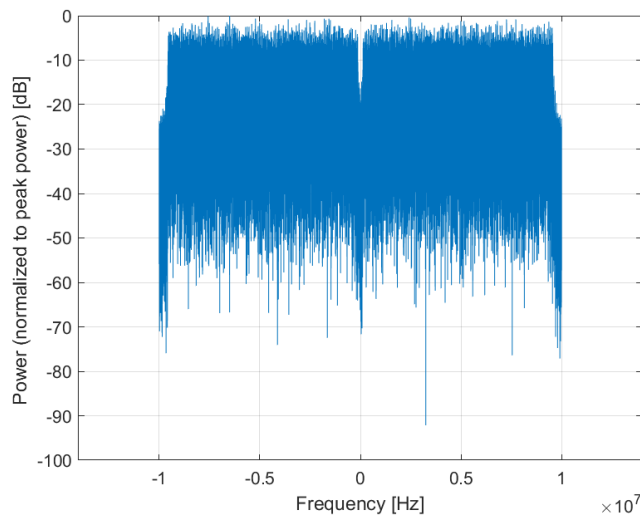
Bandwidth: 20.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

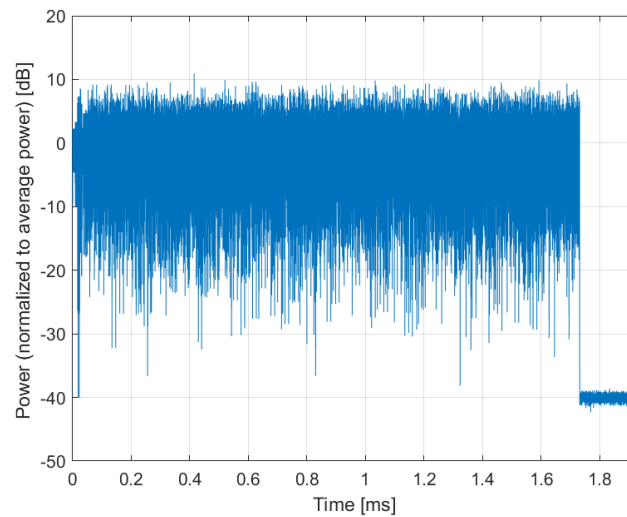
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10676-AAC

PAR: ¹ **8.77 dB**
MIF: ² **-5.82 dB**

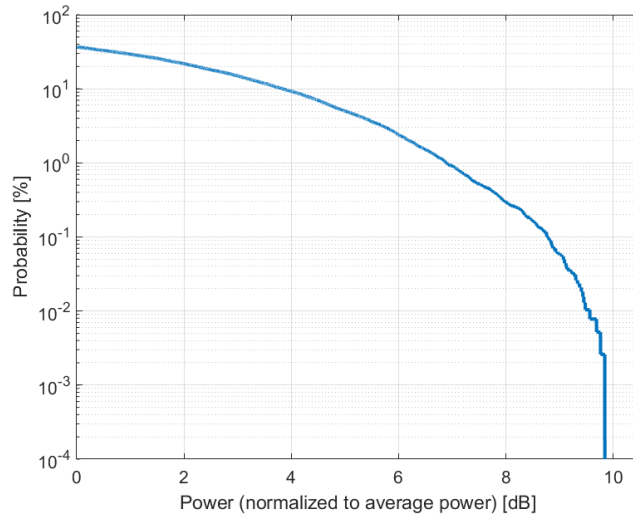
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

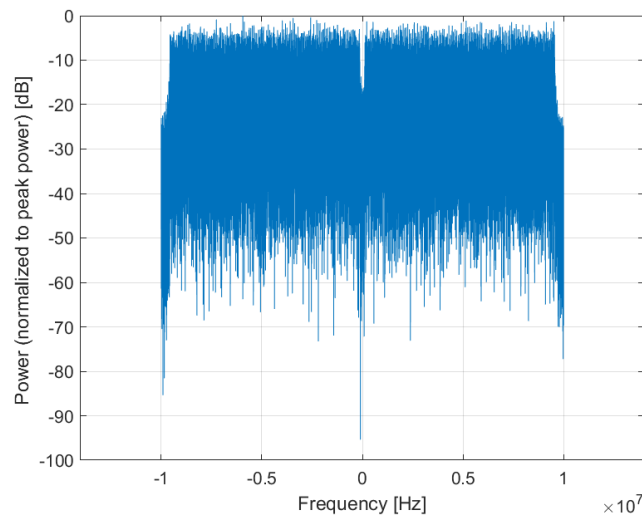
Bandwidth: 20.0 MHz
Integration Time: 1.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

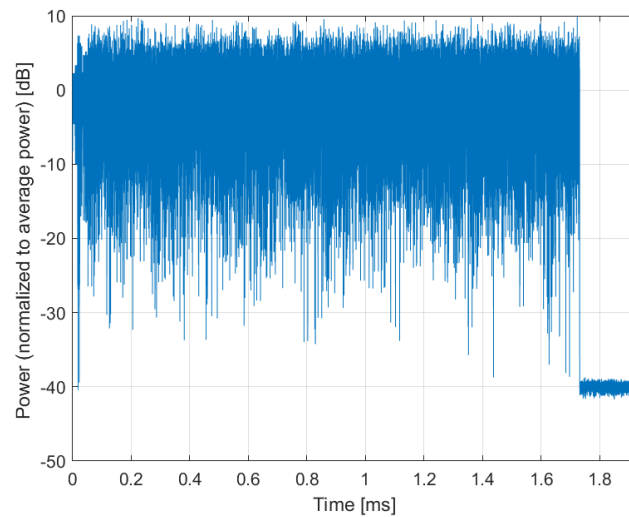
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10677-AAC

PAR: ¹ **8.73 dB**
MIF: ² **-5.69 dB**

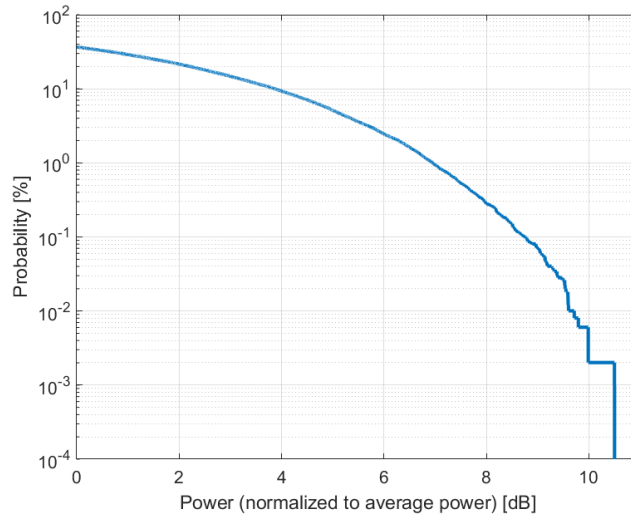
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

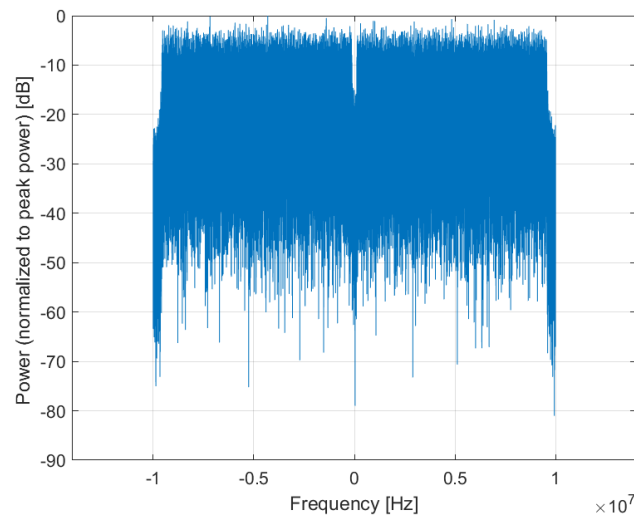
Bandwidth: 20.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

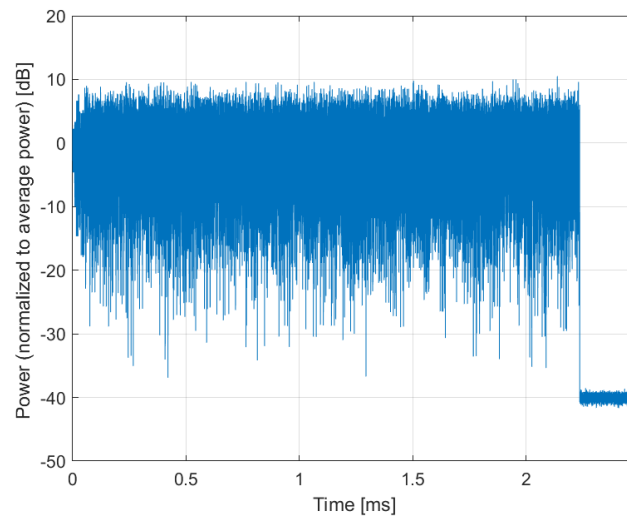
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10678-AAC

PAR: ¹ **8.78 dB**
MIF: ² **-5.65 dB**

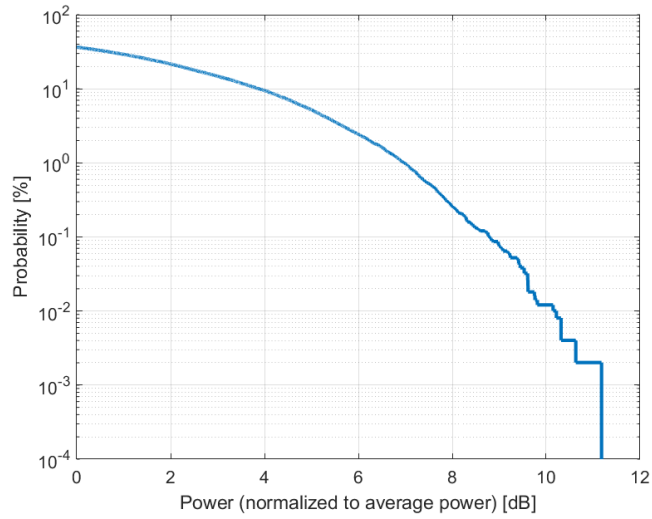
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

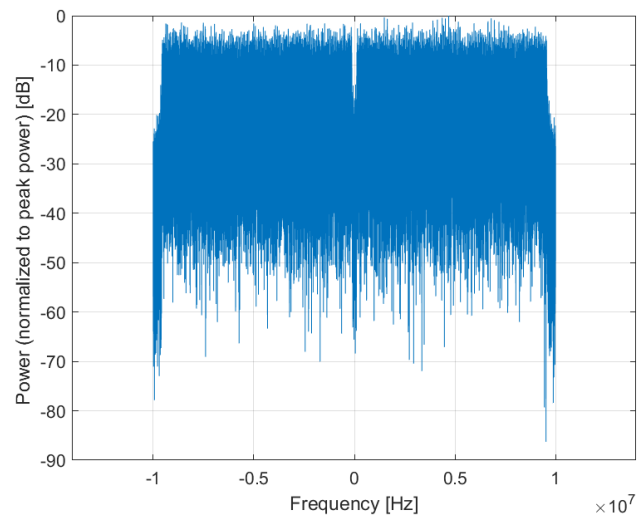
Bandwidth: 20.0 MHz
Integration Time: 2.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

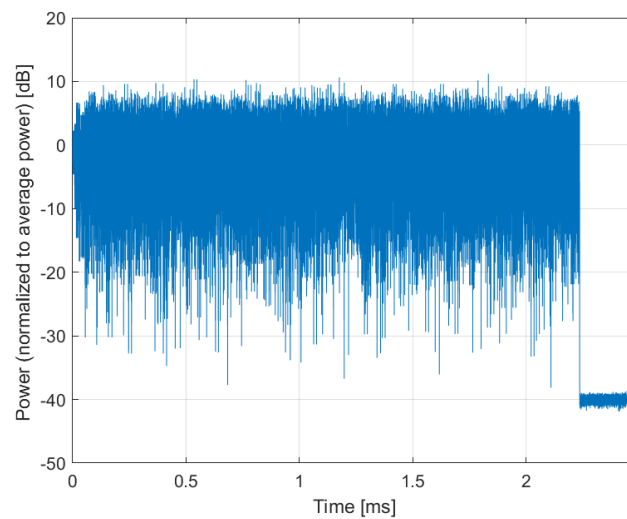
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10679-AAC

PAR: ¹ **8.89 dB**
MIF: ² **-5.71 dB**

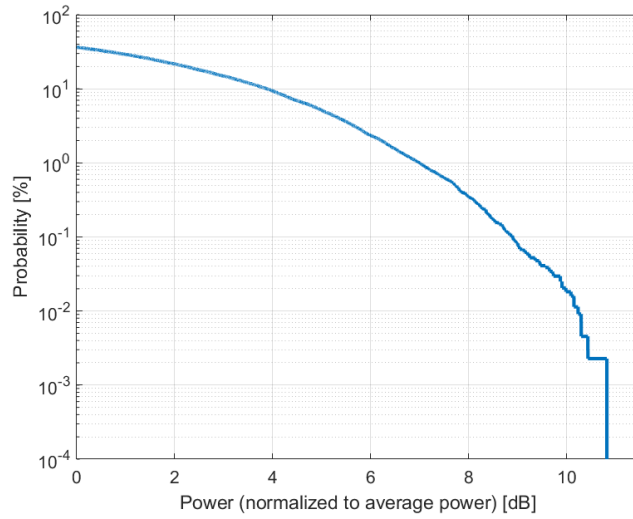
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

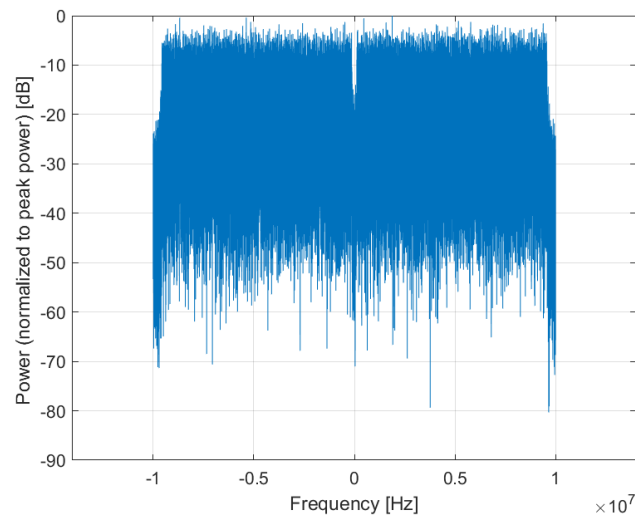
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

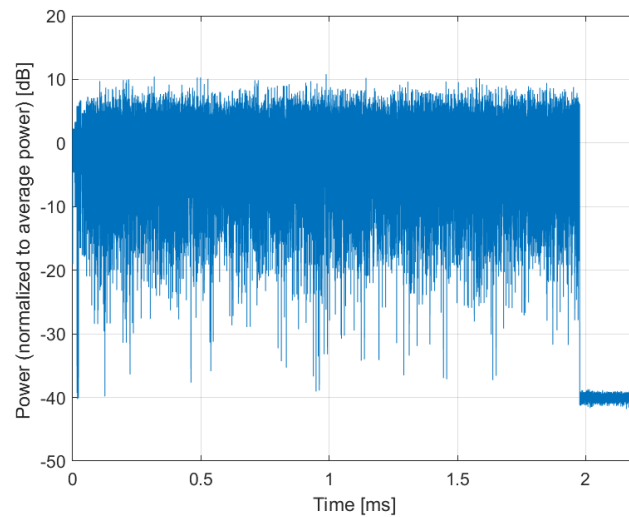
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10680-AAC

PAR: ¹ **8.80 dB**
MIF: ² **-5.73 dB**

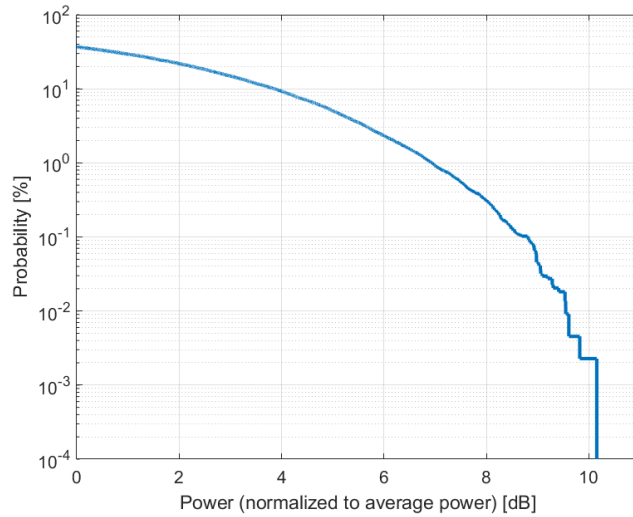
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

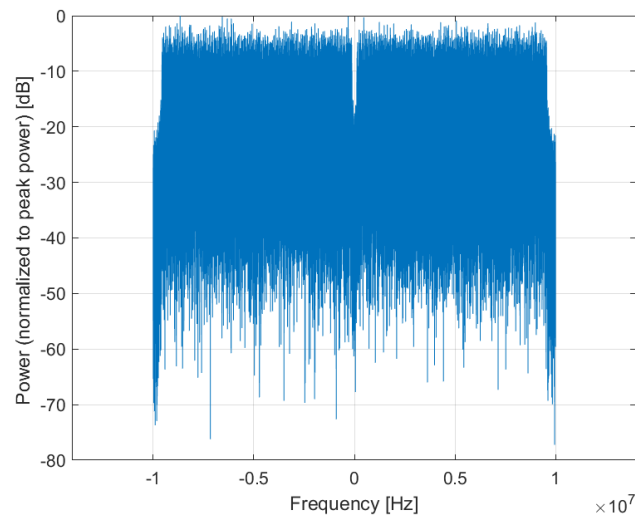
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

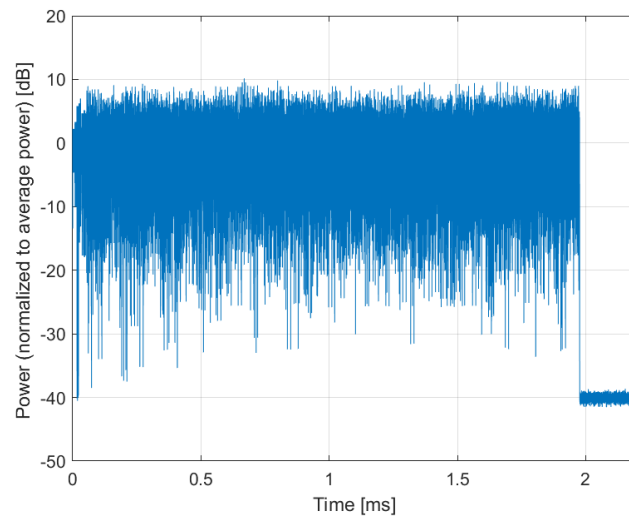
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)**

Group: WLAN
UID: 10681-AAC

PAR: ¹ **8.62 dB**
MIF: ² **-5.69 dB**

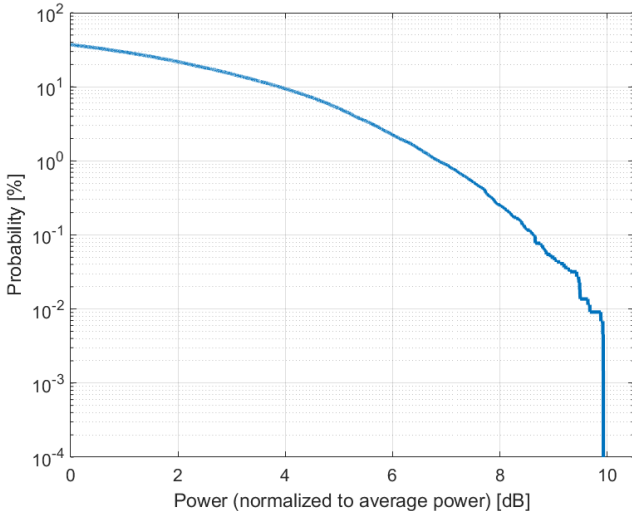
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

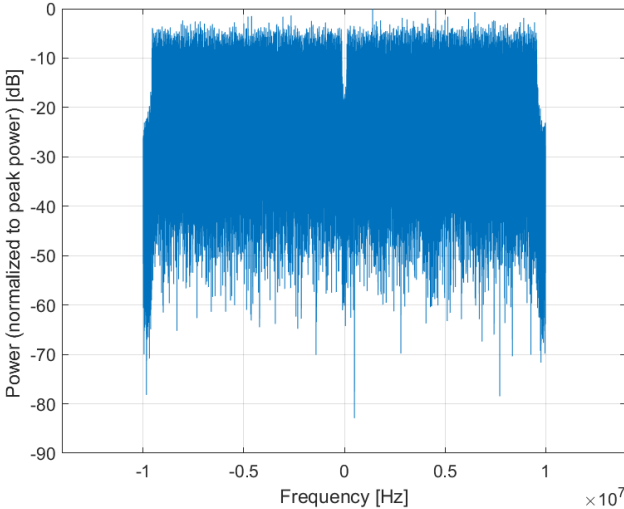
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

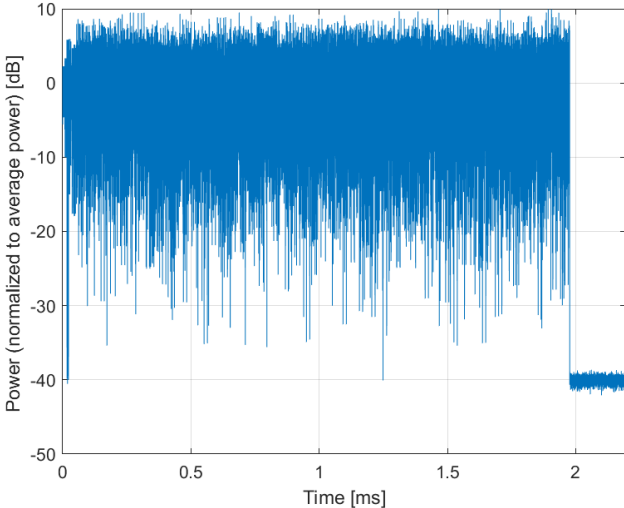
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)**

Group: WLAN
UID: 10682-AAC

PAR: ¹ **8.83 dB**
MIF: ² **-5.72 dB**

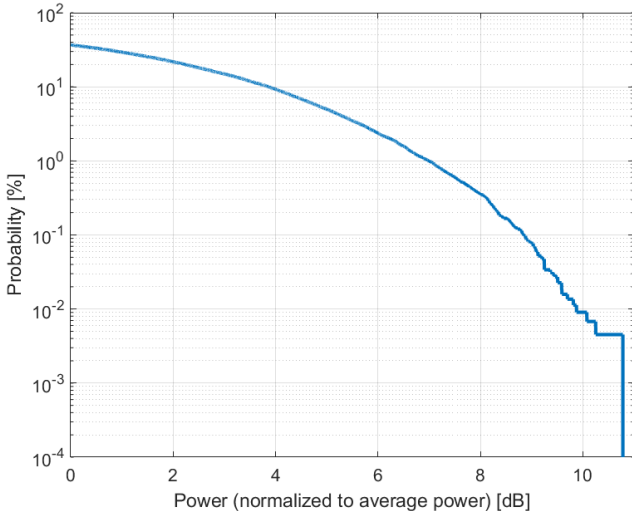
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 90%
Number of spatial stream: 1

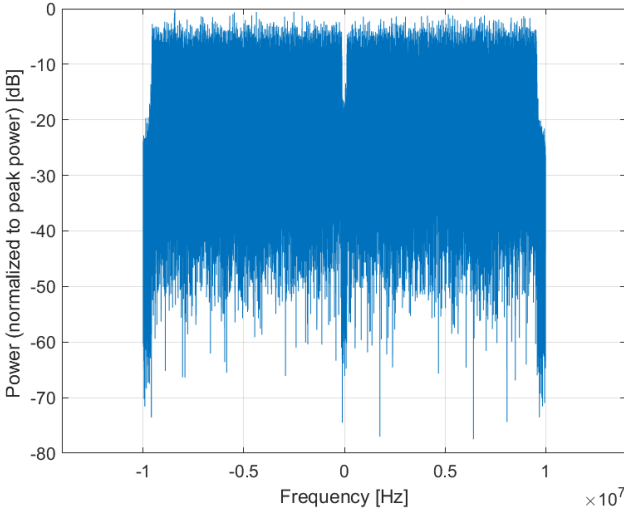
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

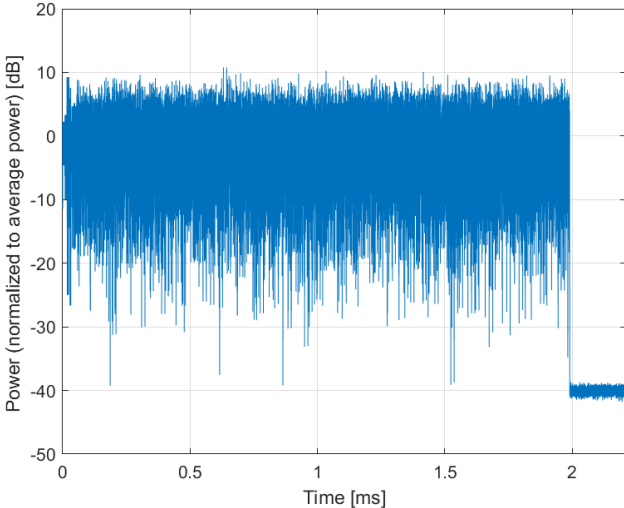
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10683-AAC

PAR: ¹ **8.42 dB**
MIF: ² **-20.98 dB**

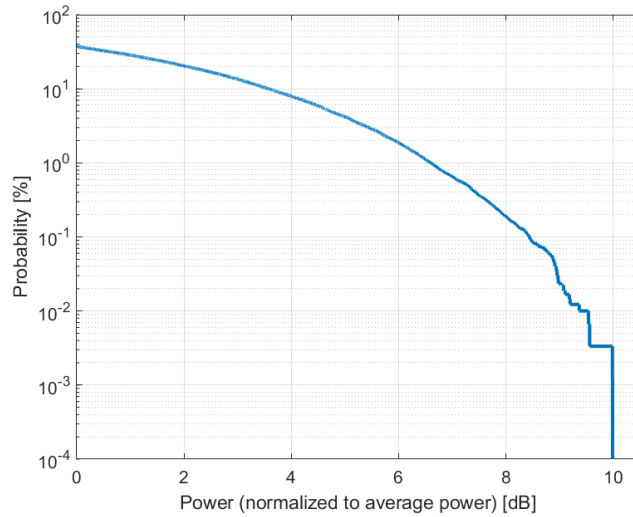
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

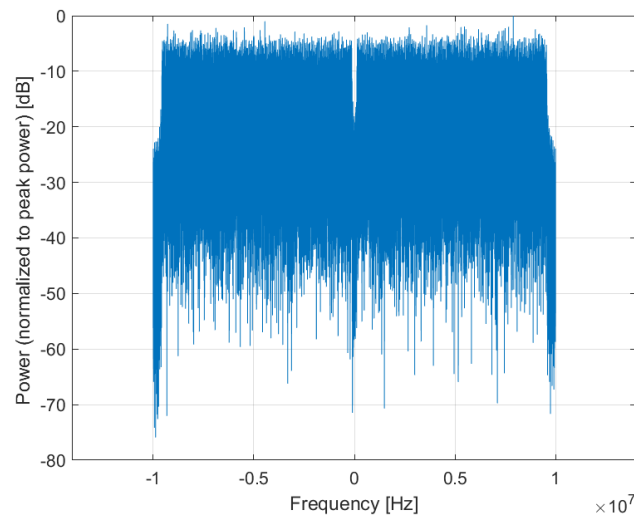
Bandwidth: 20.0 MHz
Integration Time: 4.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

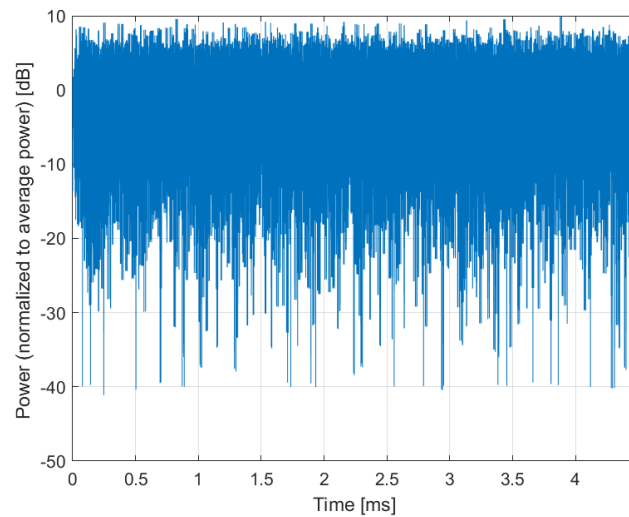
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10684-AAC

PAR: ¹ **8.26 dB**
MIF: ² **-20.26 dB**

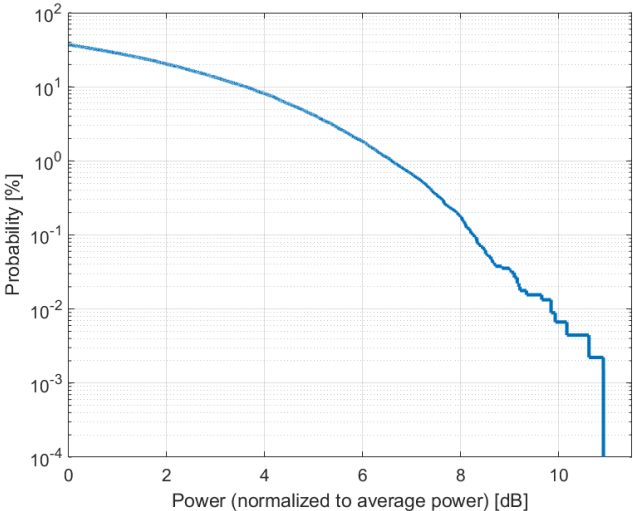
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

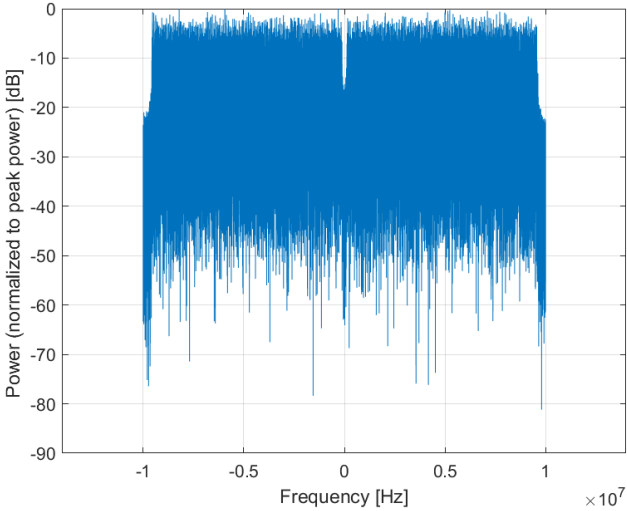
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

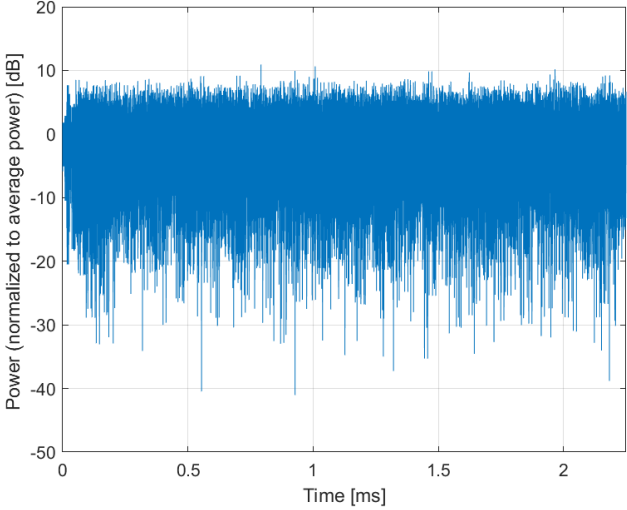
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



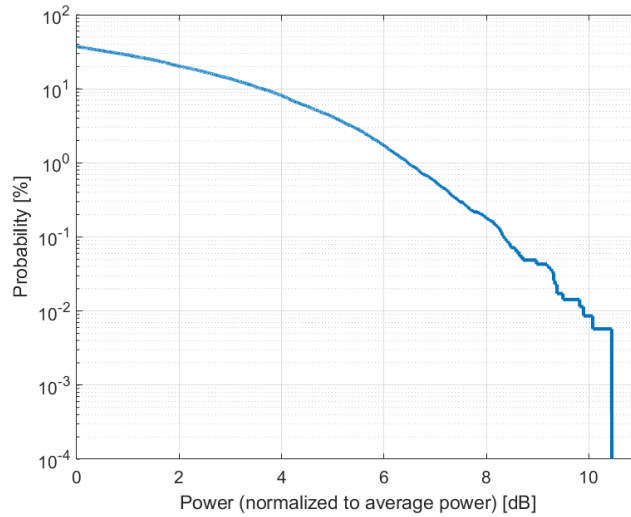
Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

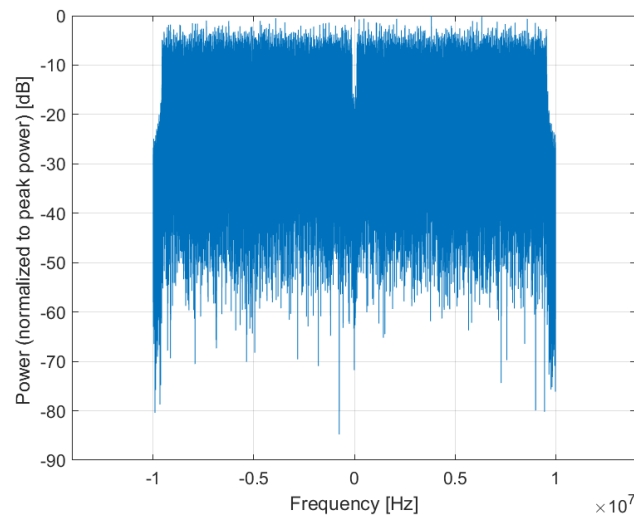
| | |
|-------------------------|--|
| Name: | IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10685-AAC |
| PAR: ¹ | 8.33 dB |
| MIF: ² | -20.96 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5.825 - 5.925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 20MHz Duty Cycle: 99% Number of spatial stream: 1 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

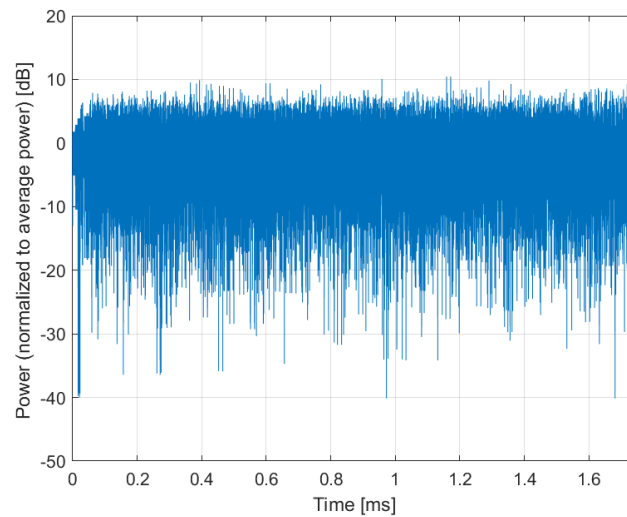
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10686-AAC

PAR: ¹ **8.28 dB**
MIF: ² **-18.54 dB**

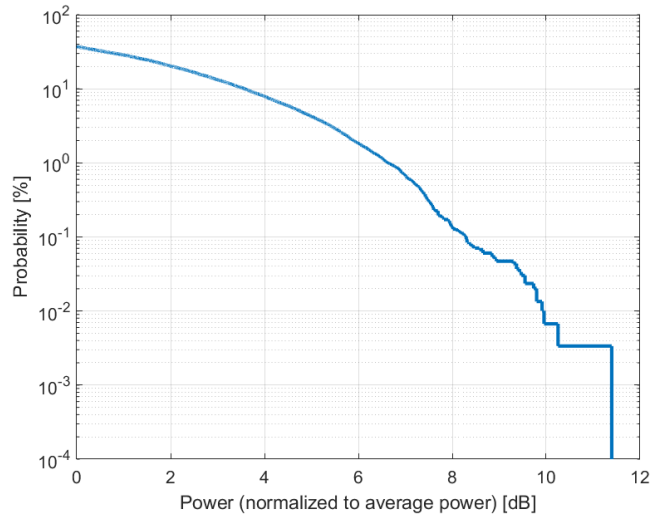
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

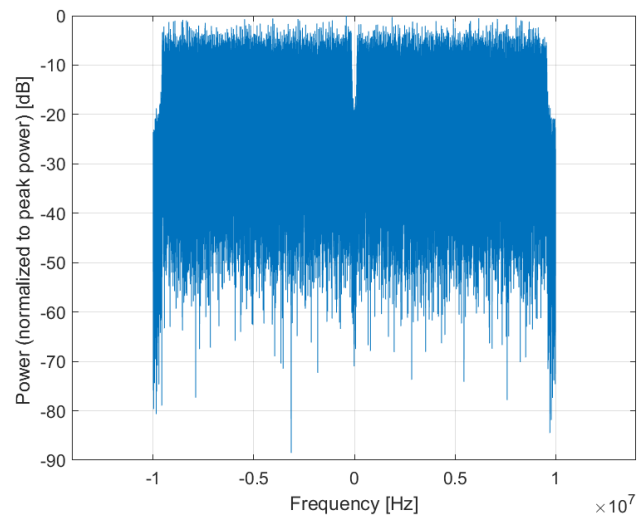
Bandwidth: 20.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

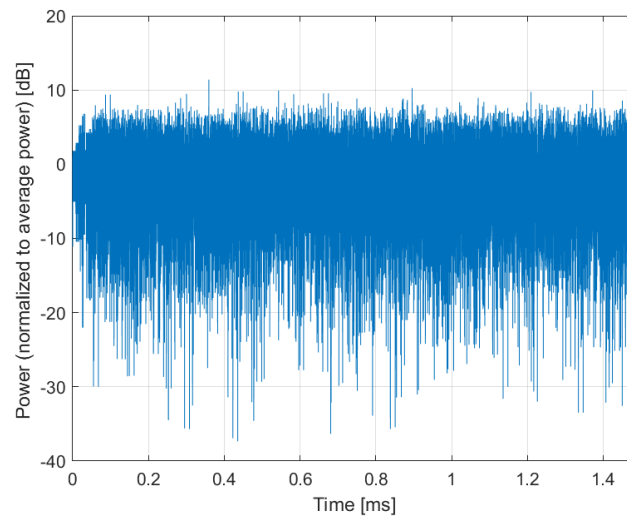
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



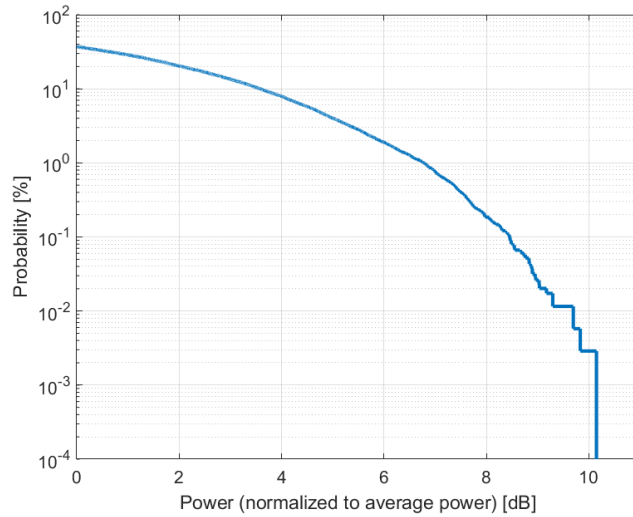
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

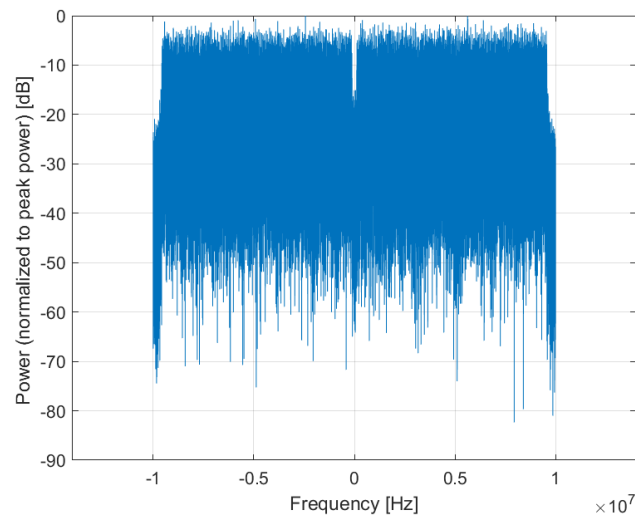
| | |
|-------------------------|--|
| Name: | IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10687-AAC |
| PAR: ¹ | 8.45 dB |
| MIF: ² | -20.41 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | 16-QAM |
| Frequency Band: | WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5.825 - 5.925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 20MHz Duty Cycle: 99% Number of spatial stream: 1 |
| Bandwidth: | 20.0 MHz |
| Integration Time: | 1.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

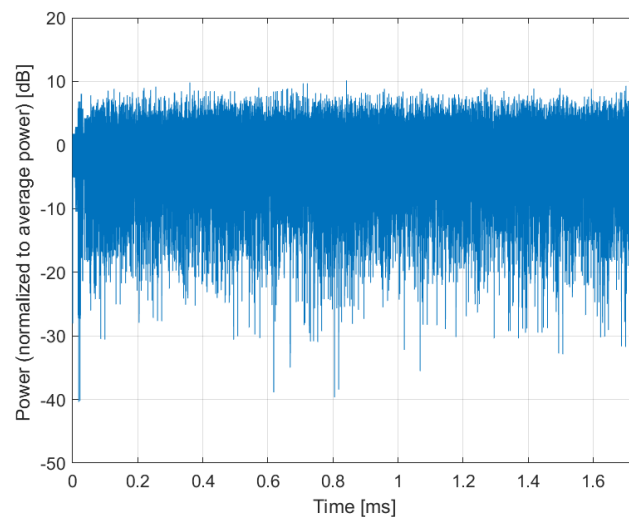
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)**

Group: WLAN
UID: 10688-AAC

PAR: ¹ **8.29 dB**
MIF: ² **-19.53 dB**

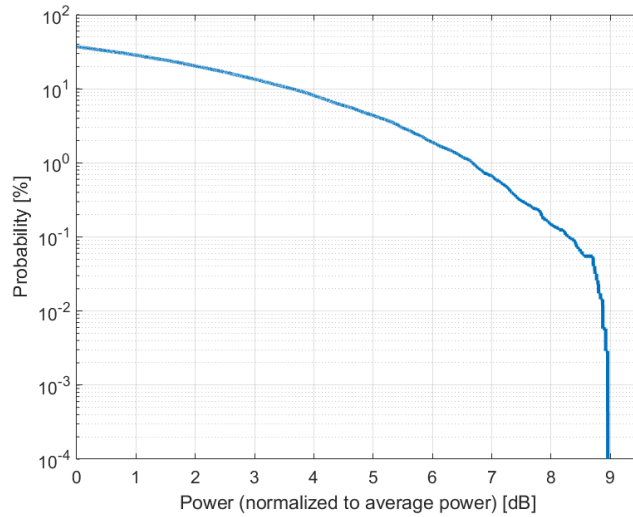
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

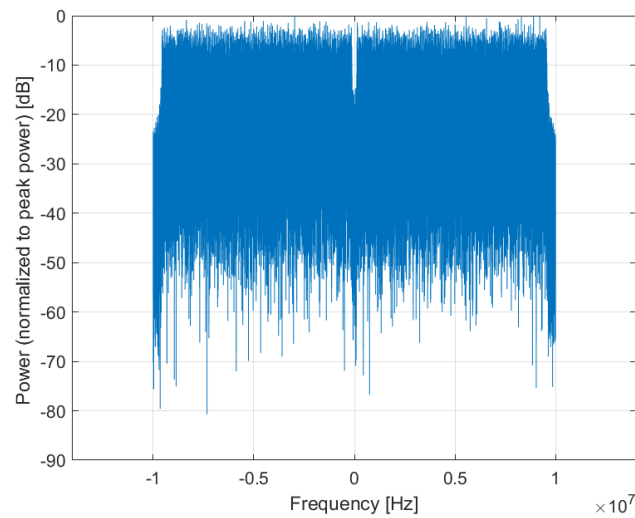
Bandwidth: 20.0 MHz
Integration Time: 1.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

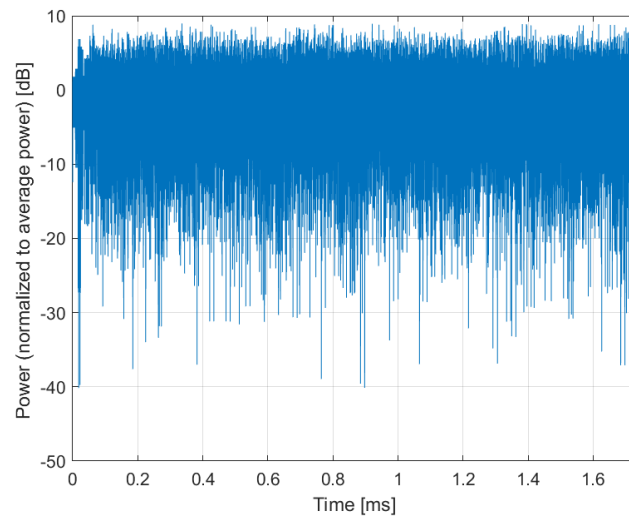
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10689-AAC

PAR: ¹ **8.55 dB**
MIF: ² **-18.10 dB**

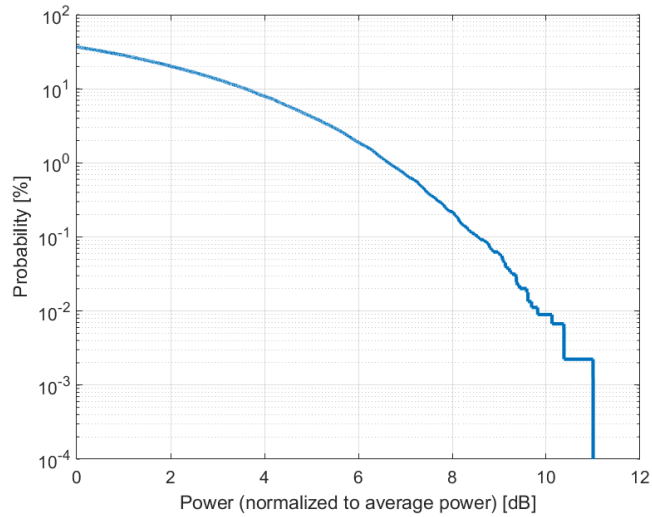
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

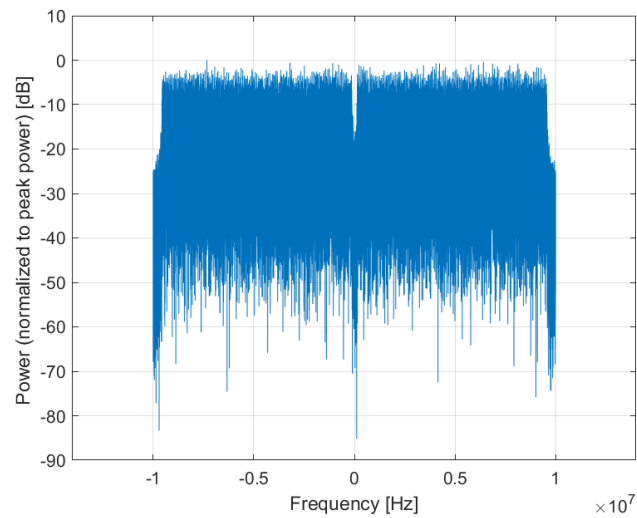
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

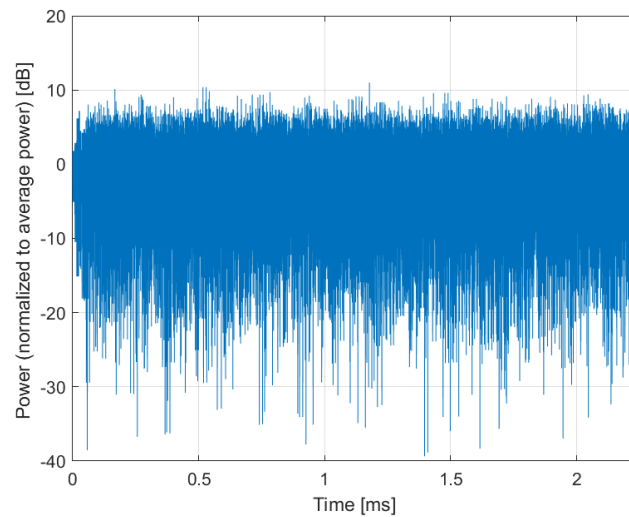
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10690-AAC

PAR: ¹ **8.29 dB**
MIF: ² **-18.81 dB**

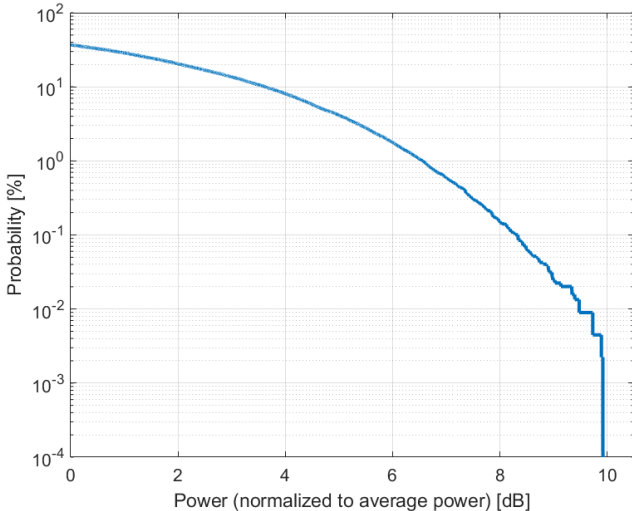
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

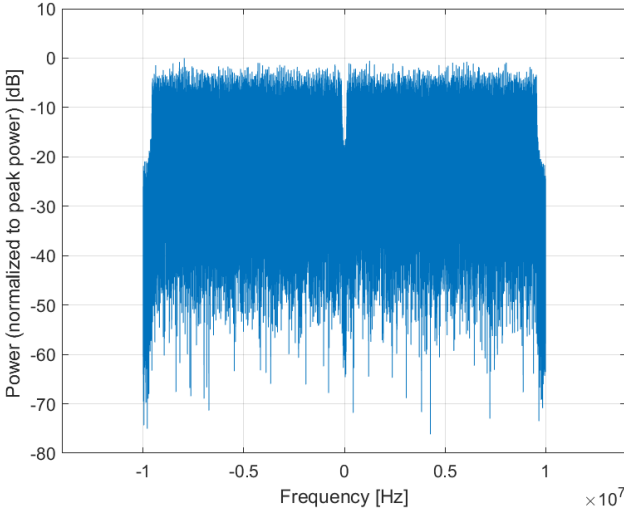
Bandwidth: 20.0 MHz
Integration Time: 2.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

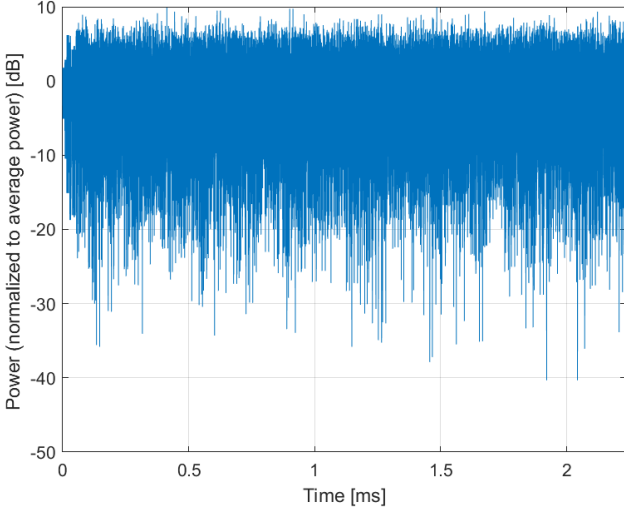
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10691-AAC

PAR: ¹ **8.25 dB**
MIF: ² **-17.97 dB**

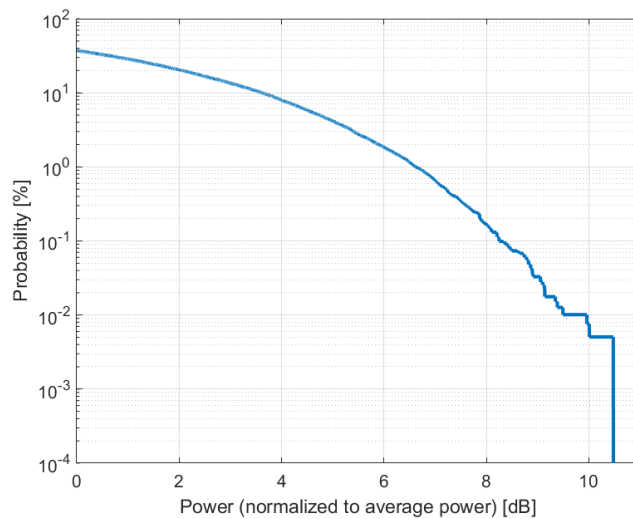
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

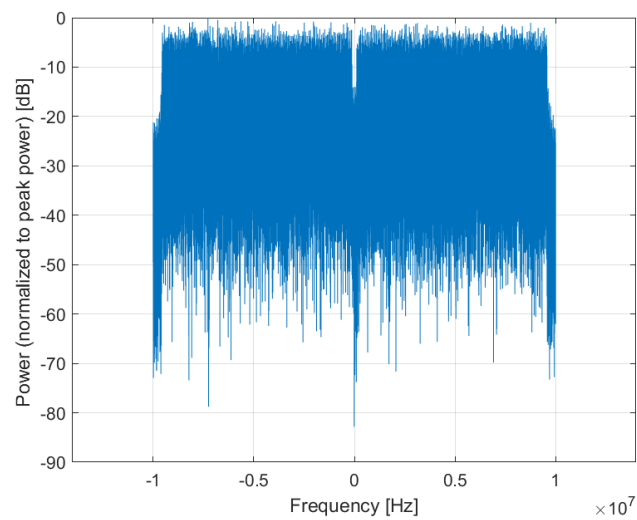
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

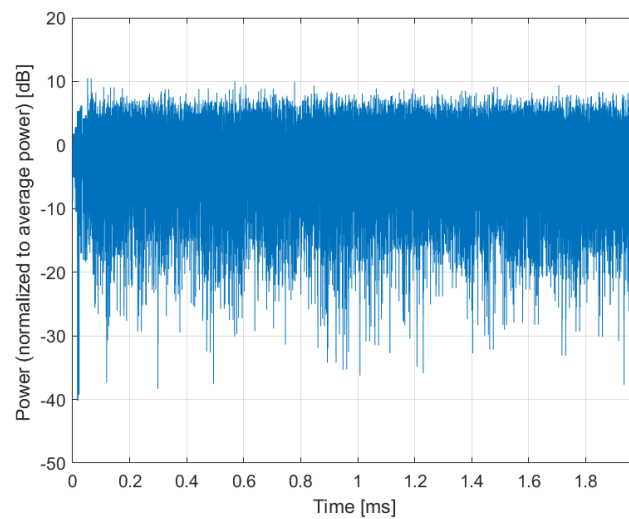
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10692-AAC

PAR: ¹ **8.29 dB**
MIF: ² **-19.92 dB**

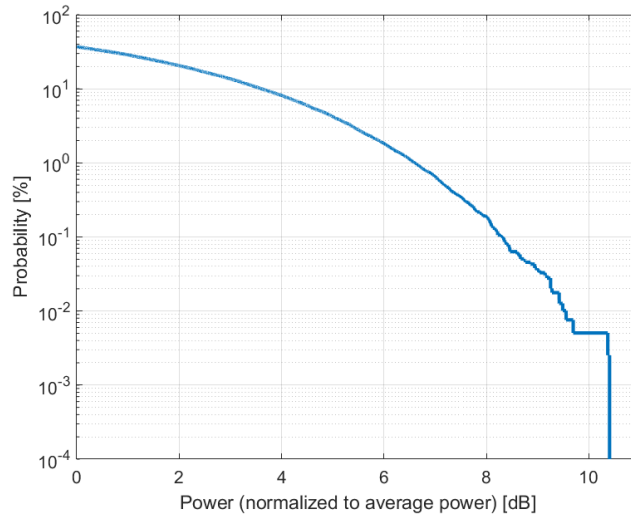
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

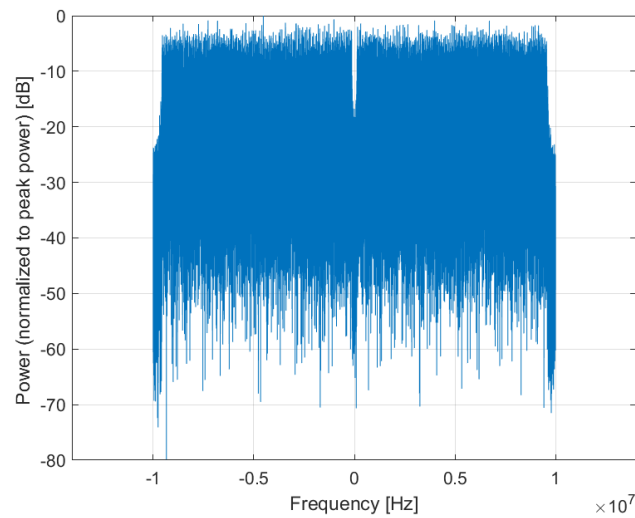
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

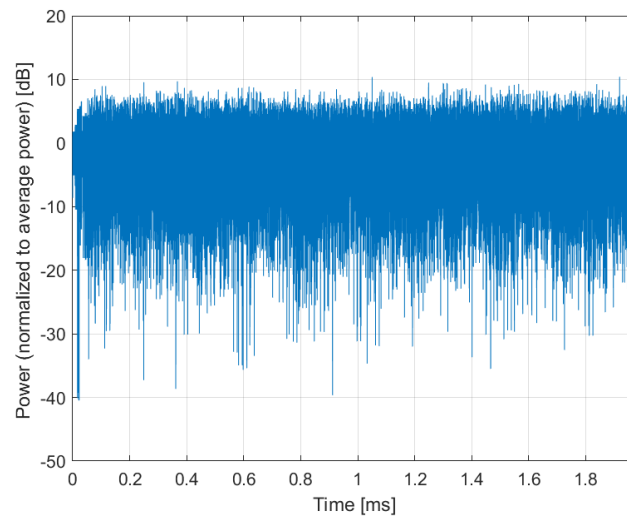
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)**

Group: WLAN
UID: 10693-AAC

PAR: ¹ **8.25 dB**
MIF: ² **-20.11 dB**

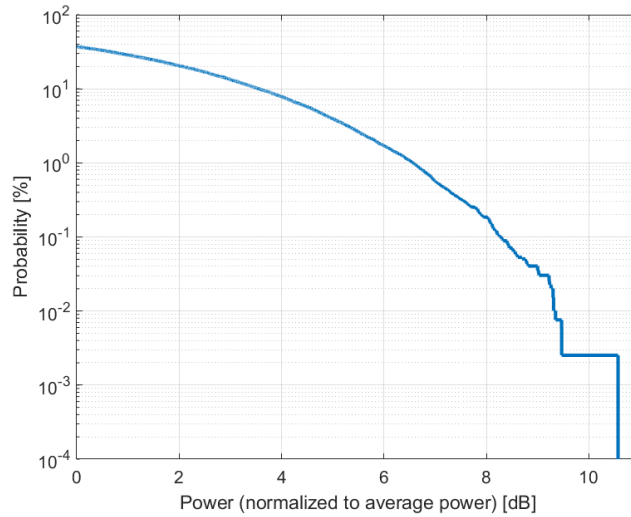
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

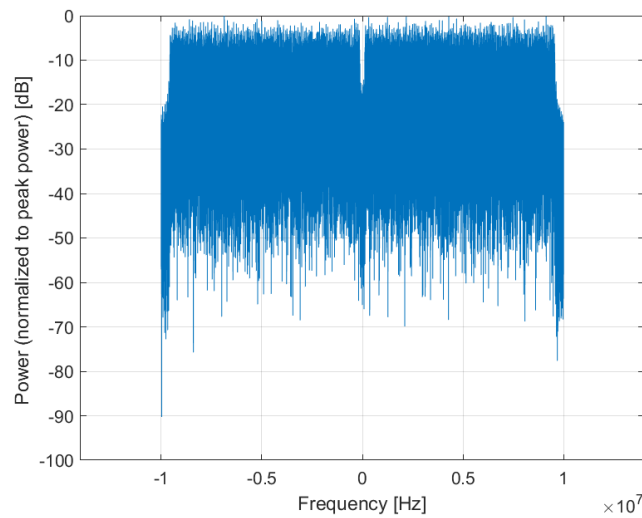
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

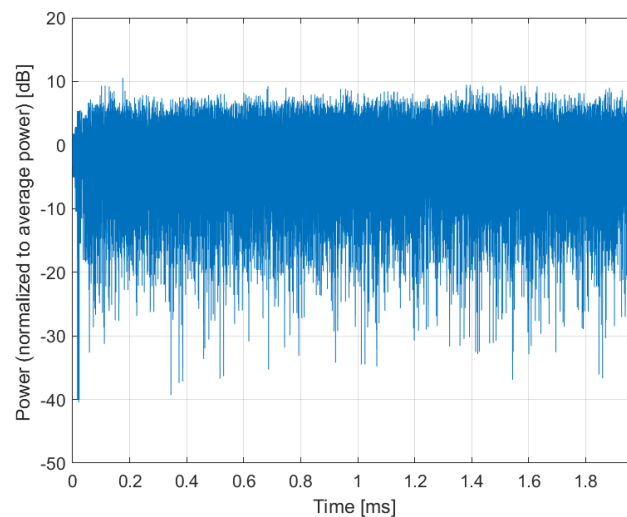
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)**

Group: WLAN
UID: 10694-AAC

PAR: ¹ **8.57 dB**
MIF: ² **-18.23 dB**

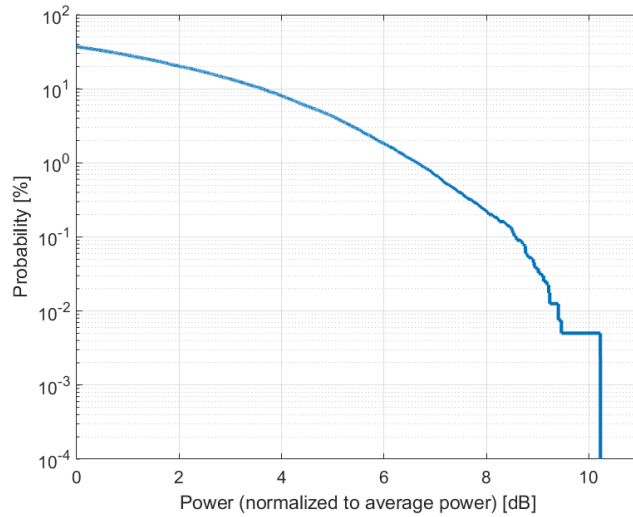
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 20MHz
Duty Cycle: 99%
Number of spatial stream: 1

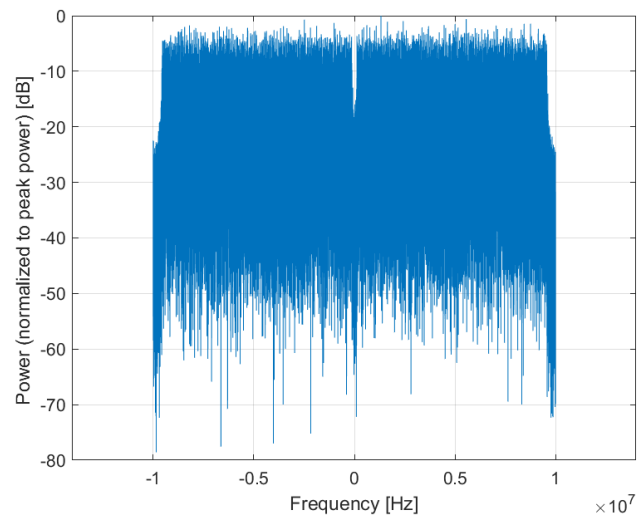
Bandwidth: 20.0 MHz
Integration Time: 2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

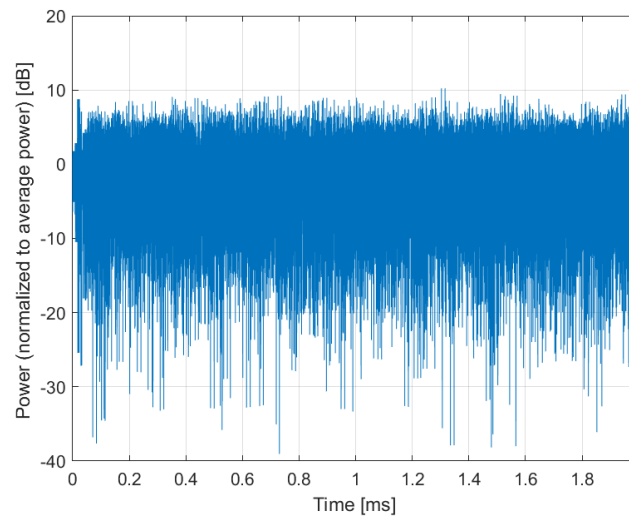
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10695-AAC

PAR: ¹ **8.78 dB**
MIF: ² **-6.01 dB**

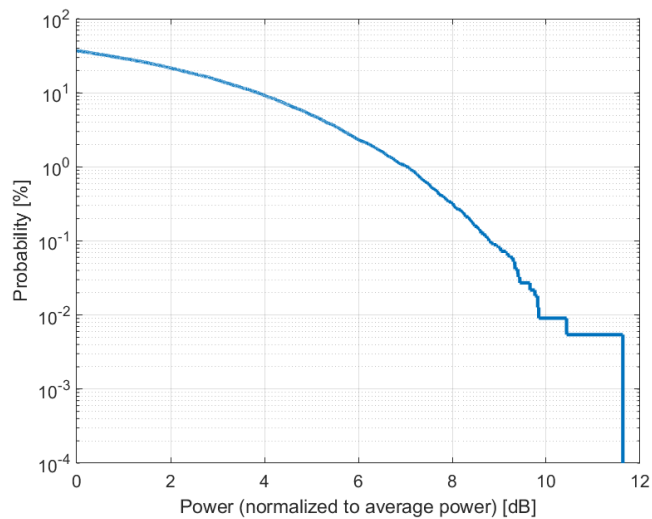
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

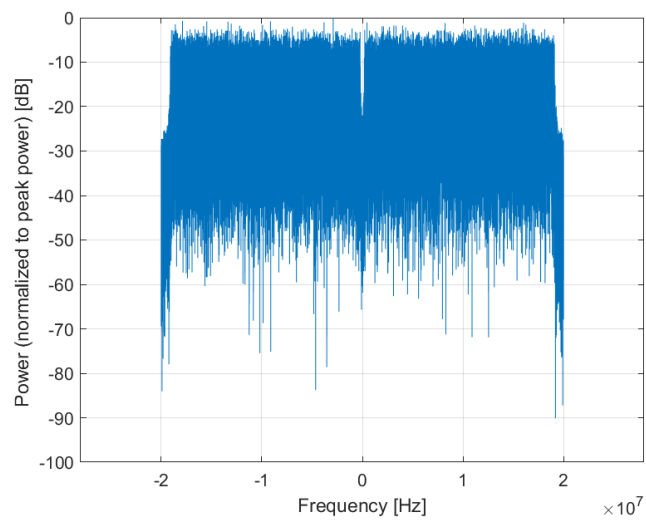
Bandwidth: 40.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

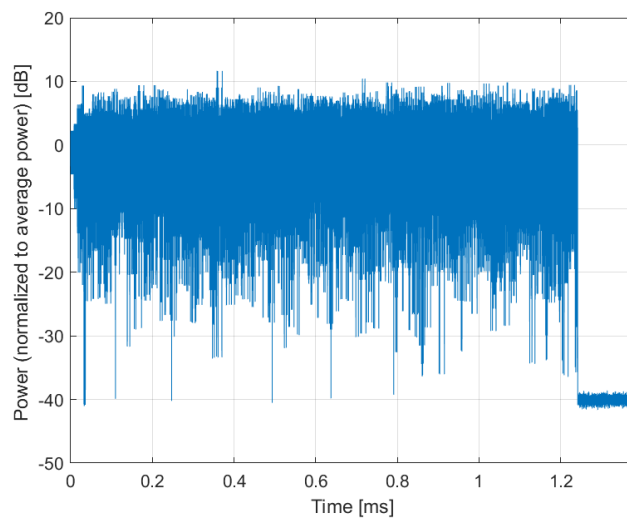
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10696-AAC

PAR: ¹ **8.91 dB**
MIF: ² **-6.77 dB**

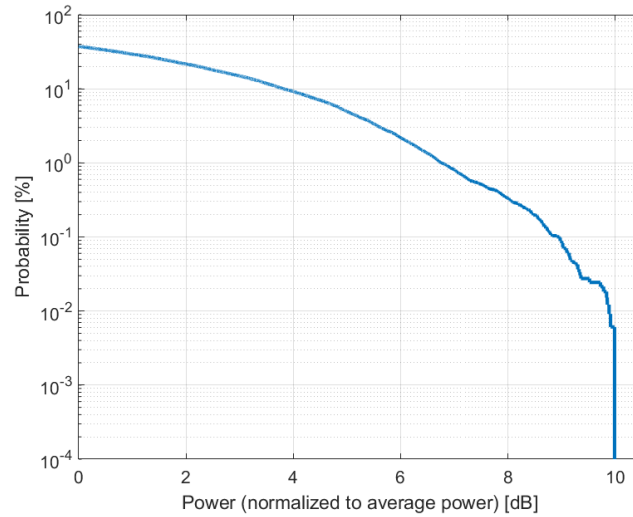
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

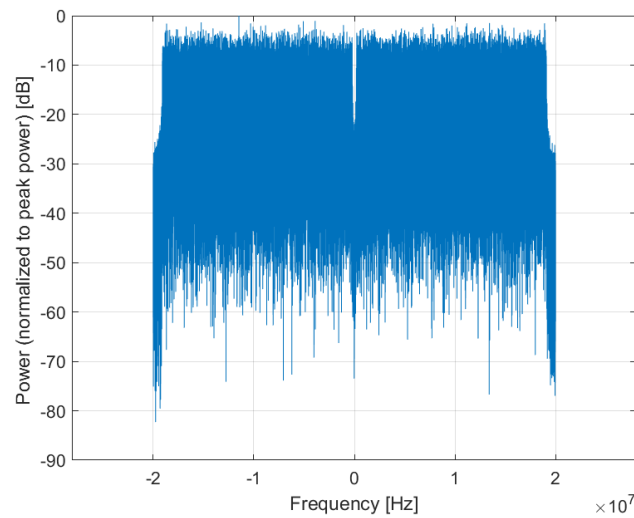
Bandwidth: 40.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

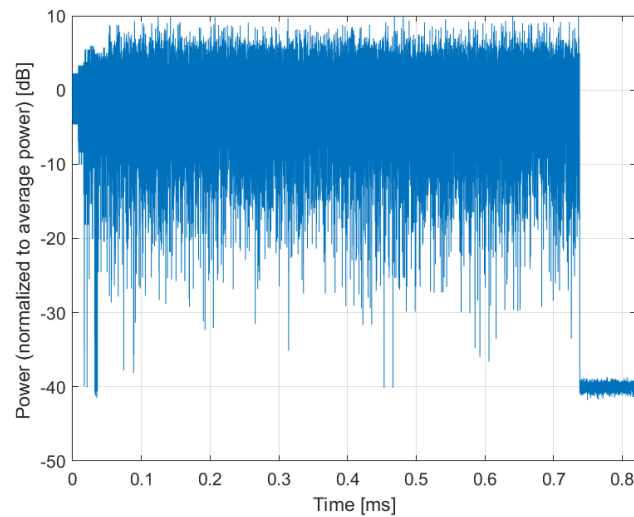
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10697-AAC

PAR: ¹ **8.61 dB**
MIF: ² **-7.05 dB**

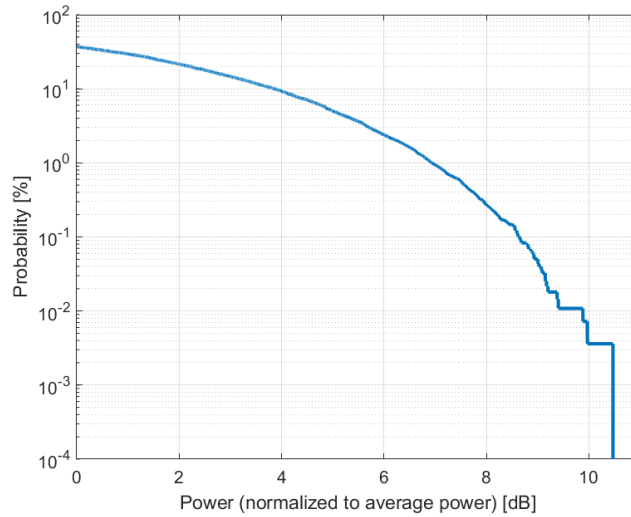
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

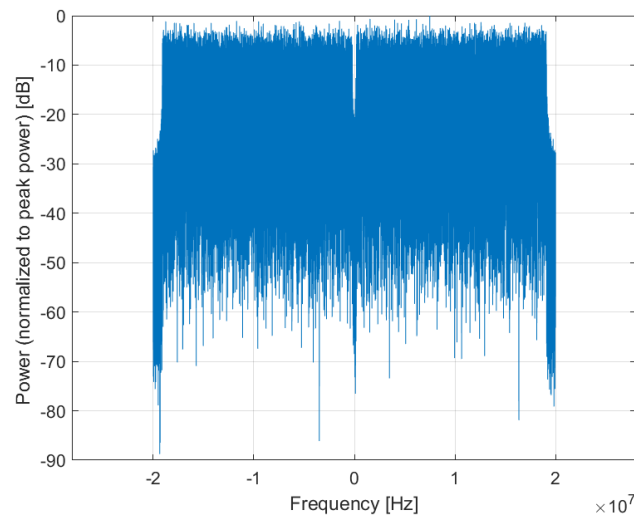
Bandwidth: 40.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

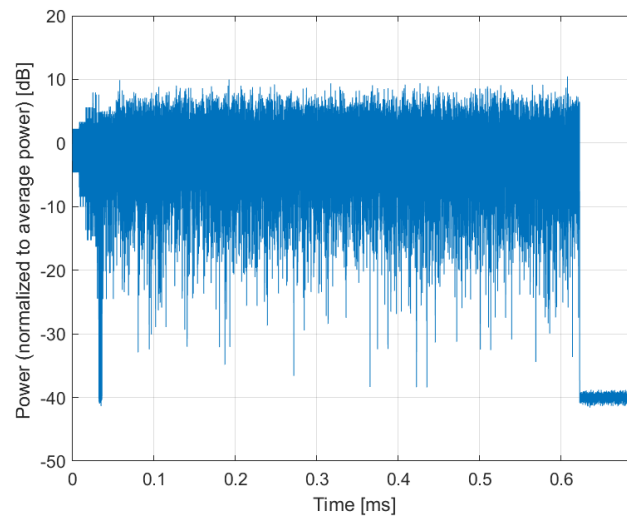
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10698-AAC

PAR: ¹ **8.89 dB**
MIF: ² **-7.10 dB**

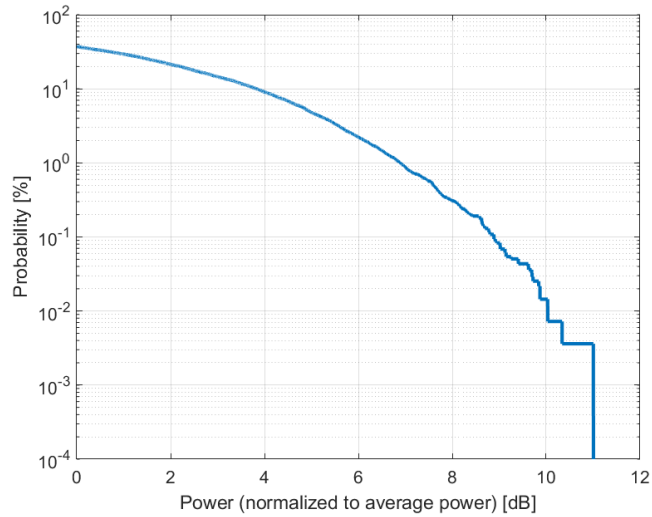
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

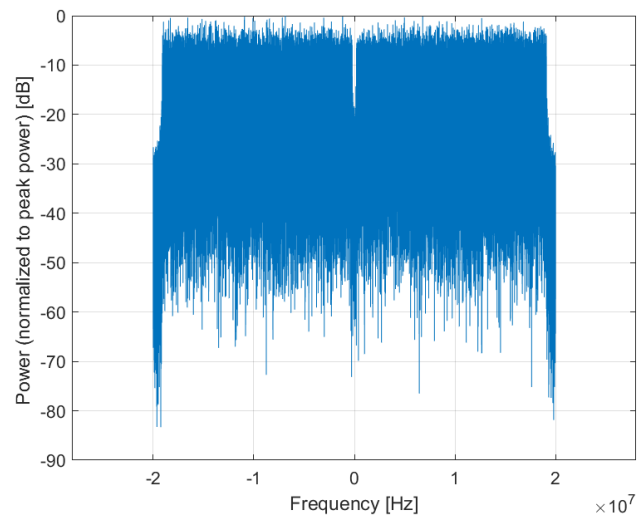
Bandwidth: 40.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

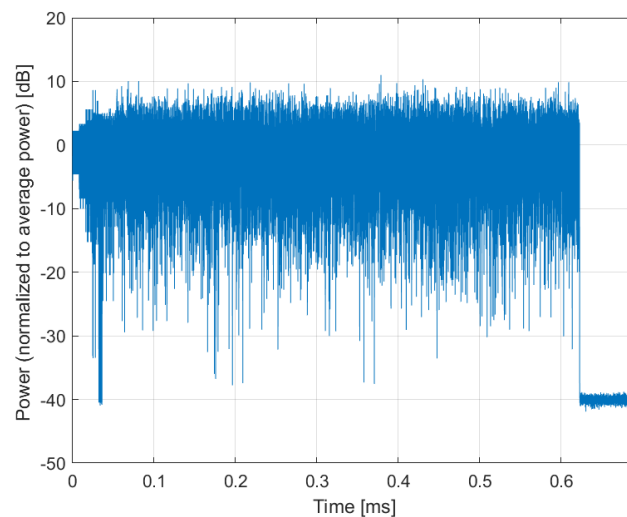
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10699-AAC

PAR: ¹ **8.82 dB**
MIF: ² **-6.03 dB**

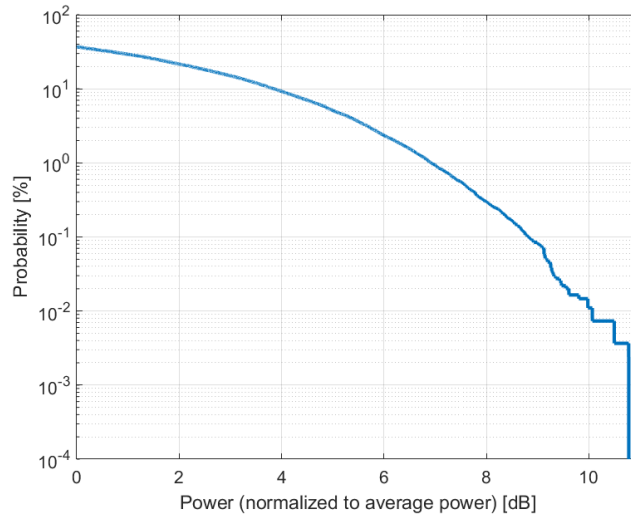
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

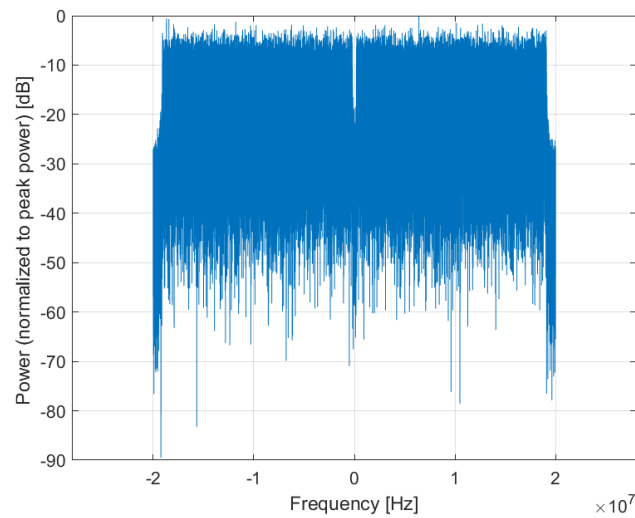
Bandwidth: 40.0 MHz
Integration Time: 1.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

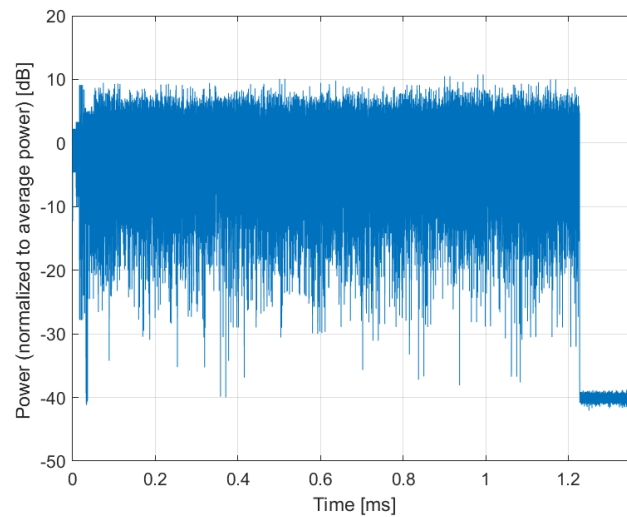
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10700-AAC

PAR: ¹ **8.73 dB**
MIF: ² **-6.46 dB**

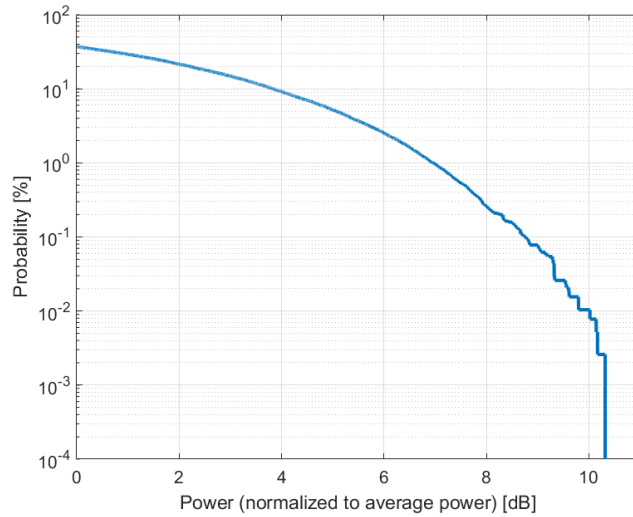
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

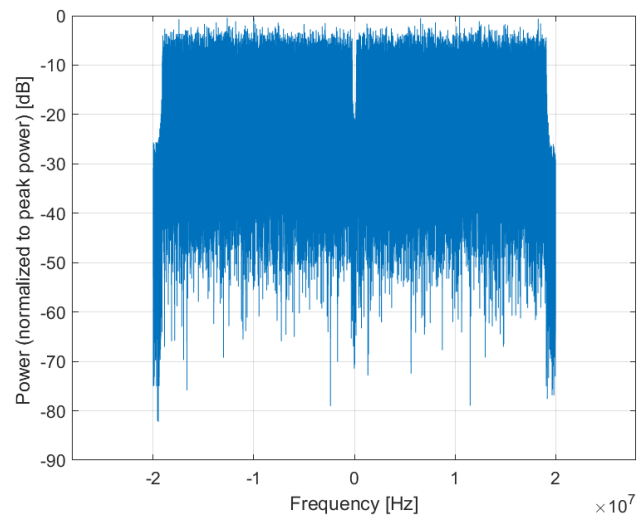
Bandwidth: 40.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

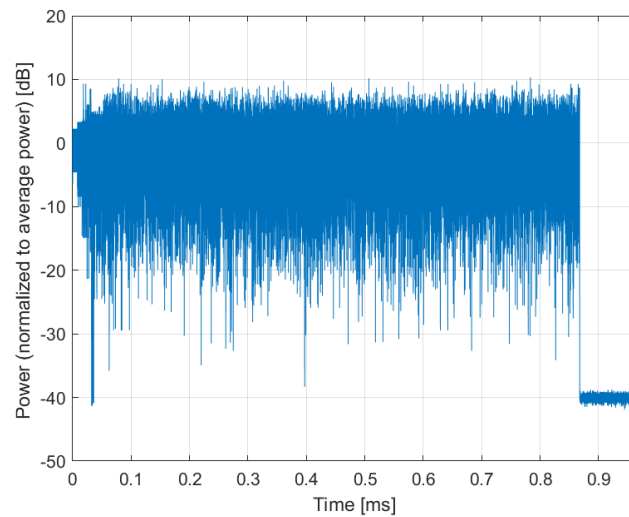
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10701-AAC

PAR: ¹ **8.86 dB**
MIF: ² **-6.51 dB**

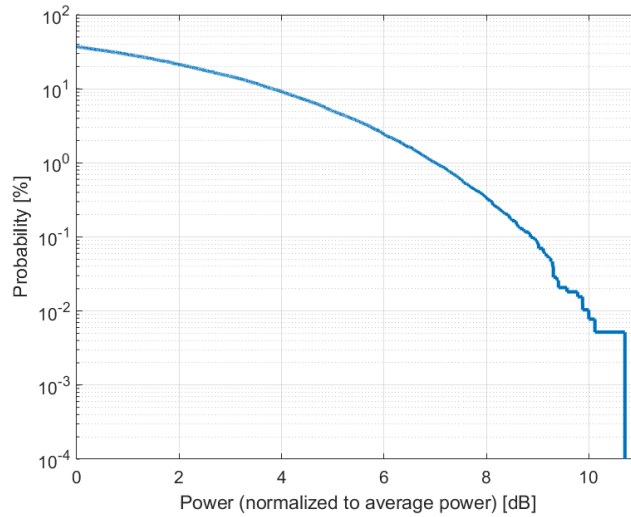
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

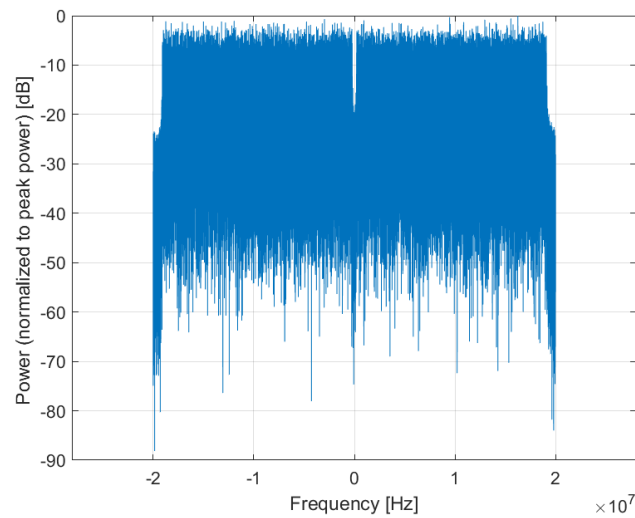
Bandwidth: 40.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

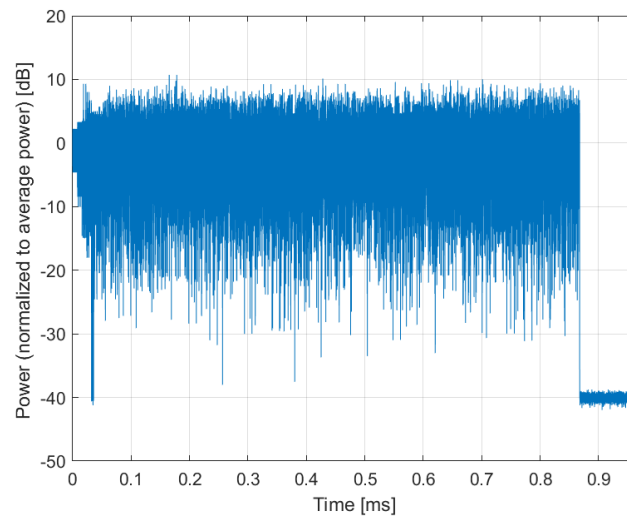
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10702-AAC

PAR: ¹ **8.70 dB**
MIF: ² **-6.29 dB**

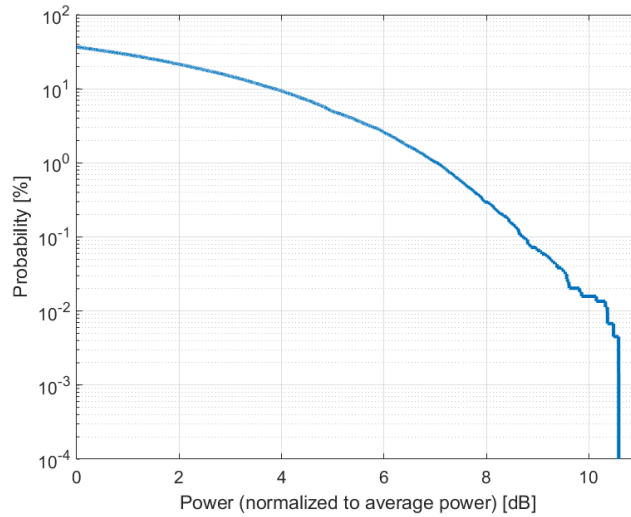
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

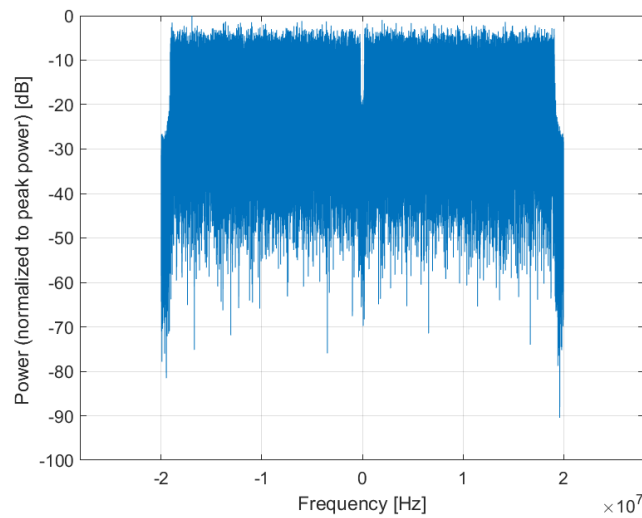
Bandwidth: 40.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

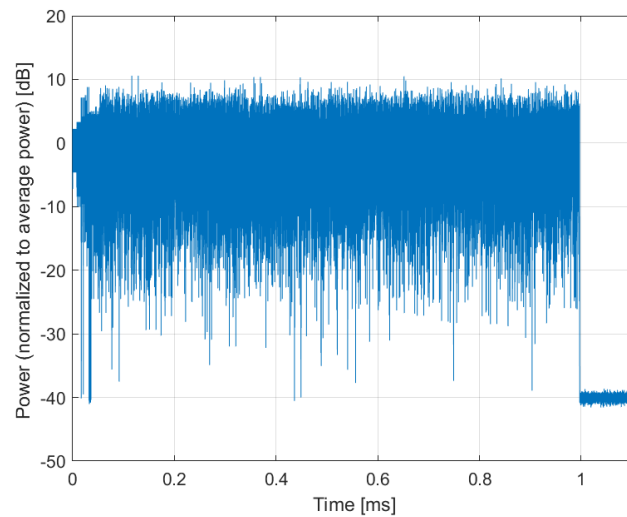
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10703-AAC

PAR: ¹ **8.82 dB**
MIF: ² **-6.15 dB**

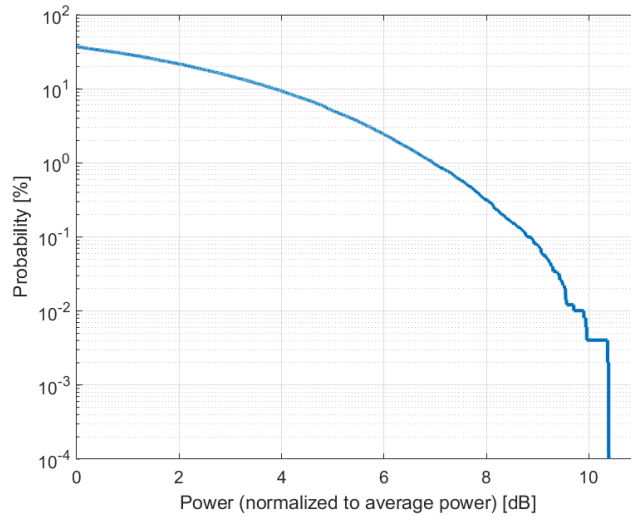
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

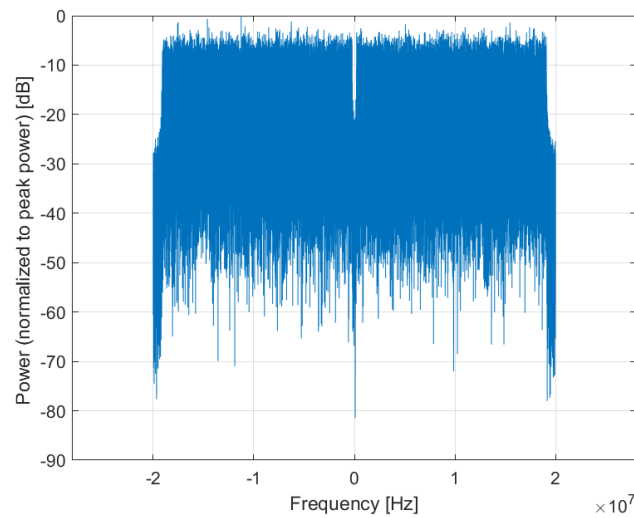
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

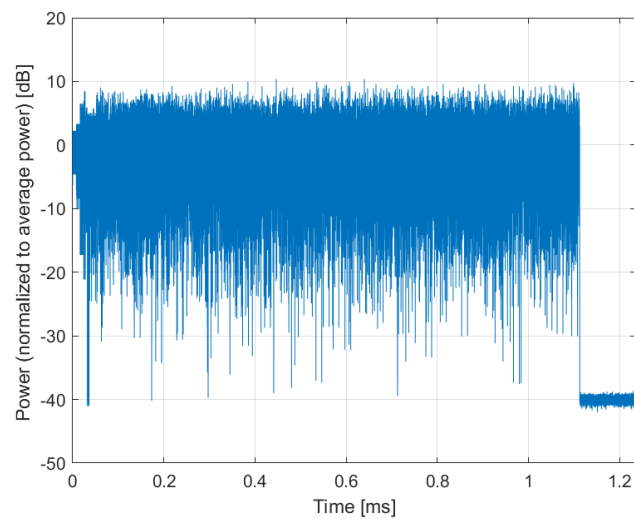
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10704-AAC

PAR: ¹ **8.56 dB**
MIF: ² **-6.15 dB**

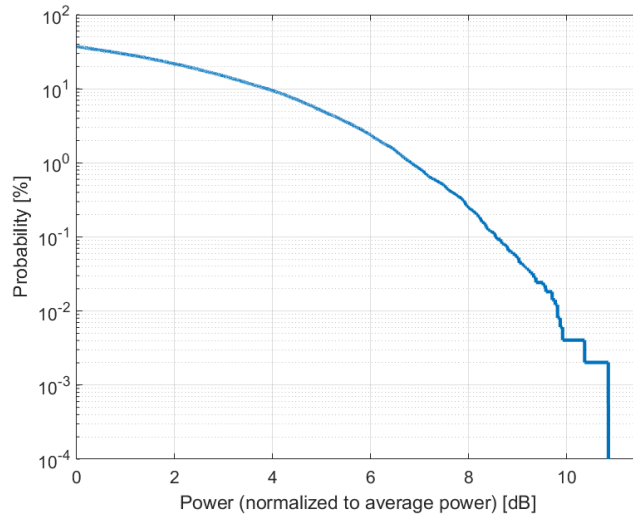
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

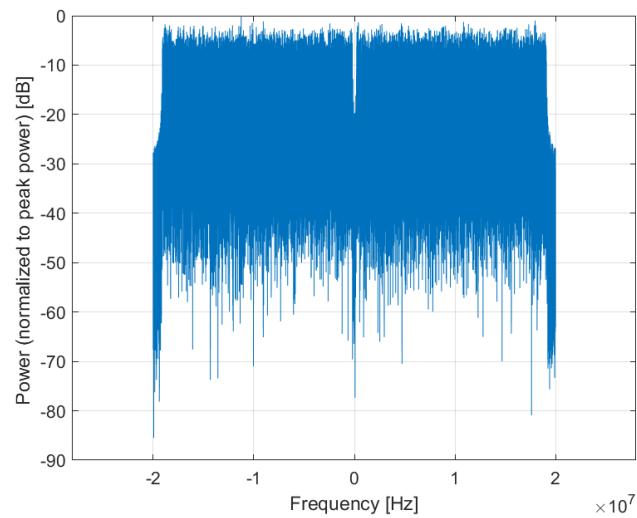
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

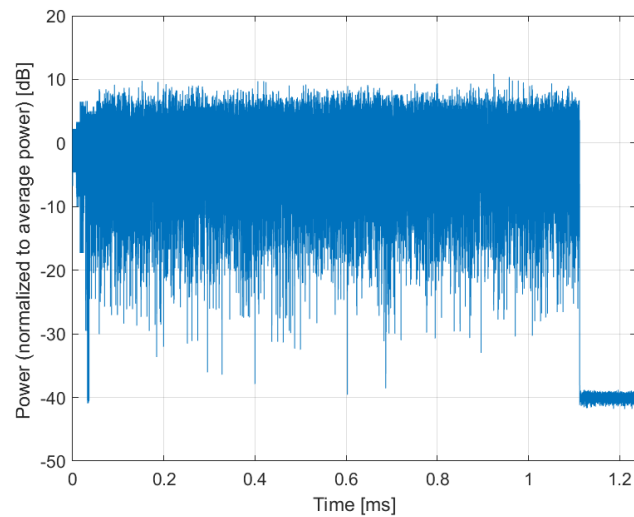
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)**

Group: WLAN
UID: 10705-AAC

PAR: ¹ **8.69 dB**
MIF: ² **-6.16 dB**

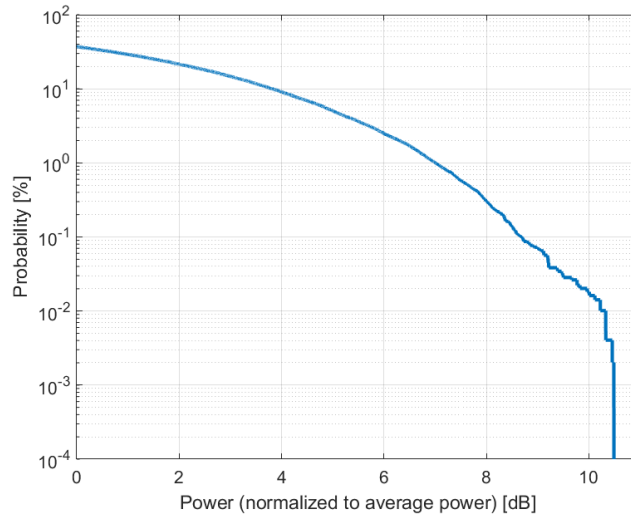
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

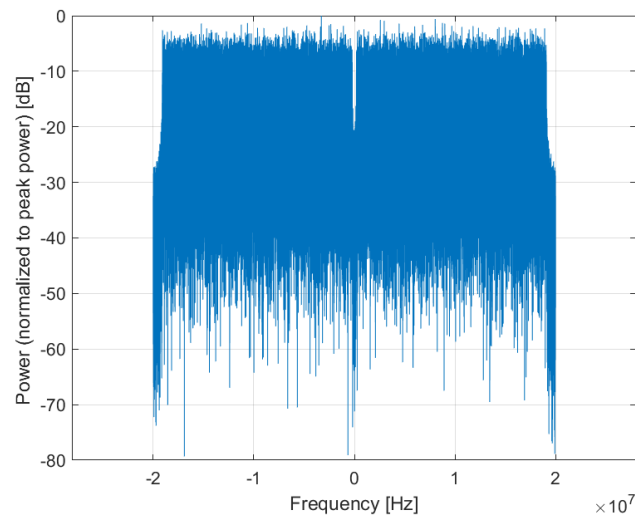
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

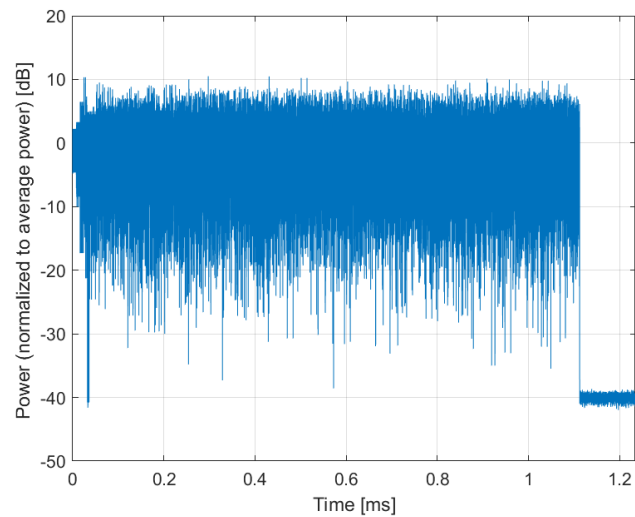
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)**

Group: WLAN
UID: 10706-AAC

PAR: ¹ **8.66 dB**
MIF: ² **-6.18 dB**

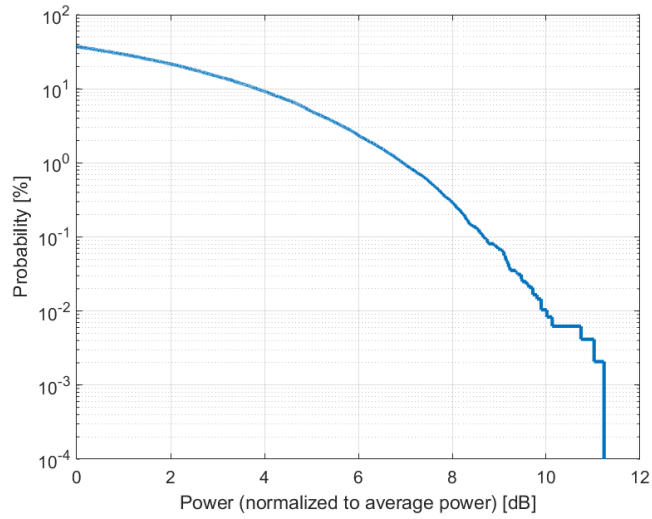
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 90%
Number of spatial stream: 1

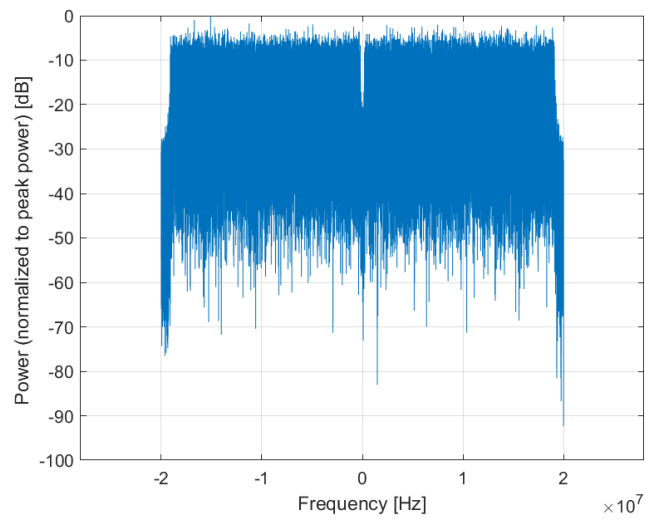
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

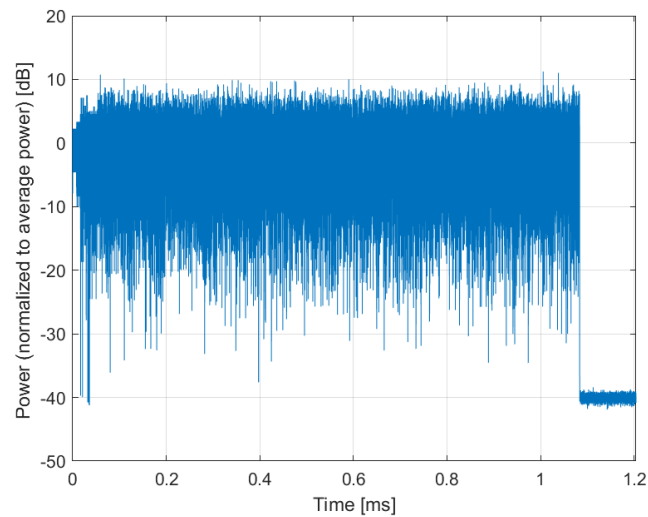
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10707-AAC

PAR: ¹ **8.32 dB**
MIF: ² **-20.01 dB**

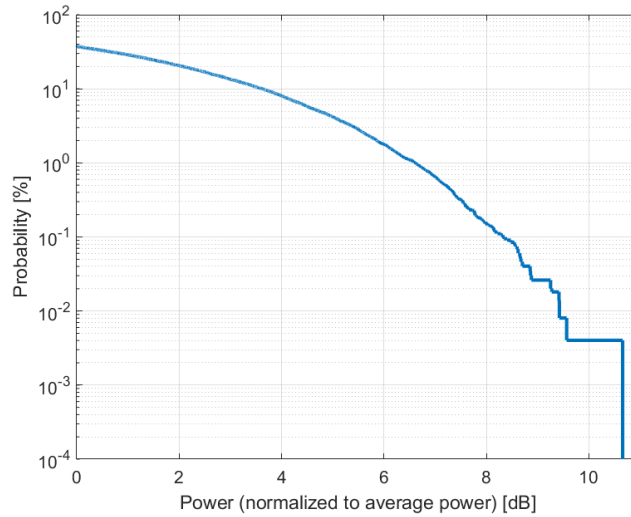
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

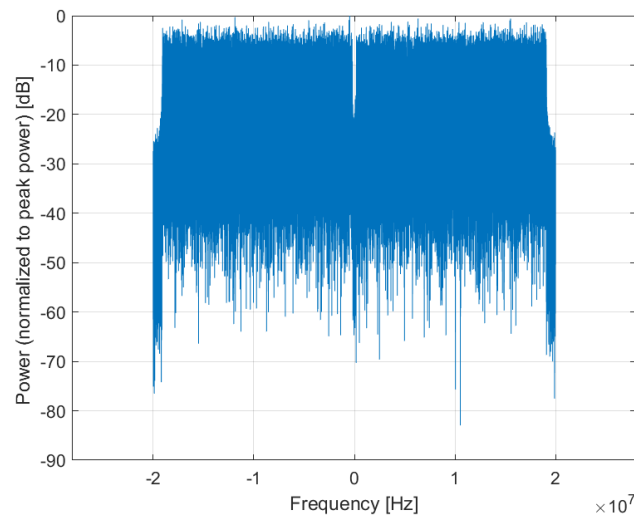
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

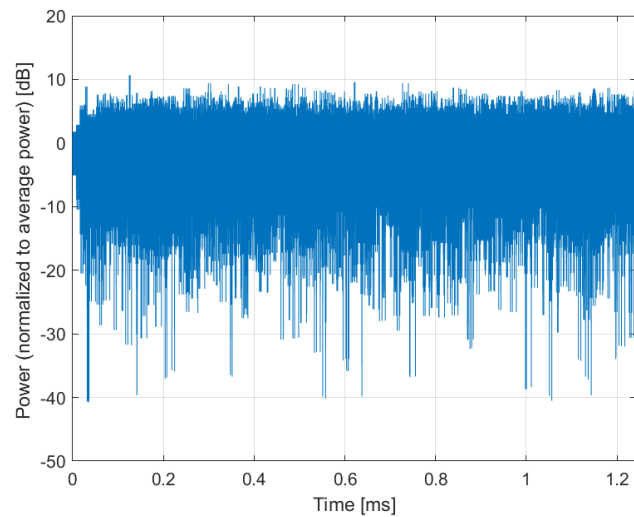
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



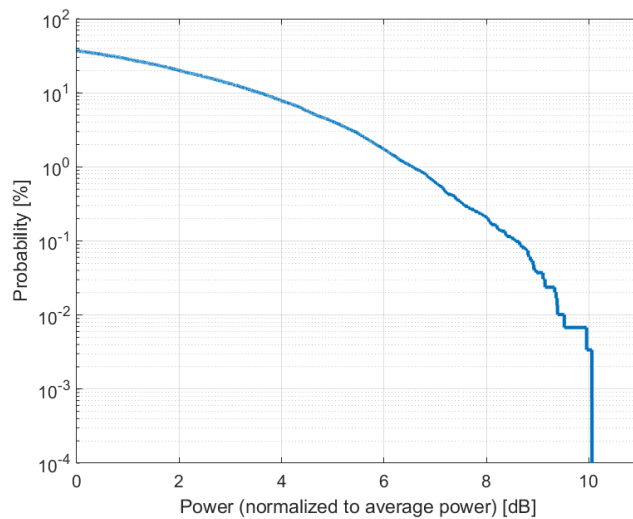
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

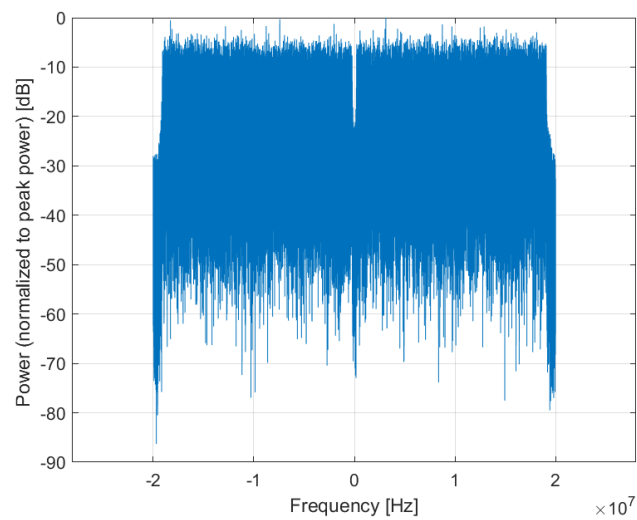
| | |
|-------------------------|--|
| Name: | IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10708-AAC |
| PAR: ¹ | 8.55 dB |
| MIF: ² | -18.61 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5.825 - 5.925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 40MHz Duty Cycle: 99% Number of spatial stream: 1 |
| Bandwidth: | 40.0 MHz |
| Integration Time: | 0.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

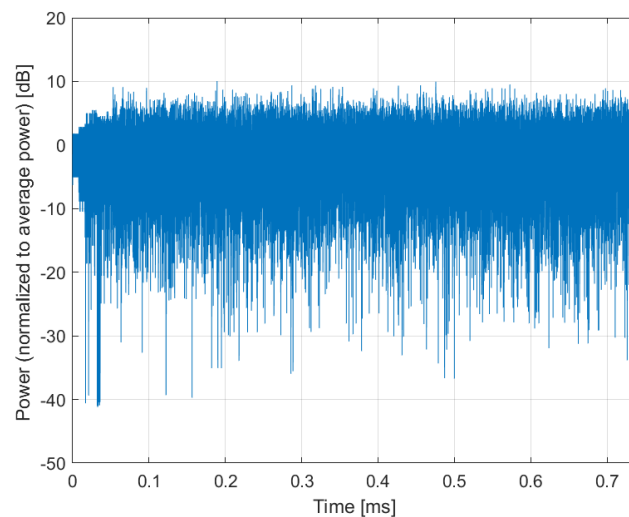
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10709-AAC

PAR: ¹ **8.33 dB**
MIF: ² **-18.46 dB**

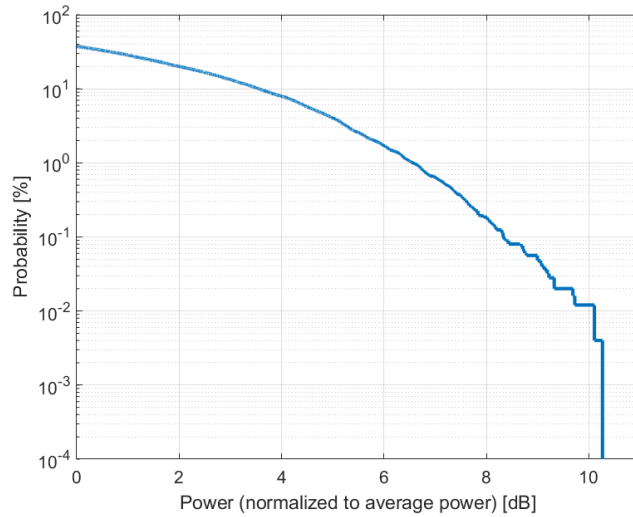
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

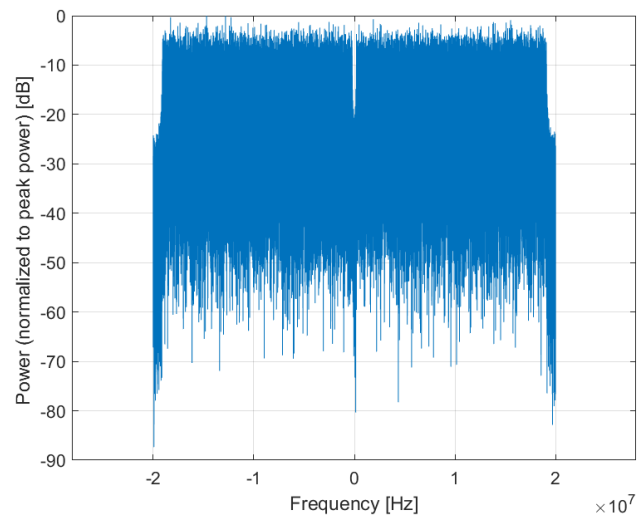
Bandwidth: 40.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

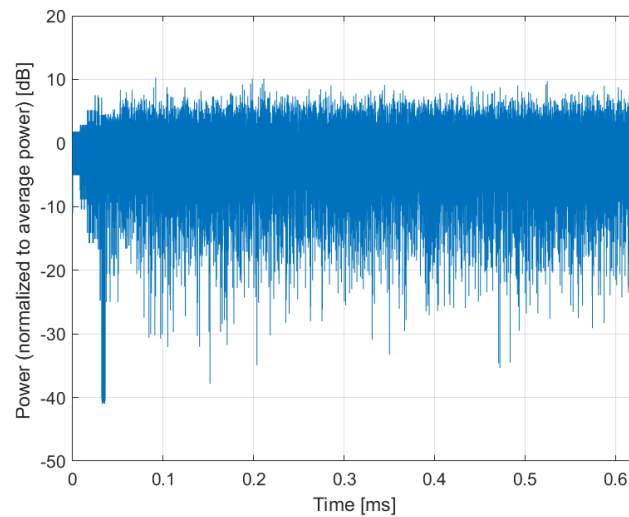
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10710-AAC

PAR: ¹ **8.29 dB**
MIF: ² **-18.54 dB**

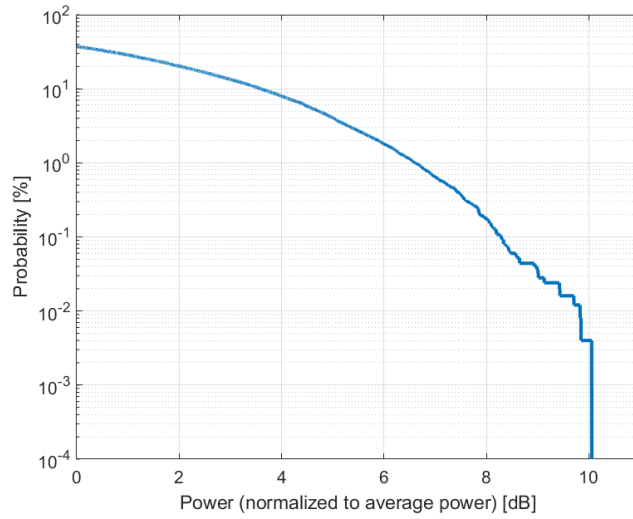
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

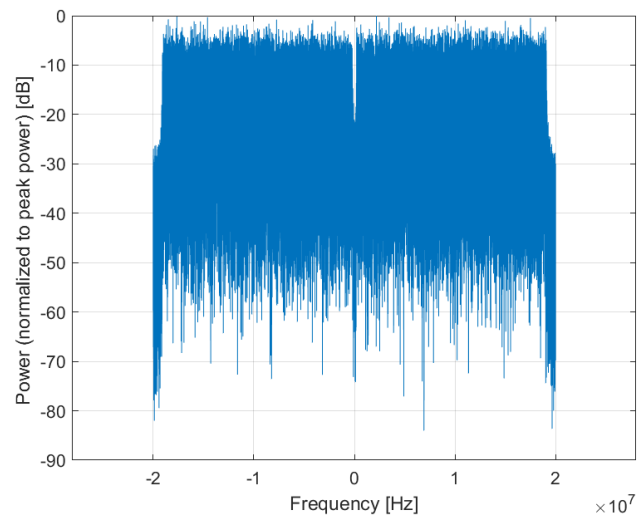
Bandwidth: 40.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

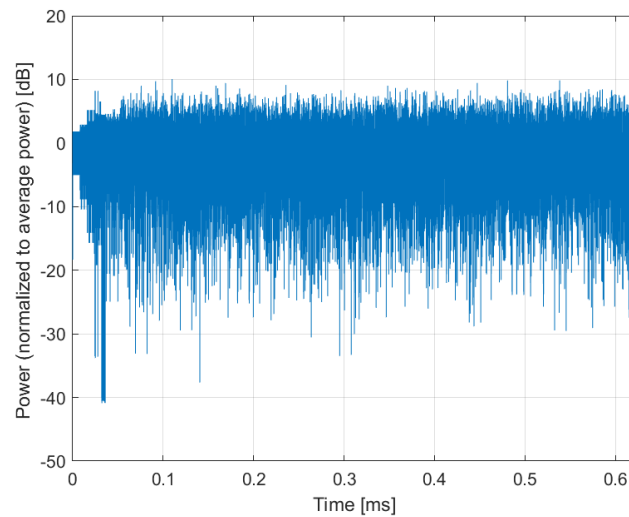
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10711-AAC

PAR: ¹ **8.39 dB**
MIF: ² **-19.40 dB**

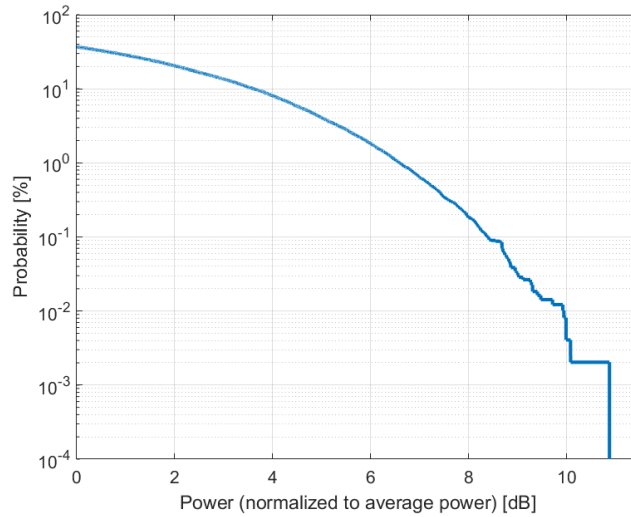
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

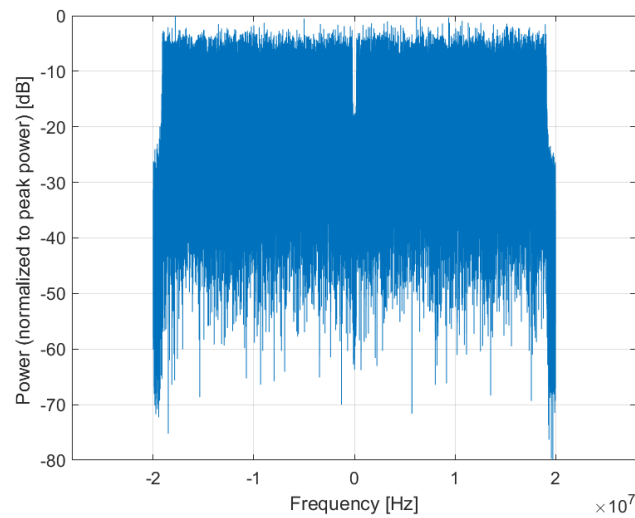
Bandwidth: 40.0 MHz
Integration Time: 1.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

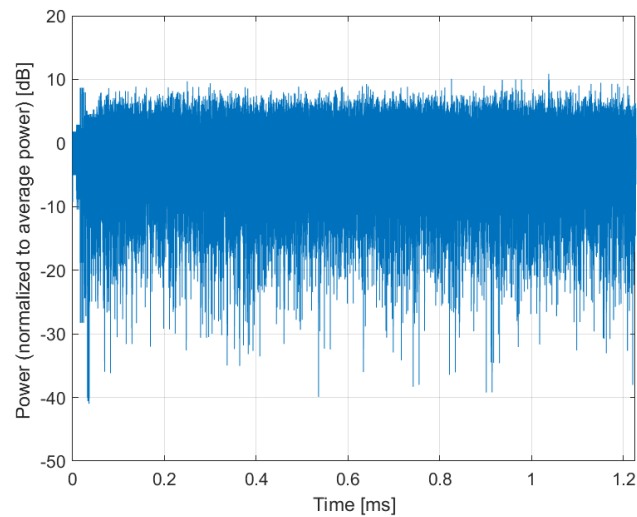
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)**

Group: WLAN
UID: 10712-AAC

PAR: ¹ **8.67 dB**
MIF: ² **-17.58 dB**

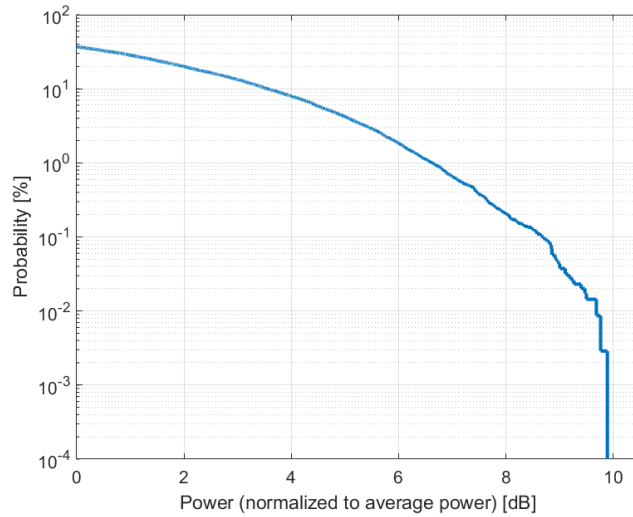
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

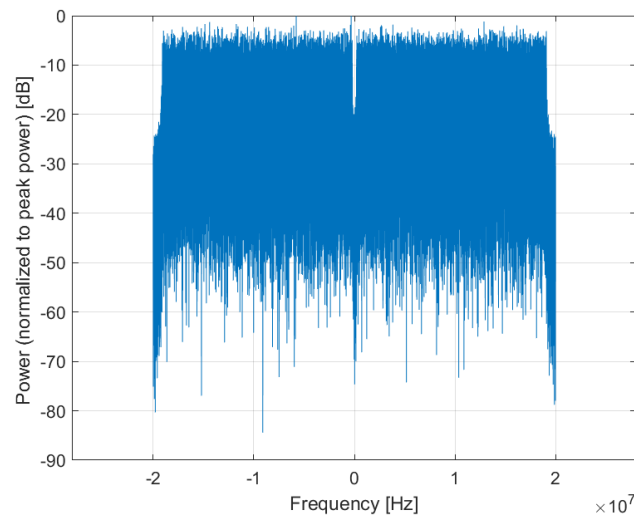
Bandwidth: 40.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

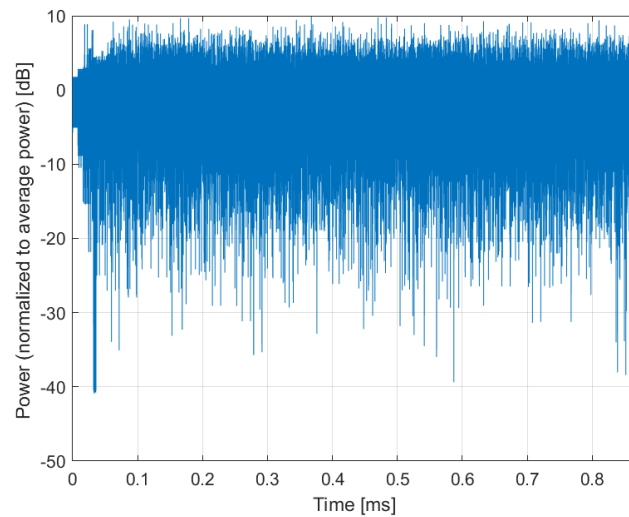
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10713-AAC

PAR: ¹ **8.33 dB**
MIF: ² **-19.24 dB**

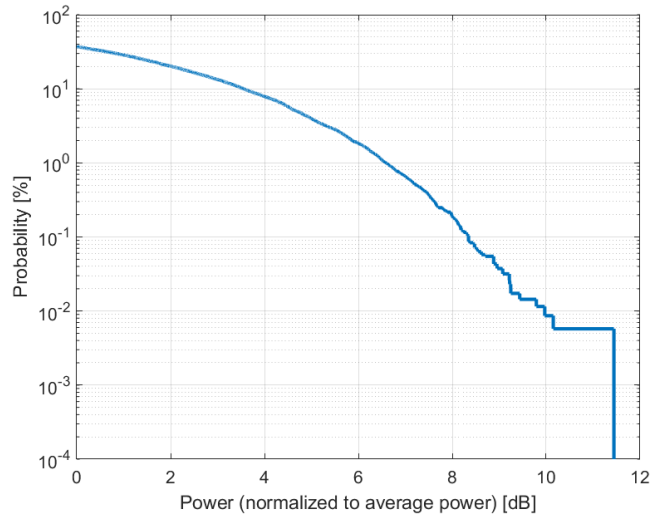
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

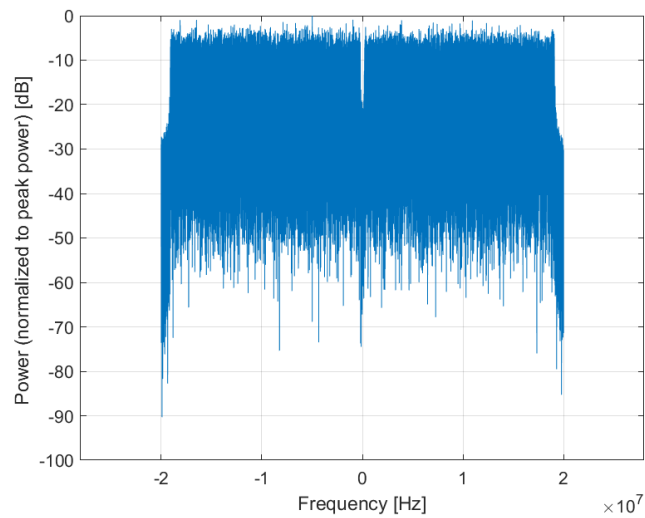
Bandwidth: 40.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

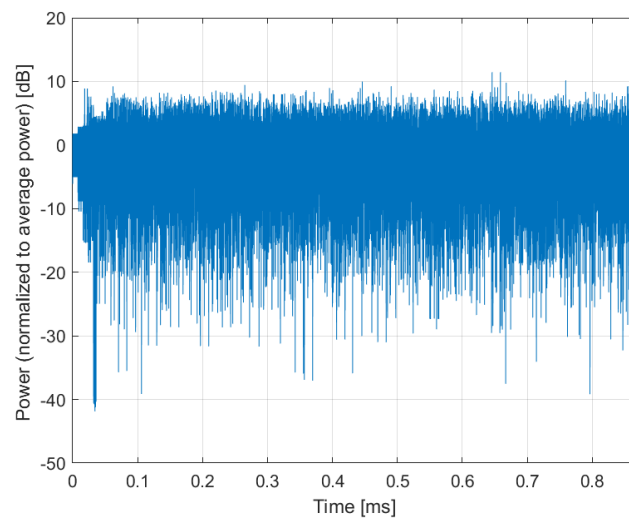
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10714-AAC

PAR: ¹ **8.26 dB**
MIF: ² **-19.01 dB**

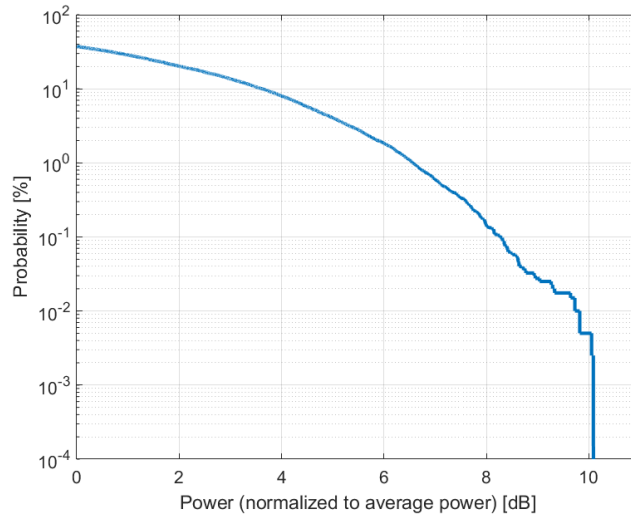
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

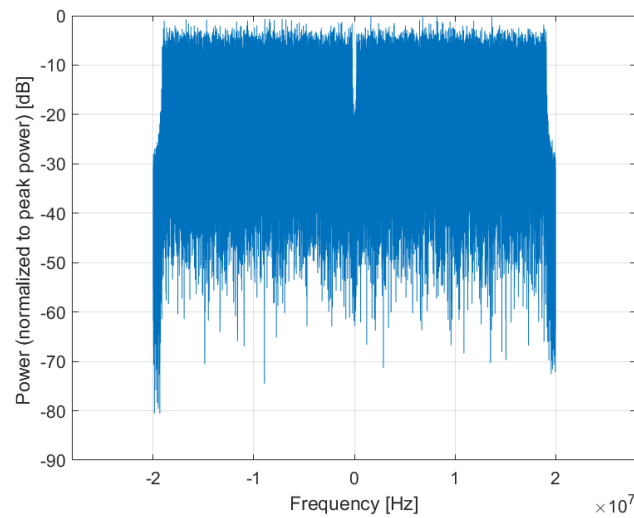
Bandwidth: 40.0 MHz
Integration Time: 1.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

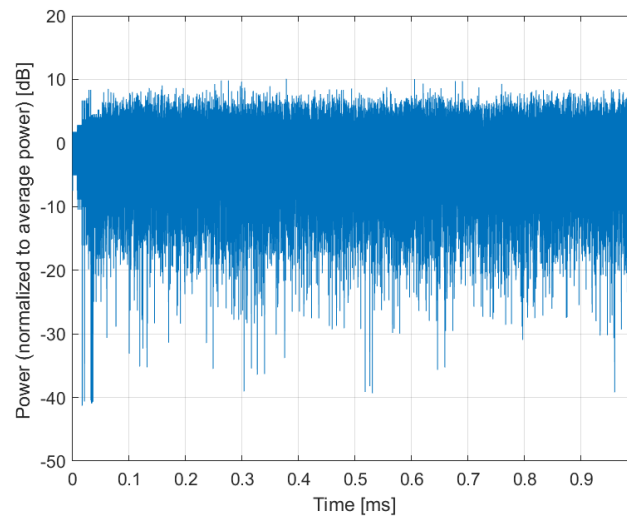
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10715-AAC

PAR: ¹ **8.45 dB**
MIF: ² **-19.04 dB**

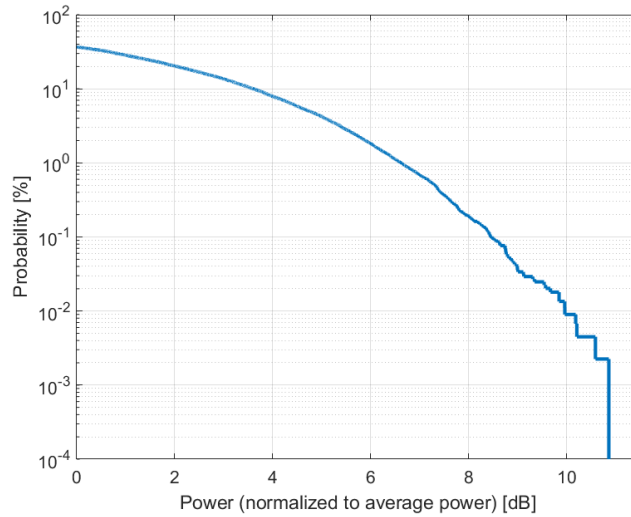
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

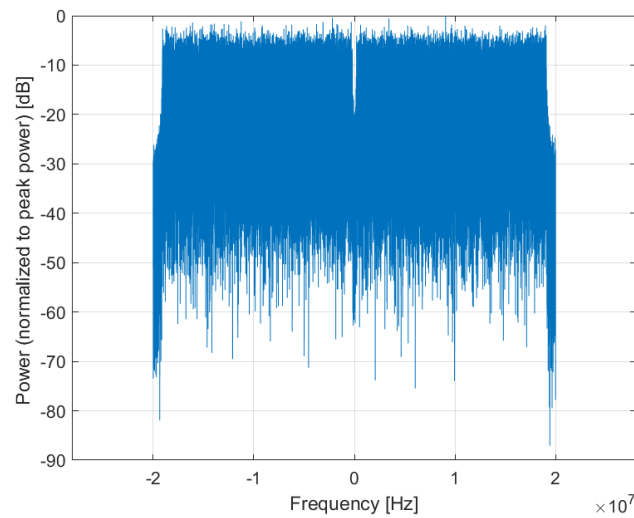
Bandwidth: 40.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

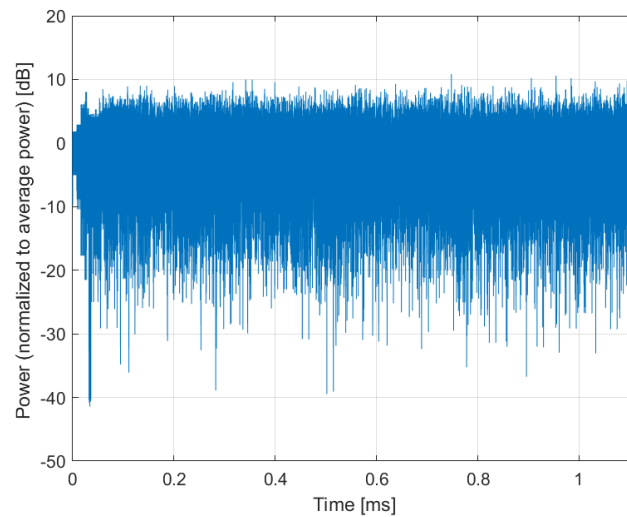
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10716-AAC

PAR: ¹ **8.30 dB**
MIF: ² **-17.95 dB**

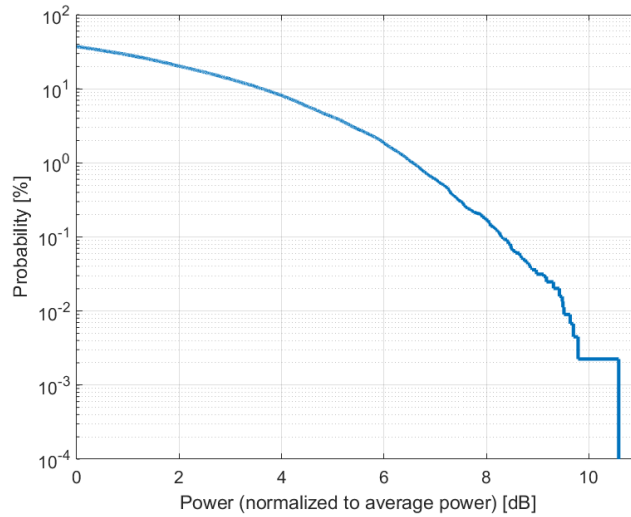
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

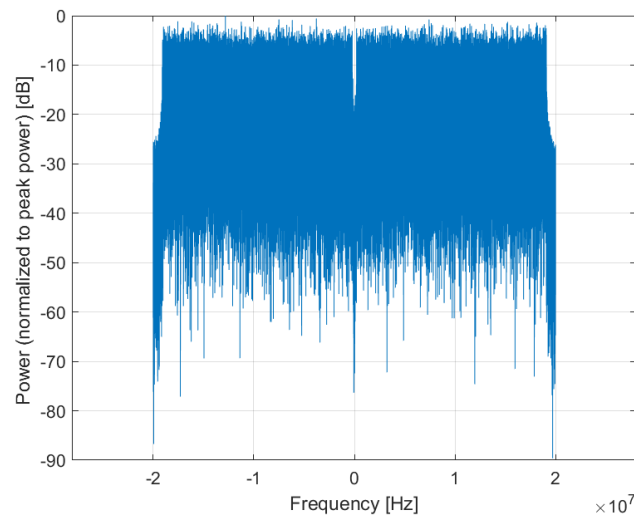
Bandwidth: 40.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

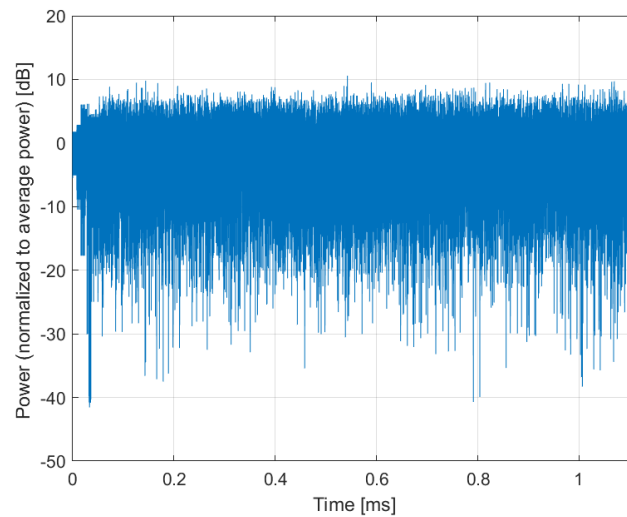
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)**

Group: WLAN
UID: 10717-AAC

PAR: ¹ **8.48 dB**
MIF: ² **-18.12 dB**

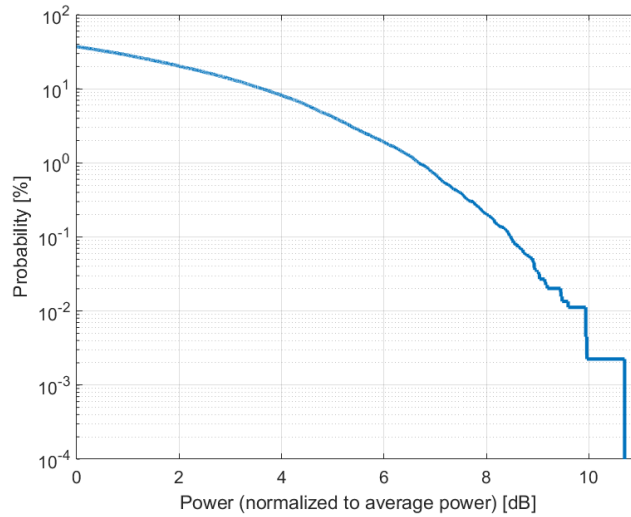
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

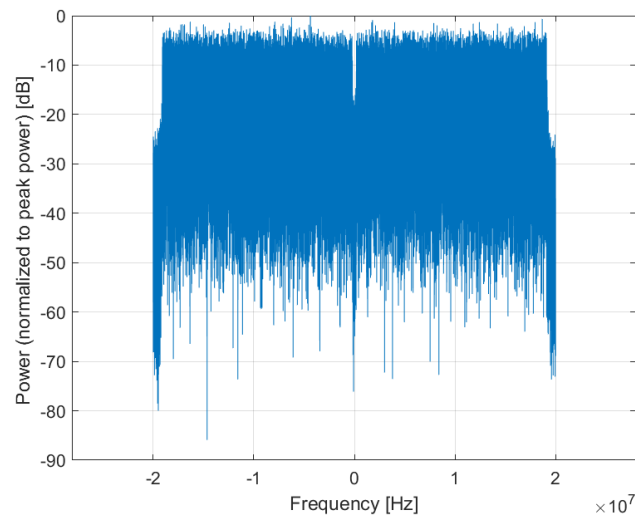
Bandwidth: 40.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

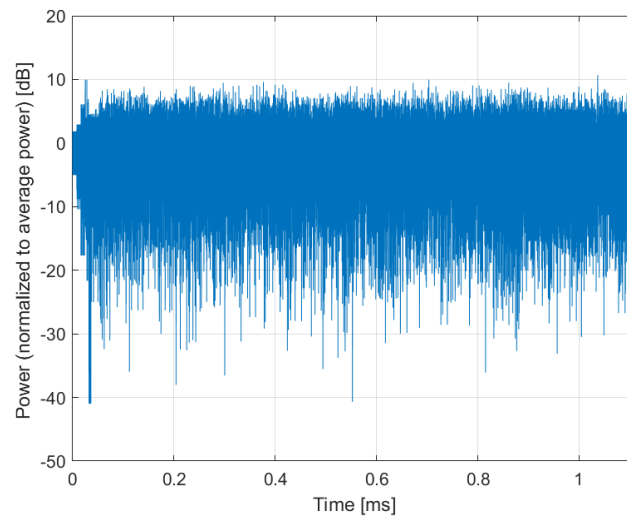
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)**

Group: WLAN
UID: 10718-AAC

PAR: ¹ **8.24 dB**
MIF: ² **-17.88 dB**

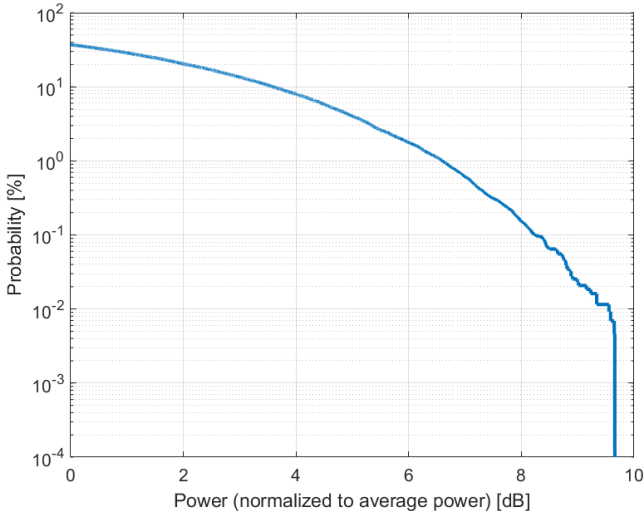
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 40MHz
Duty Cycle: 99%
Number of spatial stream: 1

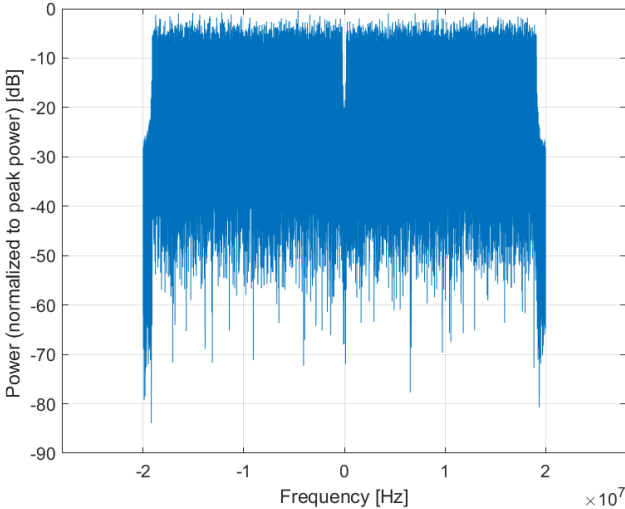
Bandwidth: 40.0 MHz
Integration Time: 1.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

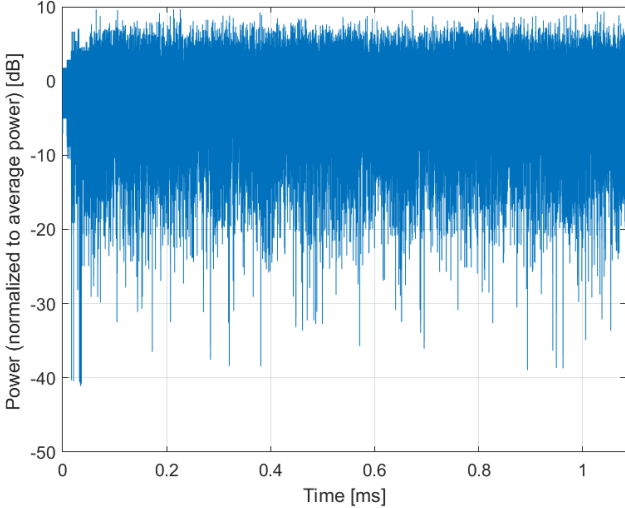
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10719-AAC

PAR: ¹ **8.81 dB**
MIF: ² **-6.04 dB**

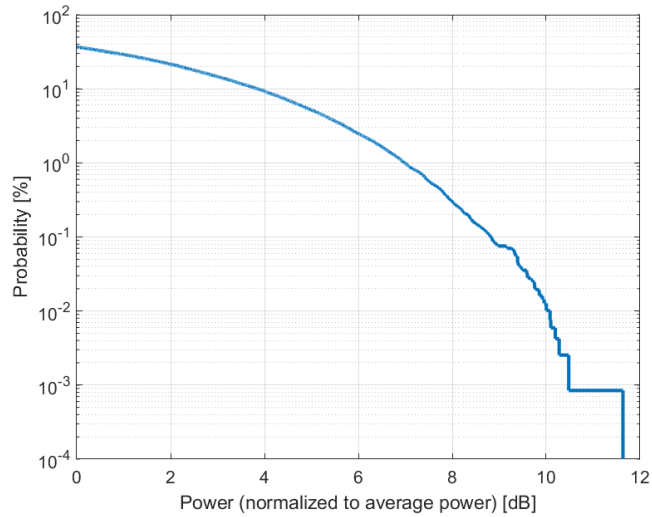
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

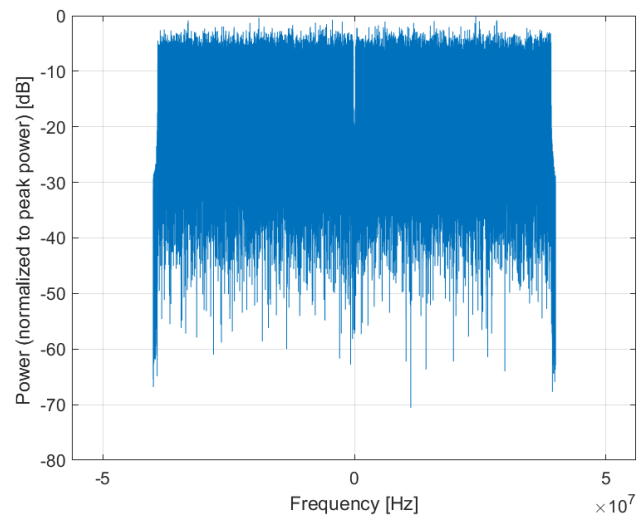
Bandwidth: 80.0 MHz
Integration Time: 1.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

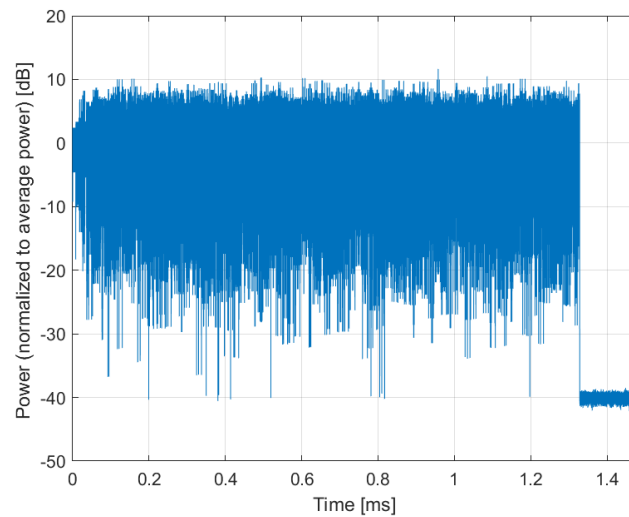
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10720-AAC

PAR: ¹ **8.87 dB**
MIF: ² **-6.84 dB**

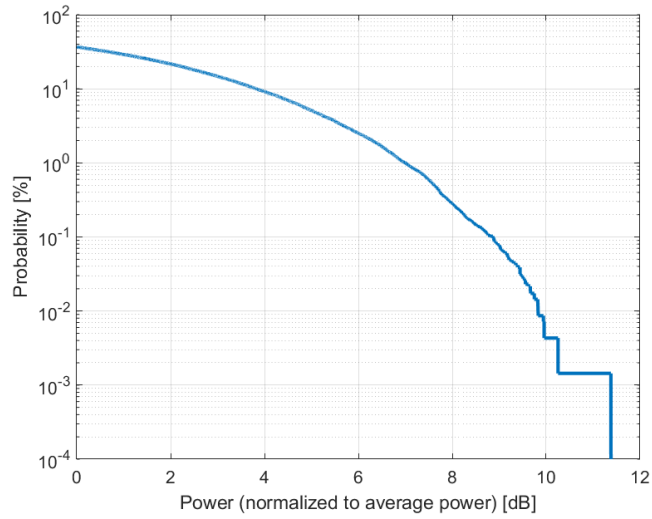
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

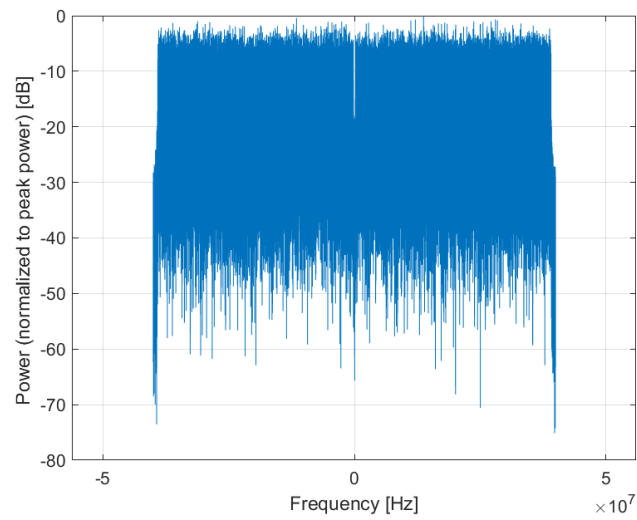
Bandwidth: 80.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

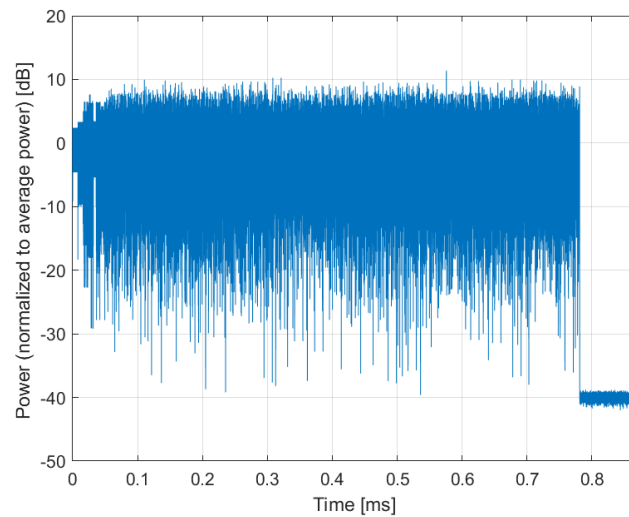
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10721-AAC

PAR: ¹ **8.76 dB**
MIF: ² **-7.16 dB**

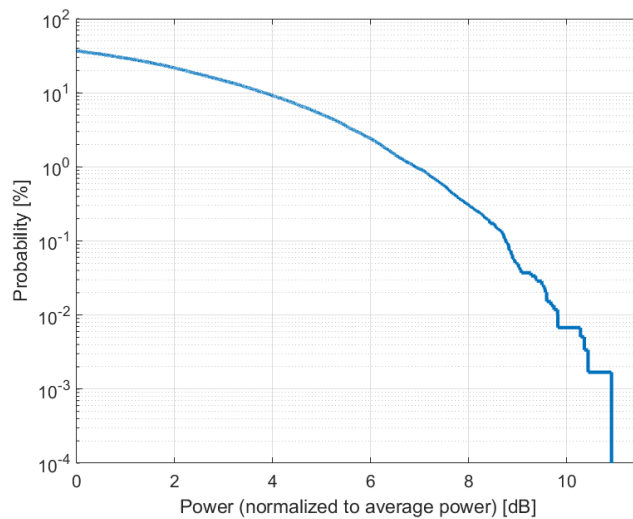
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

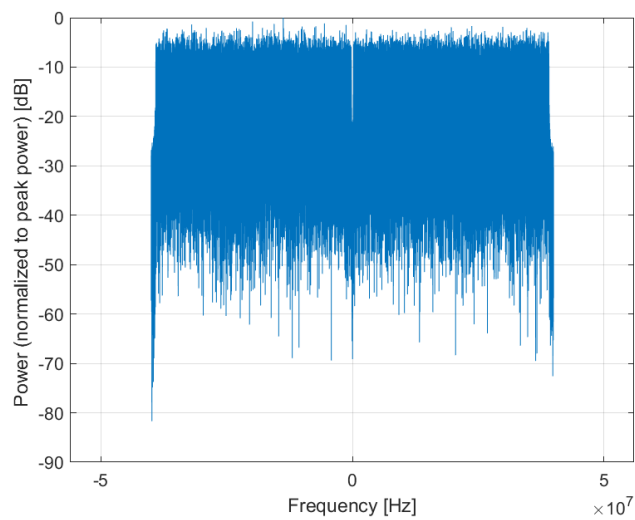
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

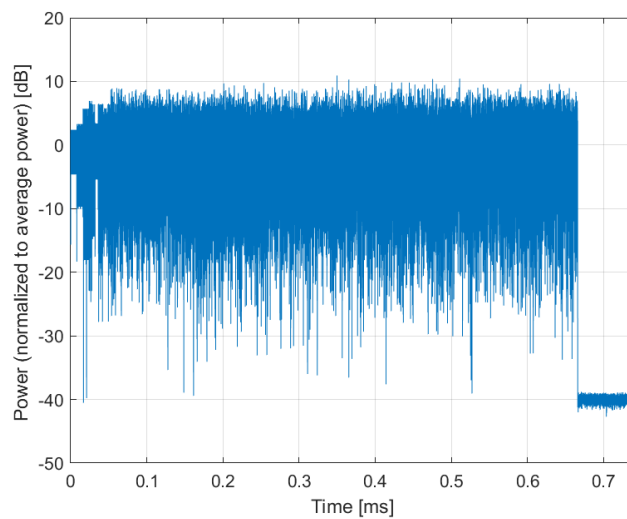
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10722-AAC

PAR: ¹ **8.55 dB**
MIF: ² **-7.57 dB**

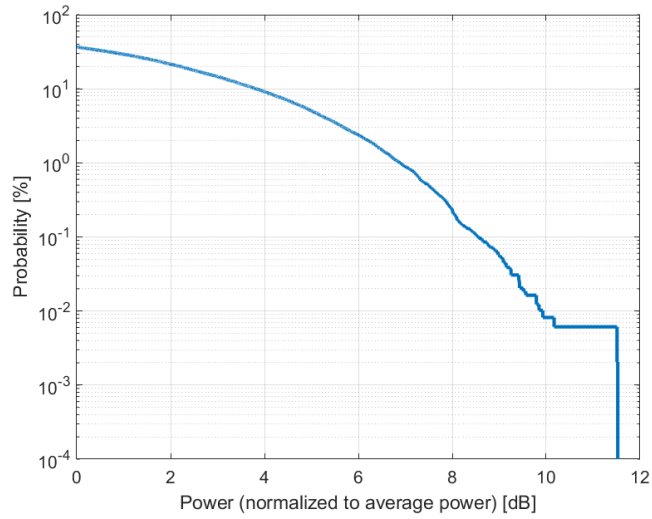
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

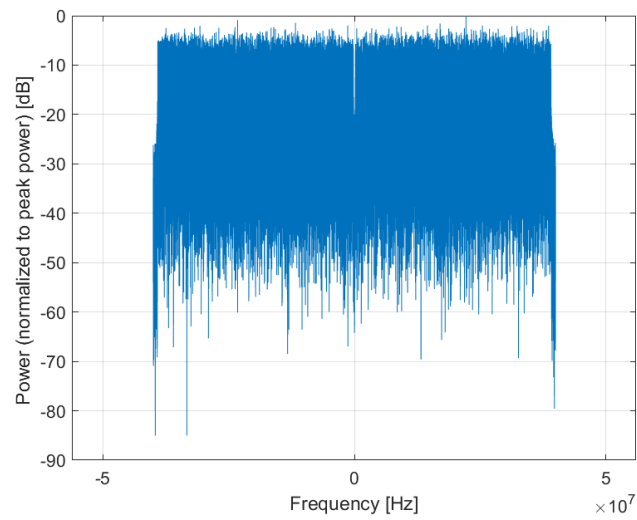
Bandwidth: 80.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

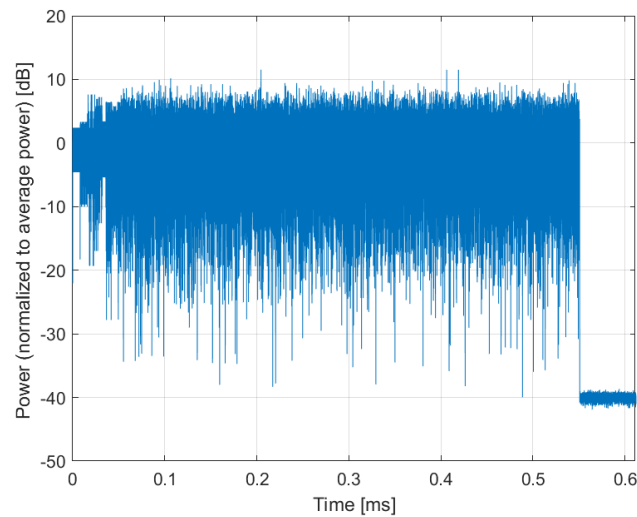
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10723-AAC

PAR: ¹ **8.70 dB**
MIF: ² **-7.09 dB**

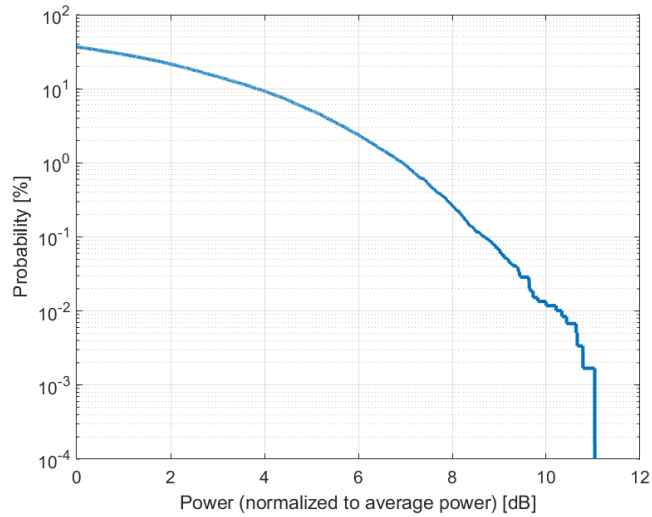
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

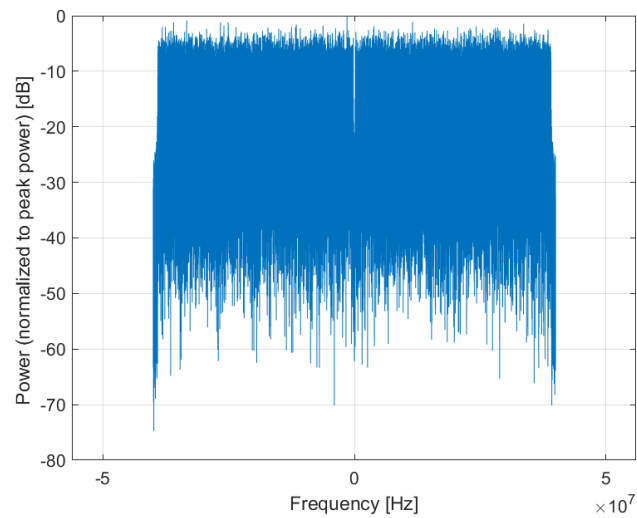
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

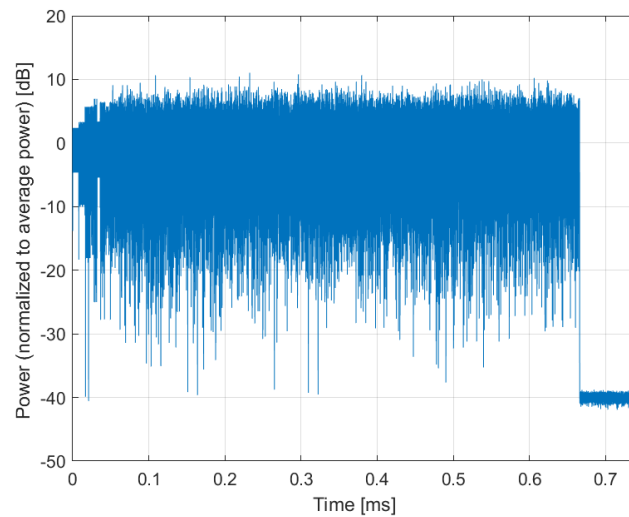
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10724-AAC

PAR: ¹ **8.90 dB**
MIF: ² **-7.57 dB**

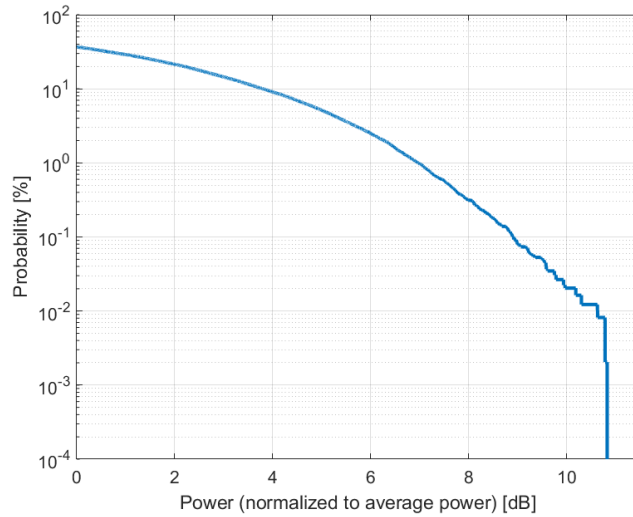
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

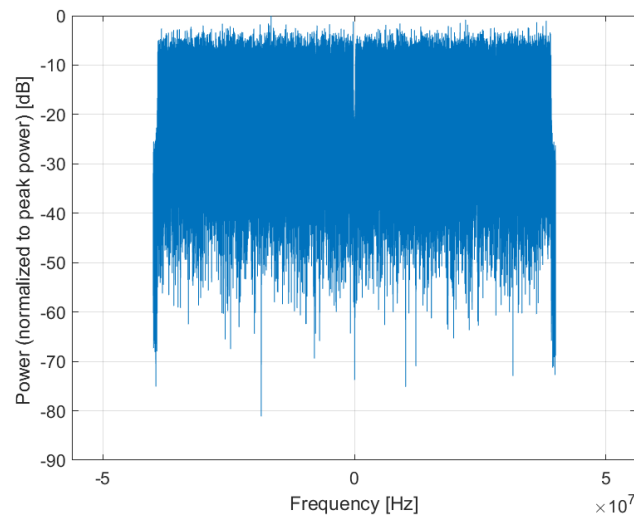
Bandwidth: 80.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

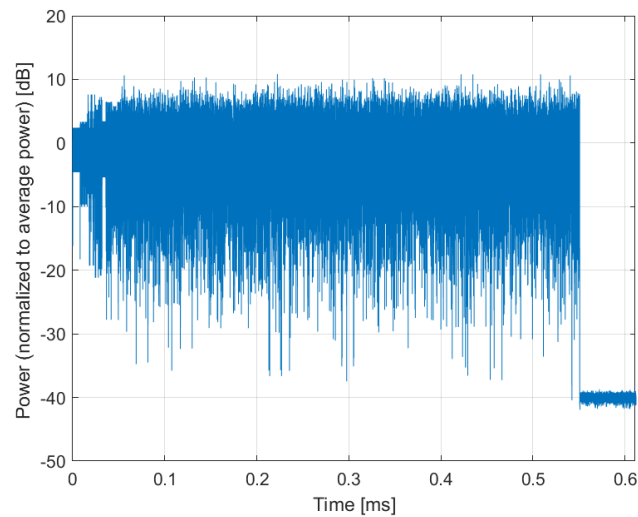
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10725-AAC

PAR: ¹ **8.74 dB**
MIF: ² **-7.16 dB**

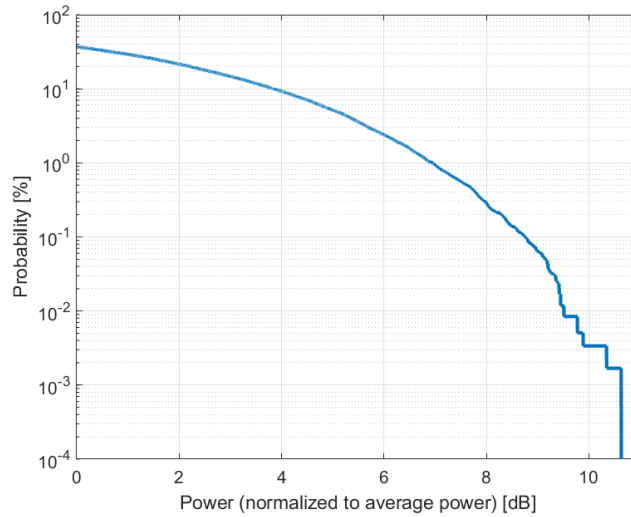
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

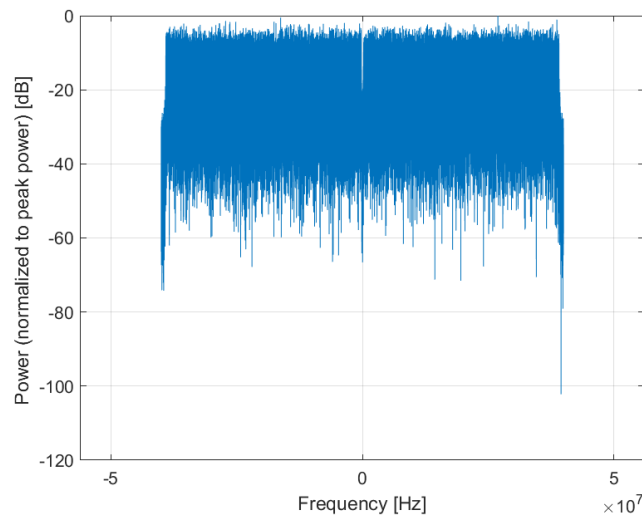
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

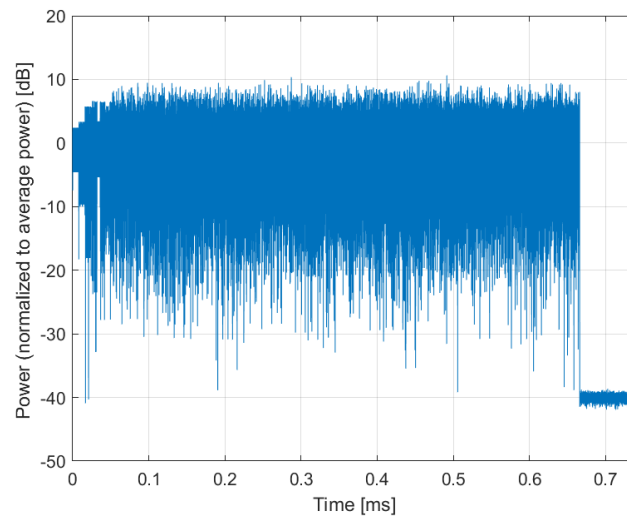
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10726-AAC

PAR: ¹ **8.72 dB**
MIF: ² **-7.10 dB**

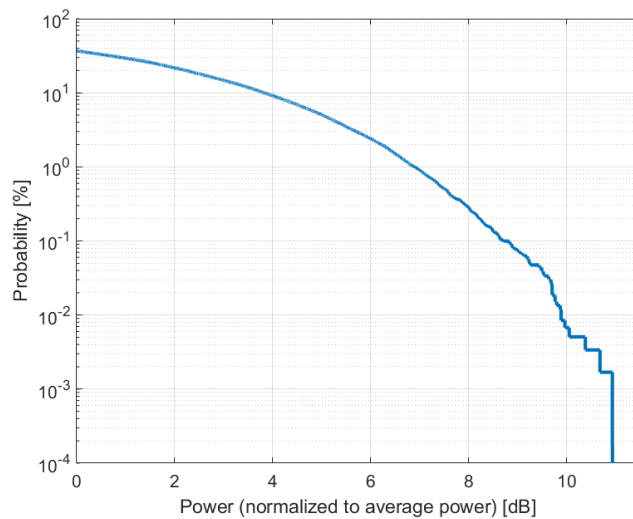
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

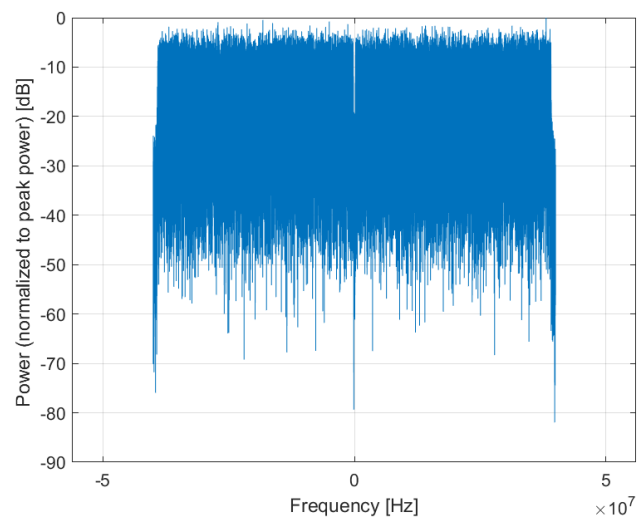
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

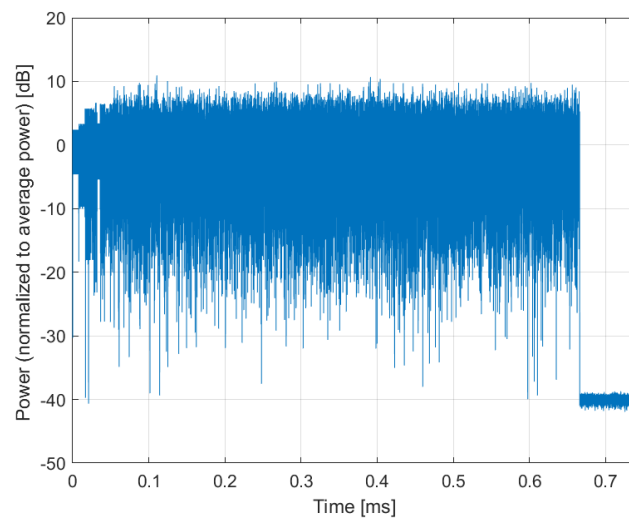
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10727-AAC

PAR: ¹ **8.66 dB**
MIF: ² **-7.09 dB**

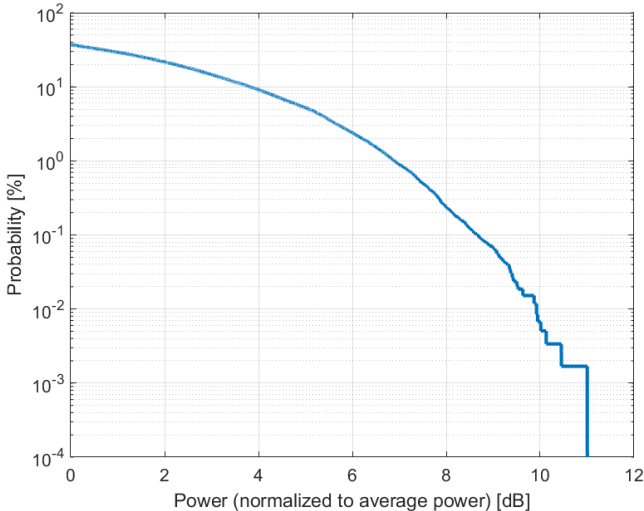
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

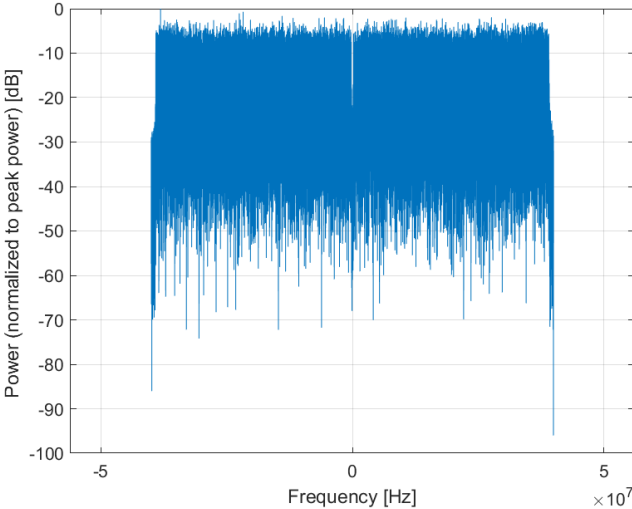
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

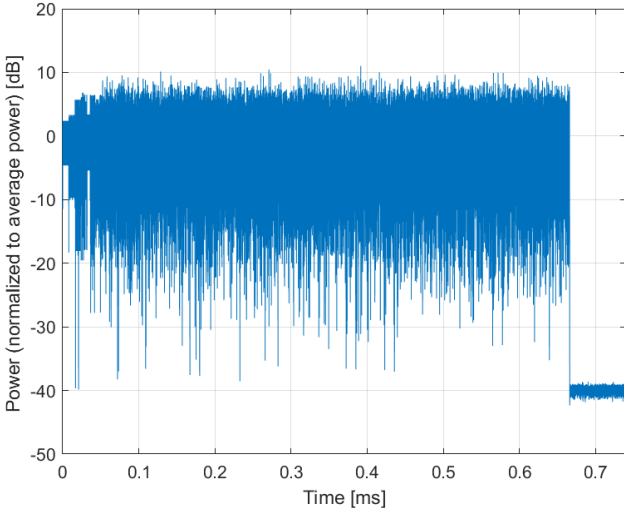
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10728-AAC

PAR: ¹ **8.65 dB**
MIF: ² **-7.19 dB**

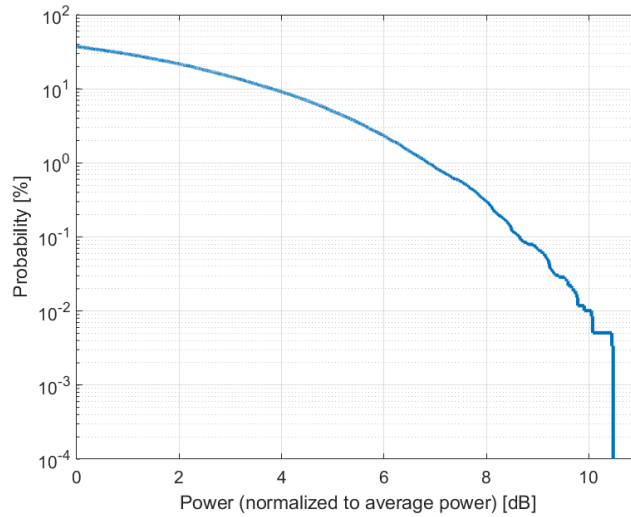
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

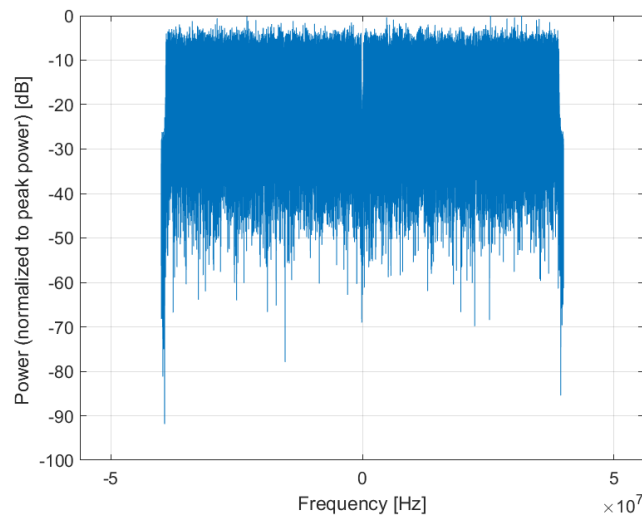
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

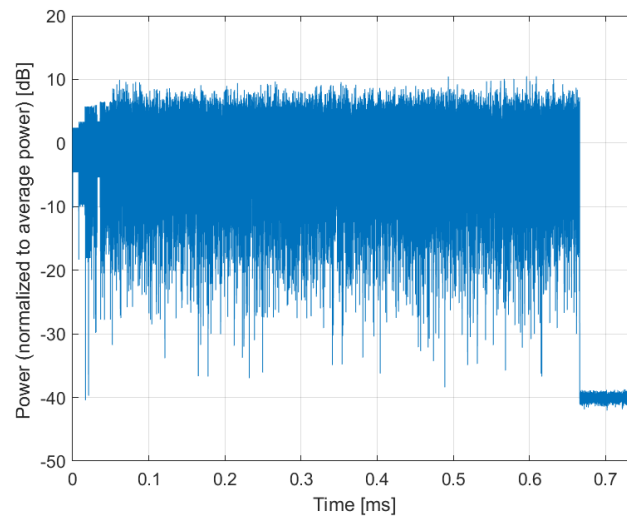
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)**

Group: WLAN
UID: 10729-AAC

PAR: ¹ **8.64 dB**
MIF: ² **-7.17 dB**

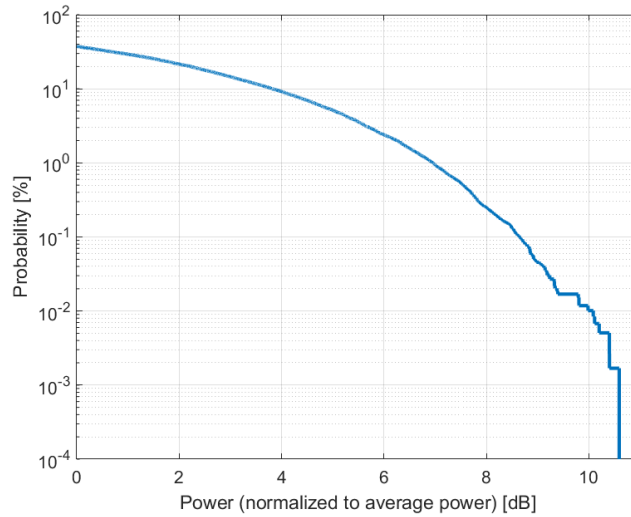
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

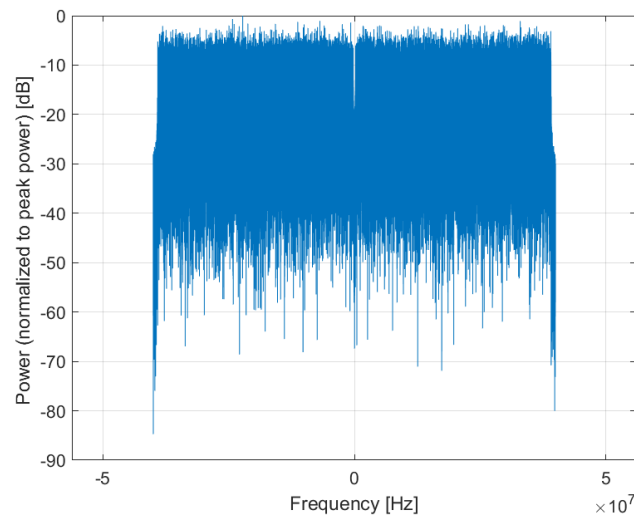
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

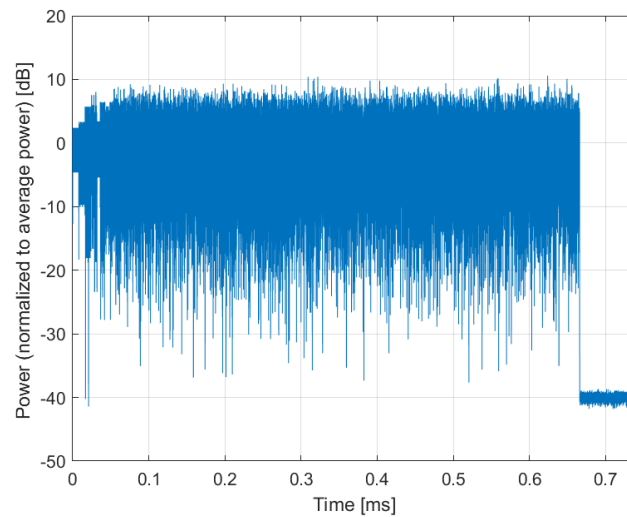
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)**

Group: WLAN
UID: 10730-AAC

PAR: ¹ **8.67 dB**
MIF: ² **-7.12 dB**

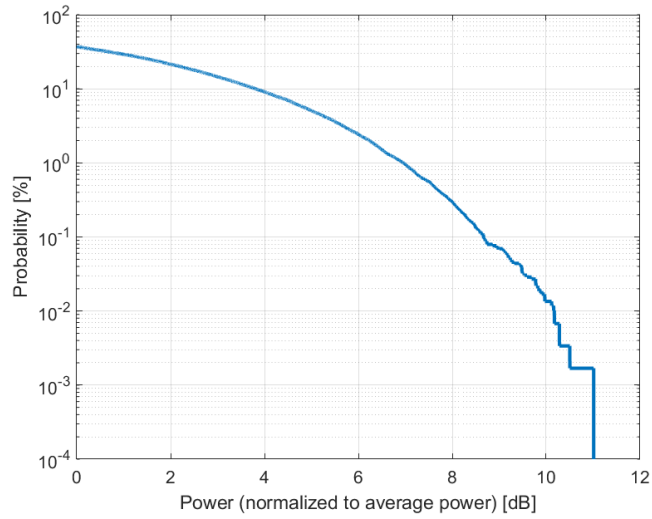
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 90%
Number of spatial stream: 1

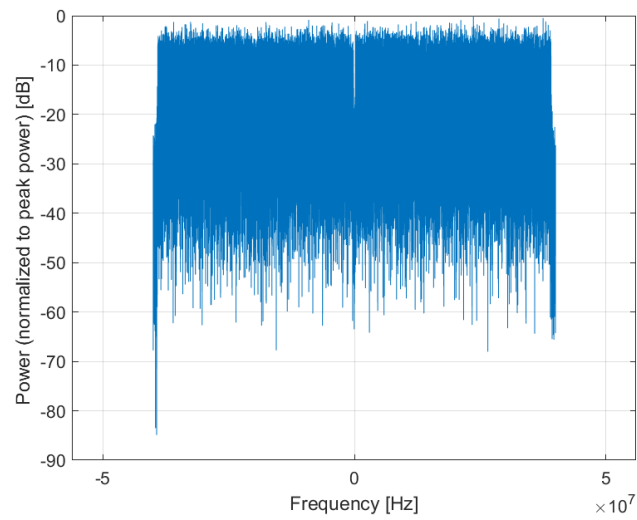
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

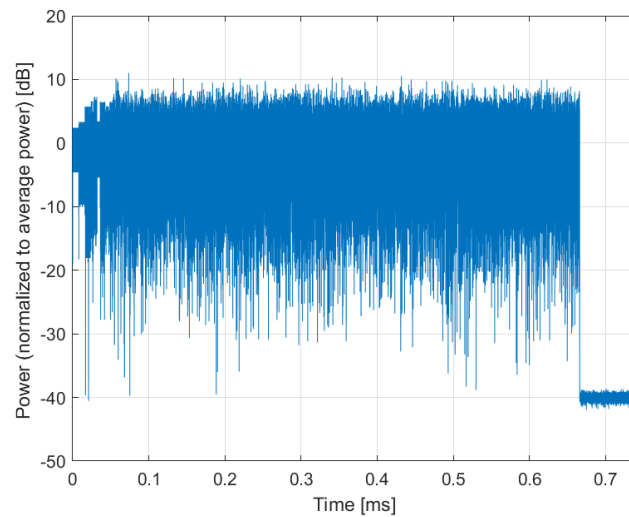
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10731-AAC

PAR: ¹ **8.42 dB**
MIF: ² **-23.60 dB**

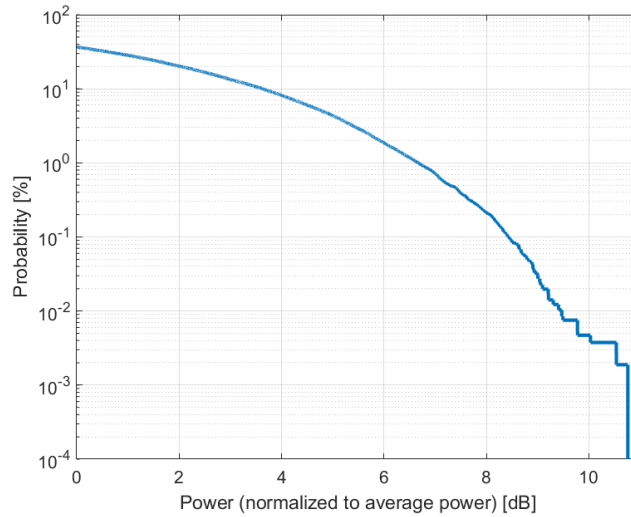
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

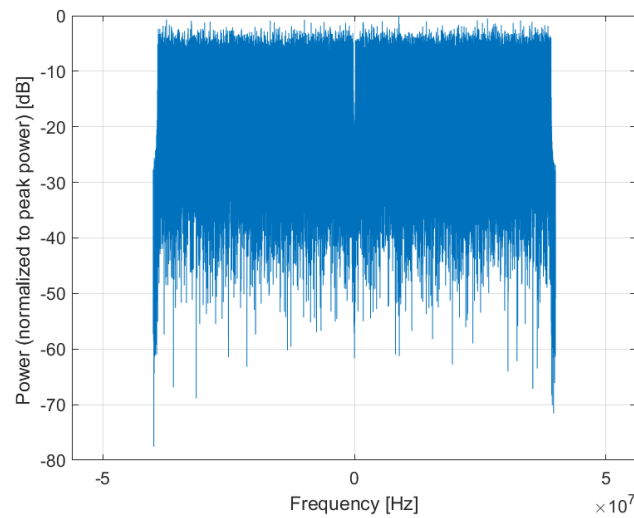
Bandwidth: 80.0 MHz
Integration Time: 1.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

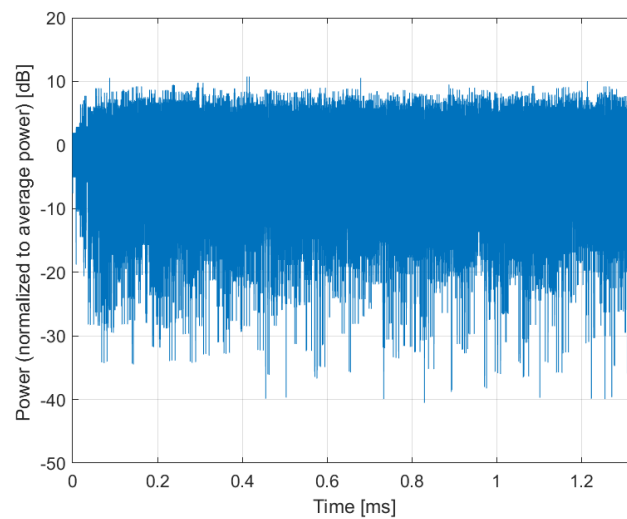
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10732-AAC

PAR: ¹ **8.46 dB**
MIF: ² **-23.45 dB**

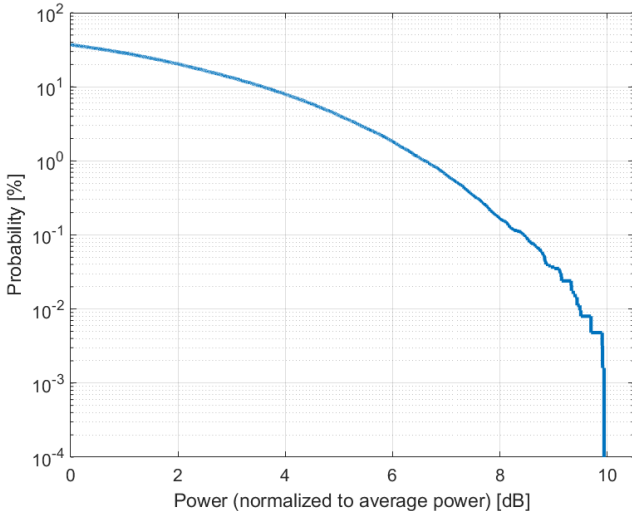
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

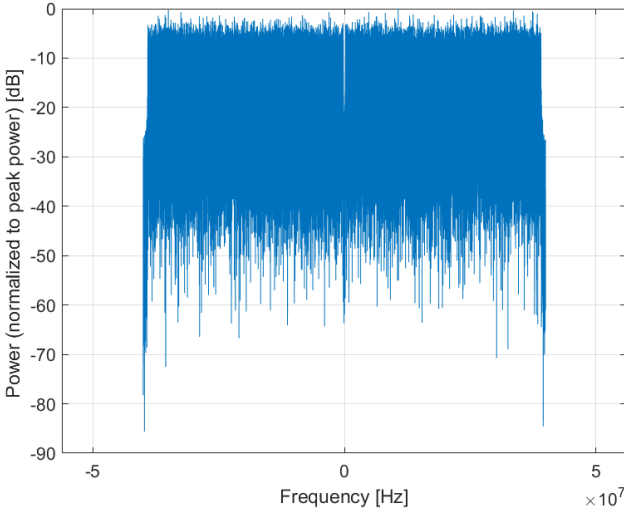
Bandwidth: 80.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

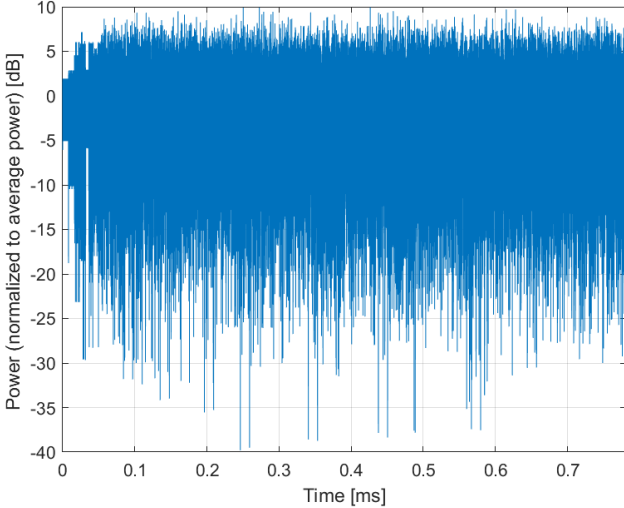
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10733-AAC

PAR: ¹ **8.40 dB**
MIF: ² **-25.61 dB**

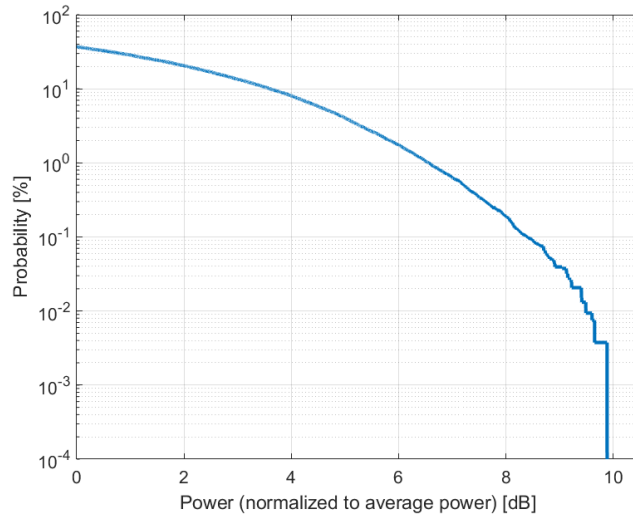
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

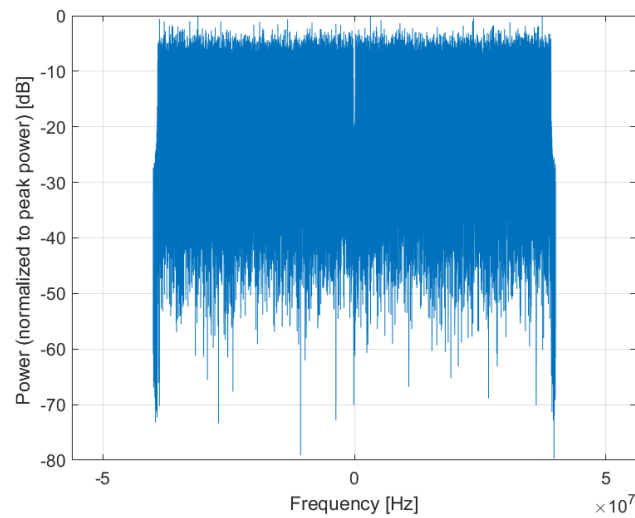
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

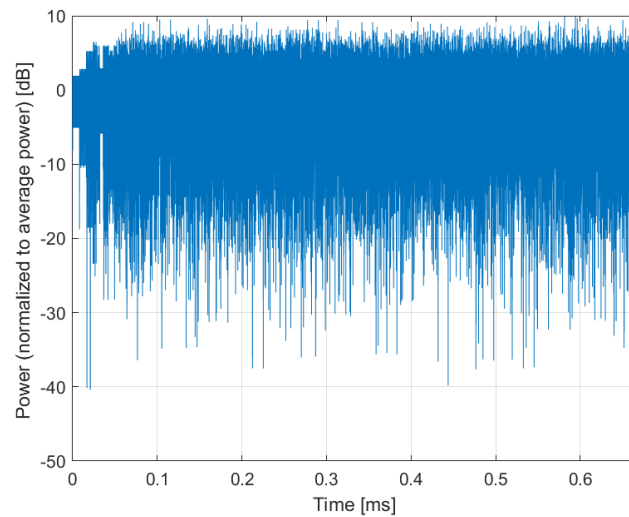
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10734-AAC

PAR: ¹ **8.25 dB**
MIF: ² **-26.92 dB**

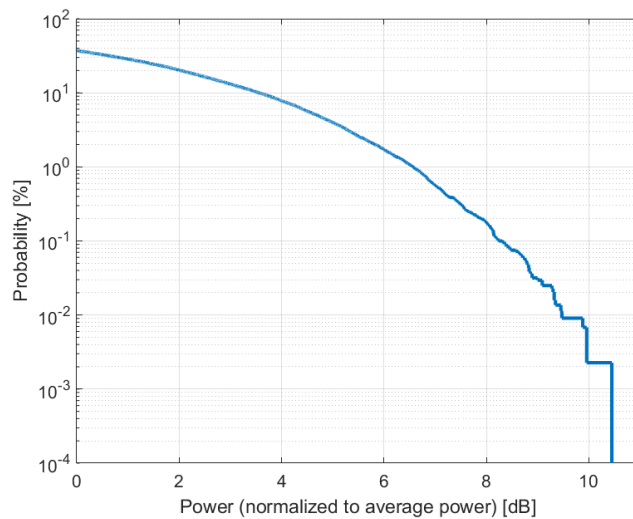
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

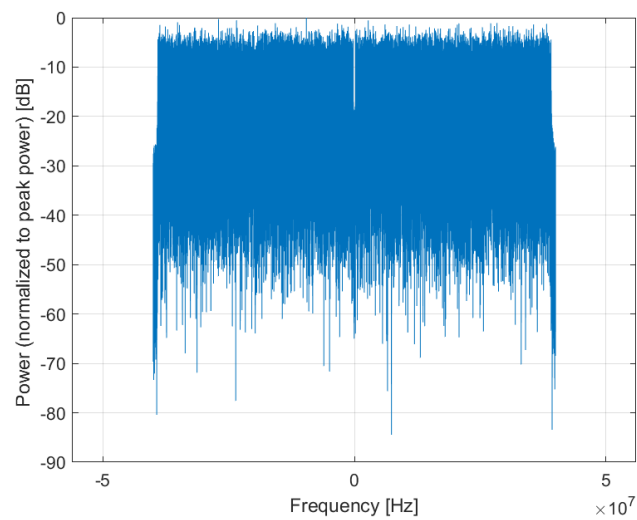
Bandwidth: 80.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

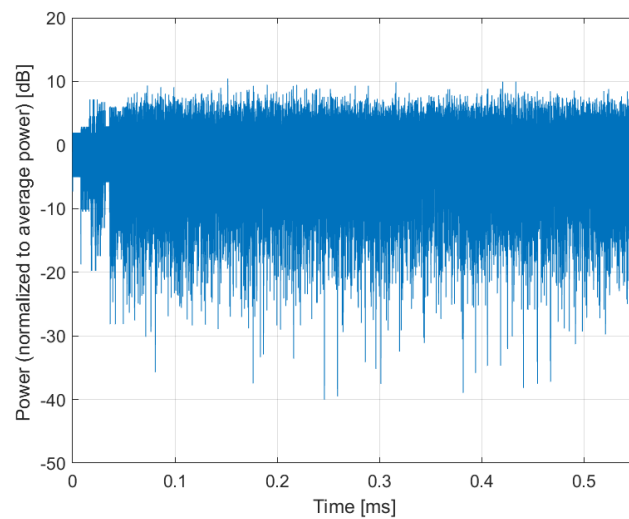
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10735-AAC

PAR: ¹ **8.33 dB**
MIF: ² **-24.09 dB**

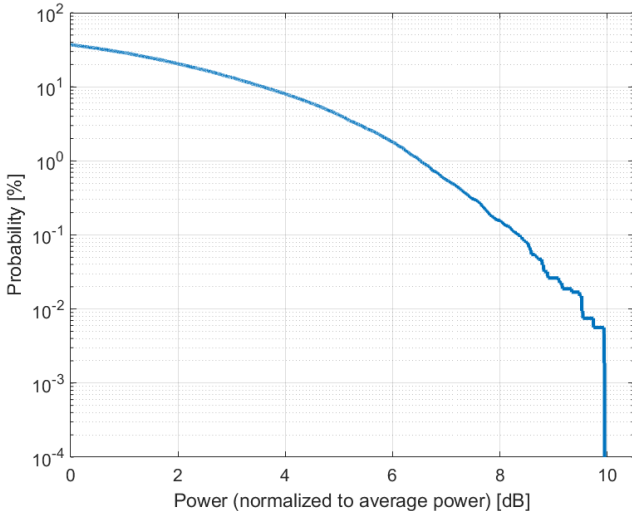
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

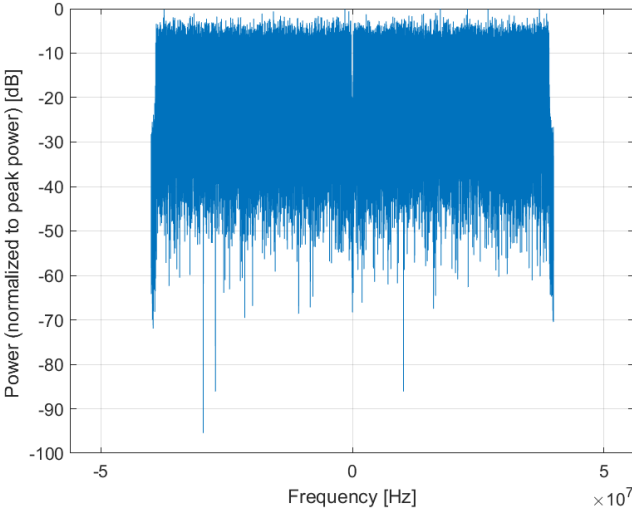
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

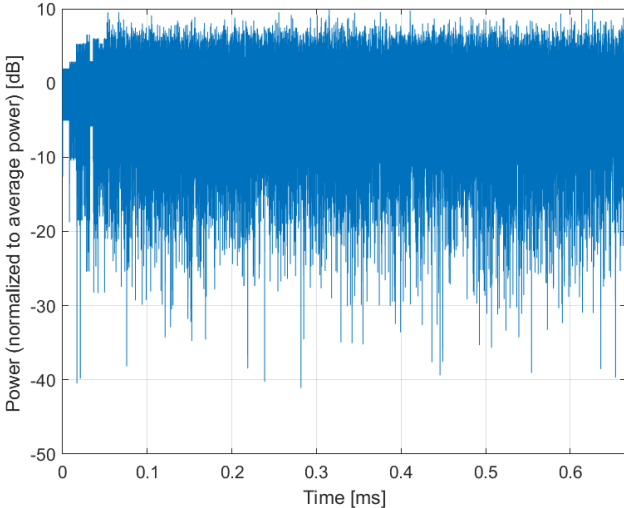
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)**

Group: WLAN
UID: 10736-AAC

PAR: ¹ **8.27 dB**
MIF: ² **-20.98 dB**

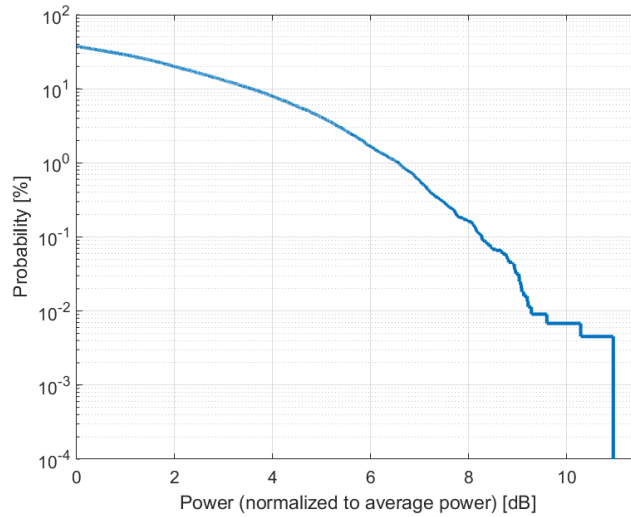
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

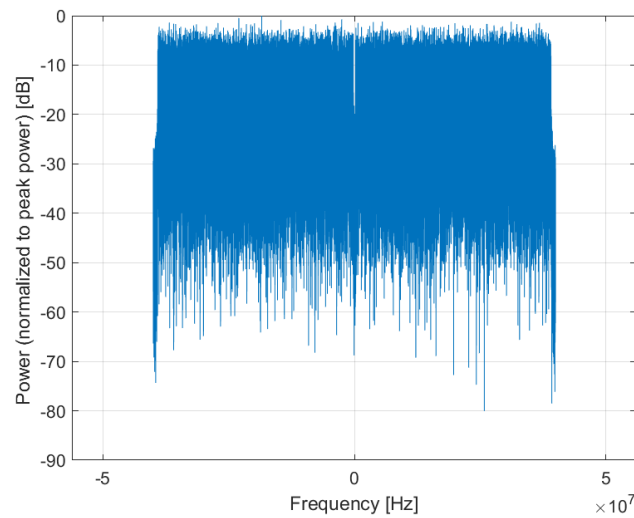
Bandwidth: 80.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

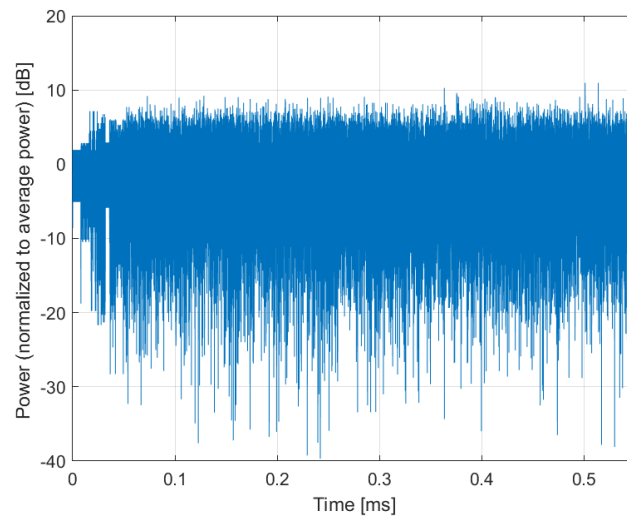
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10737-AAC

PAR: ¹ **8.36 dB**
MIF: ² **-24.90 dB**

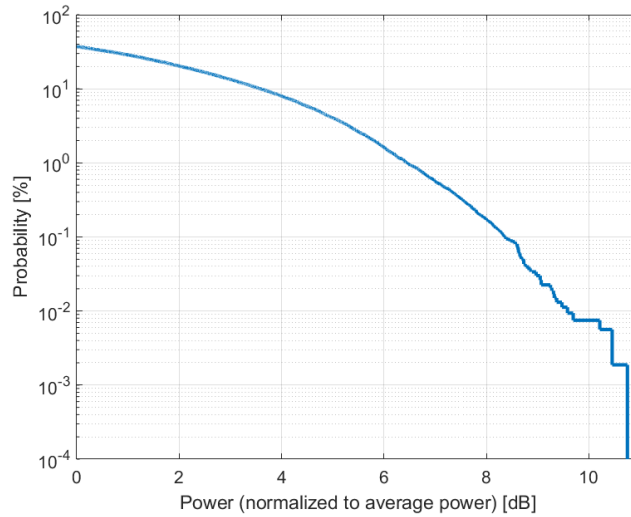
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

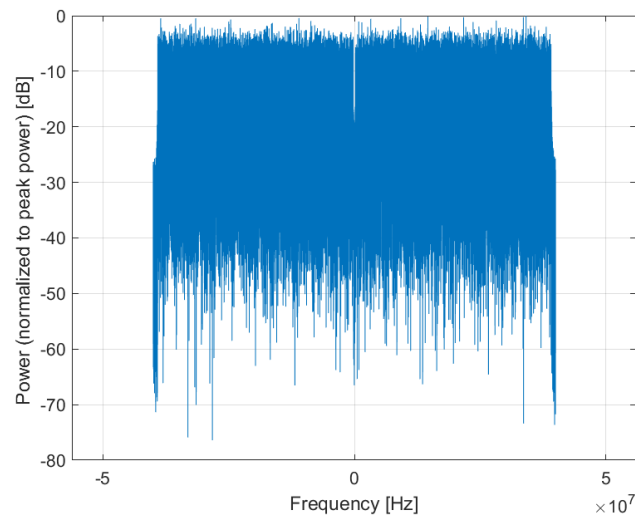
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

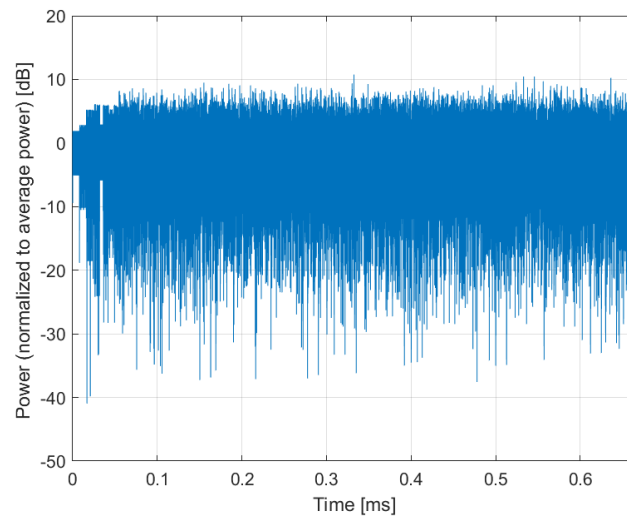
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10738-AAC

PAR: ¹ **8.42 dB**
MIF: ² **-23.02 dB**

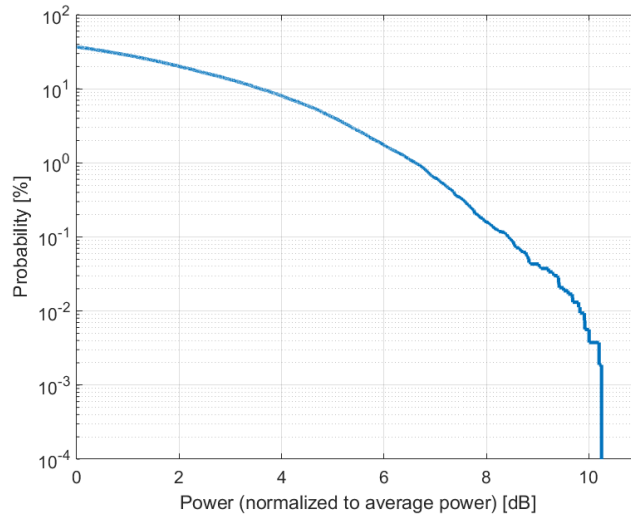
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

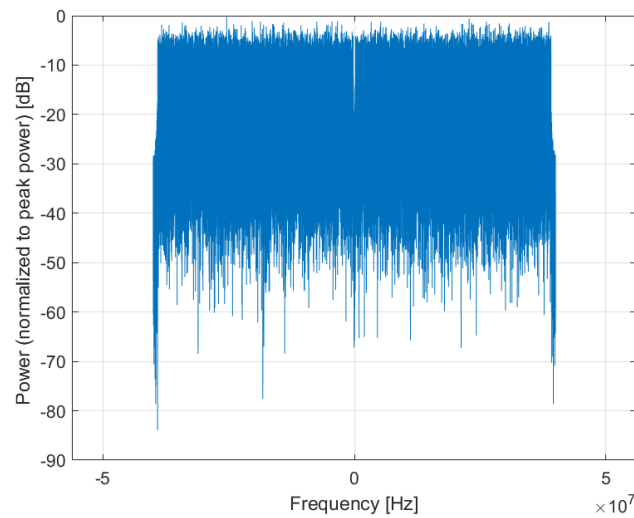
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

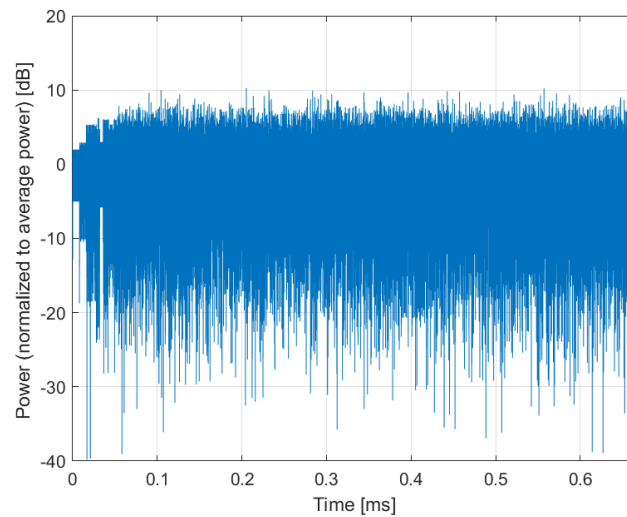
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10739-AAC

PAR: ¹ **8.29 dB**
MIF: ² **-23.68 dB**

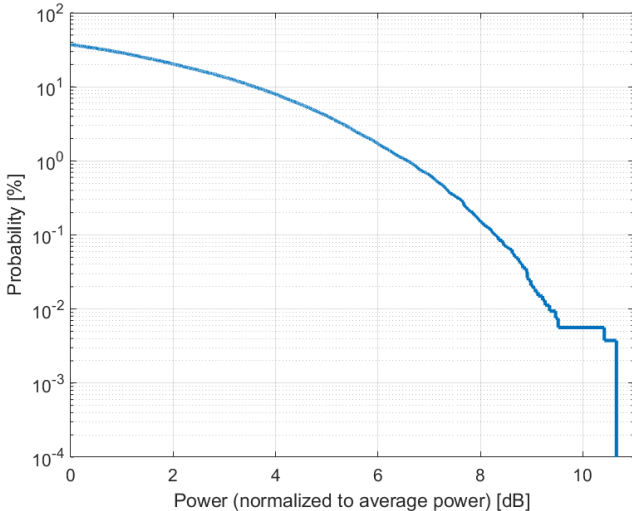
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

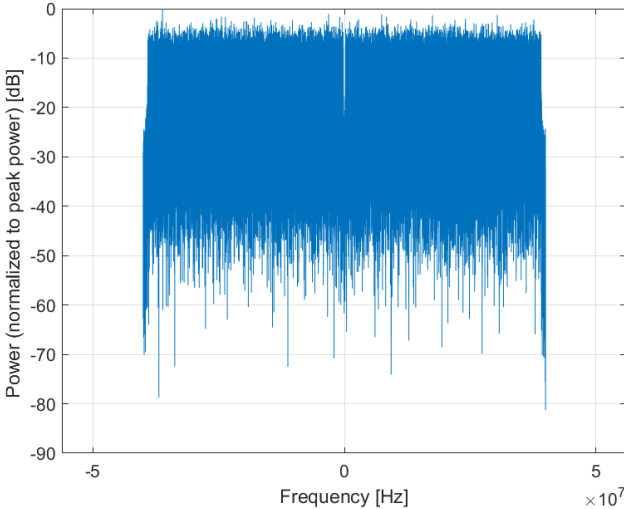
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

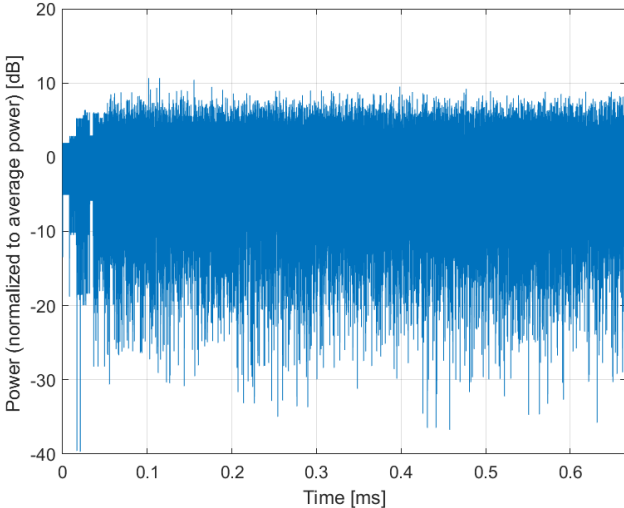
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



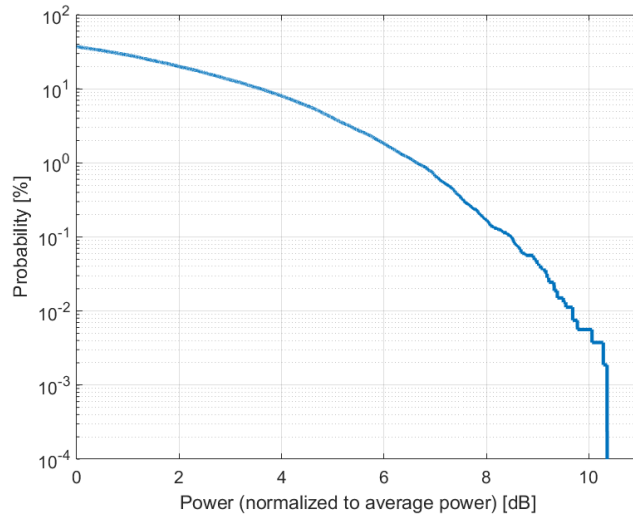
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

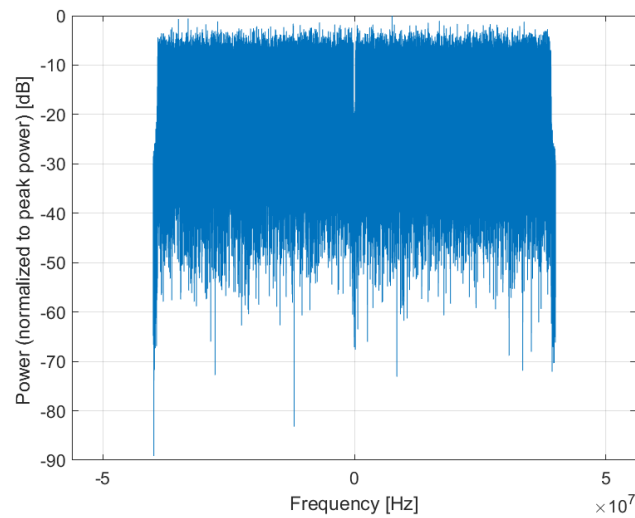
| | |
|-------------------------|--|
| Name: | IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle) |
| Group: | WLAN |
| UID: | 10740-AAC |
| PAR: ¹ | 8.48 dB |
| MIF: ² | -22.10 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | 256-QAM |
| Frequency Band: | WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5.825 - 5.925 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Bandwidth: 80MHz Duty Cycle: 99% Number of spatial stream: 1 |
| Bandwidth: | 80.0 MHz |
| Integration Time: | 0.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

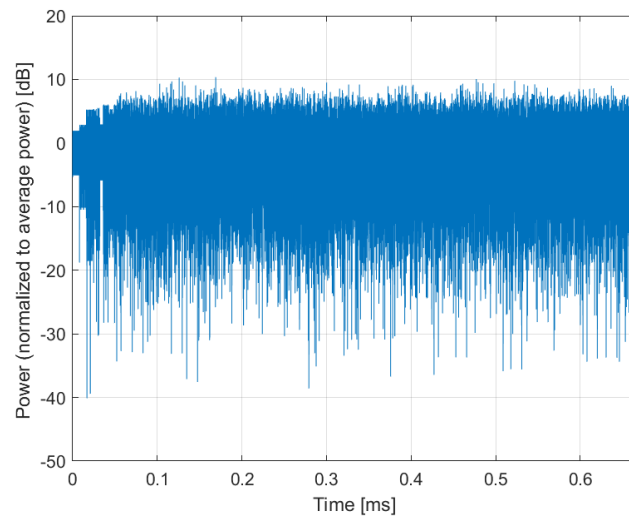
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)**

Group: WLAN
UID: 10741-AAC

PAR: ¹ **8.40 dB**
MIF: ² **-22.36 dB**

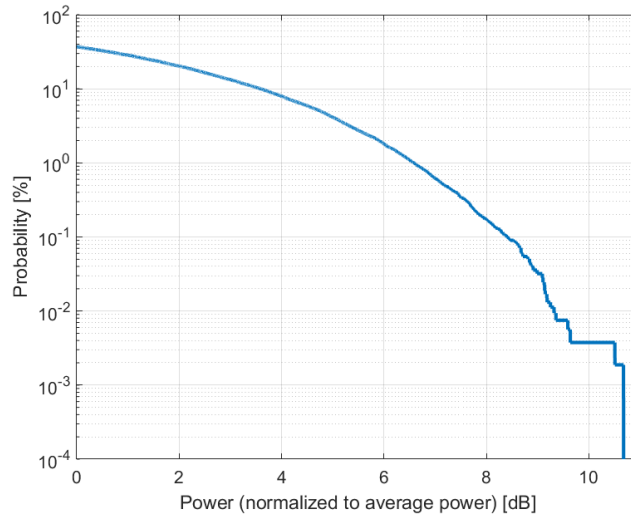
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

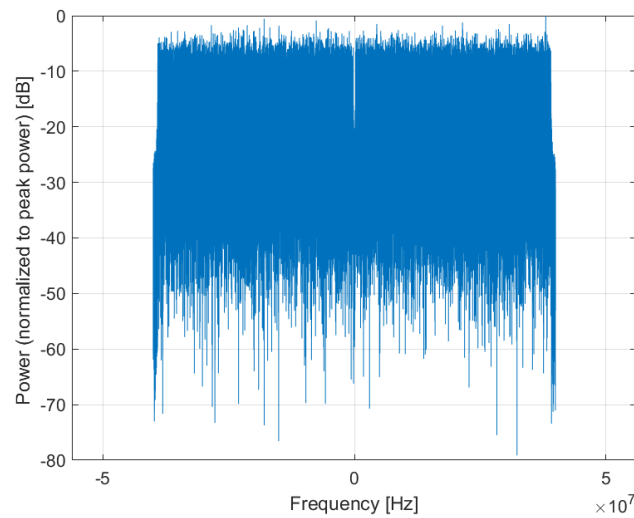
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

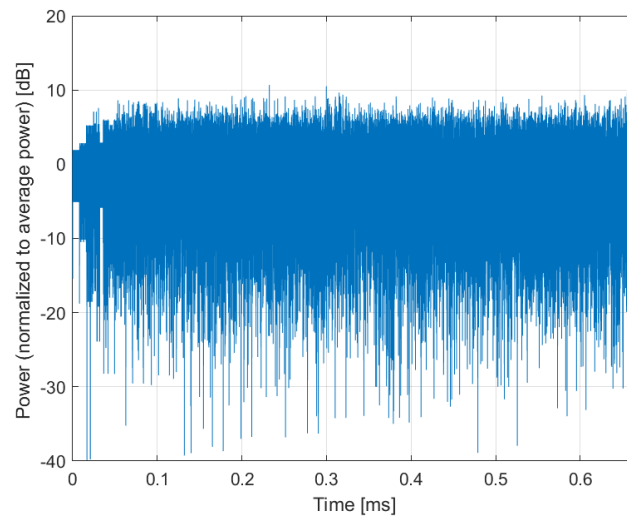
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)**

Group: WLAN
UID: 10742-AAC

PAR: ¹ **8.43 dB**
MIF: ² **-25.24 dB**

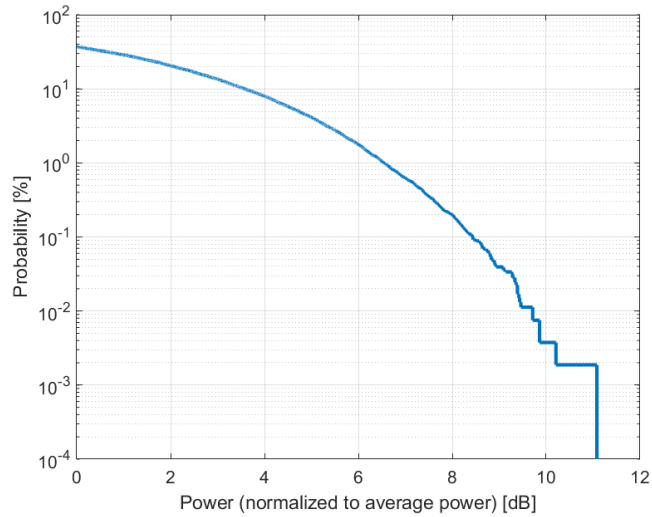
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 80MHz
Duty Cycle: 99%
Number of spatial stream: 1

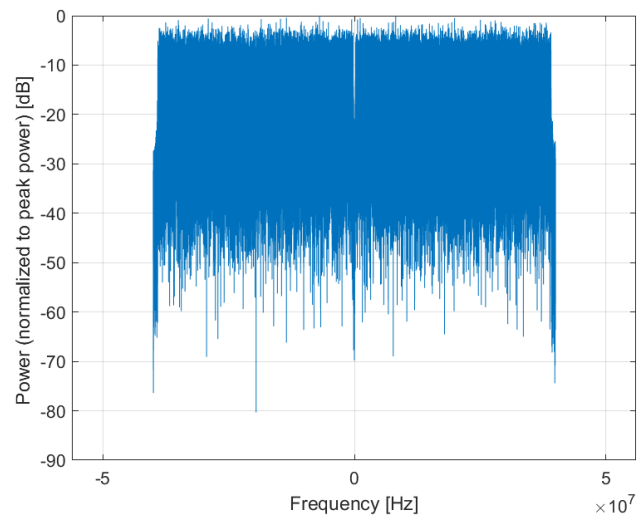
Bandwidth: 80.0 MHz
Integration Time: 0.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

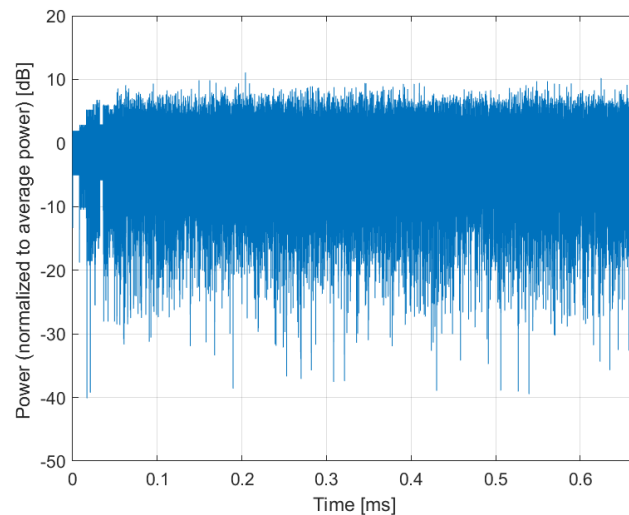
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)**

Group: WLAN
UID: 10743-AAC

PAR: ¹ **8.94 dB**
MIF: ² **-6.60 dB**

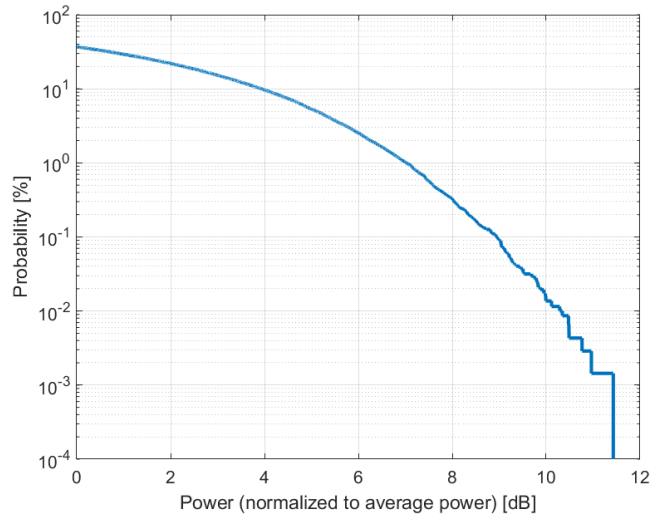
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

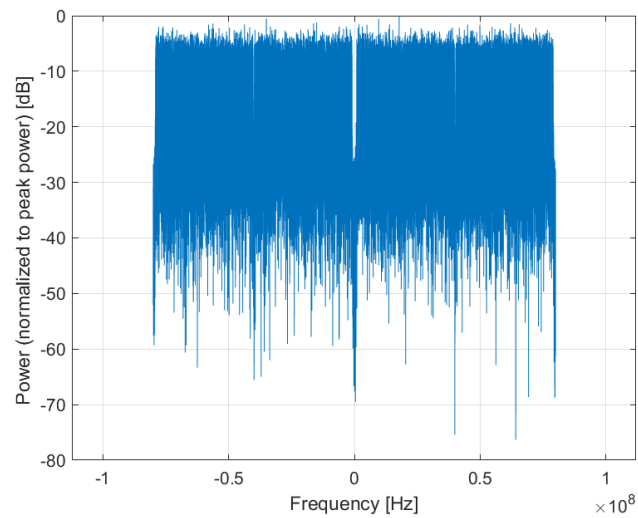
Bandwidth: 160.0 MHz
Integration Time: 0.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

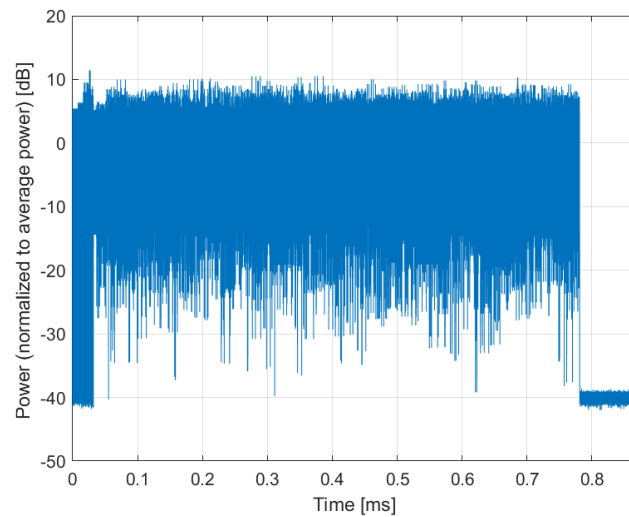
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)**

Group: WLAN
UID: 10744-AAC

PAR: ¹ **9.16 dB**
MIF: ² **-7.44 dB**

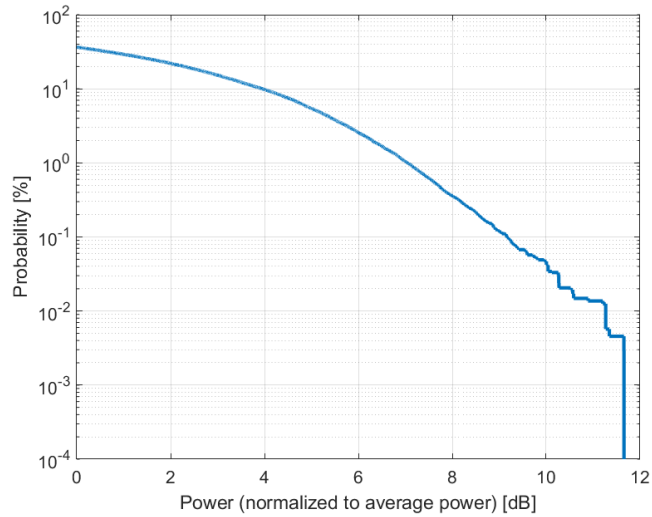
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

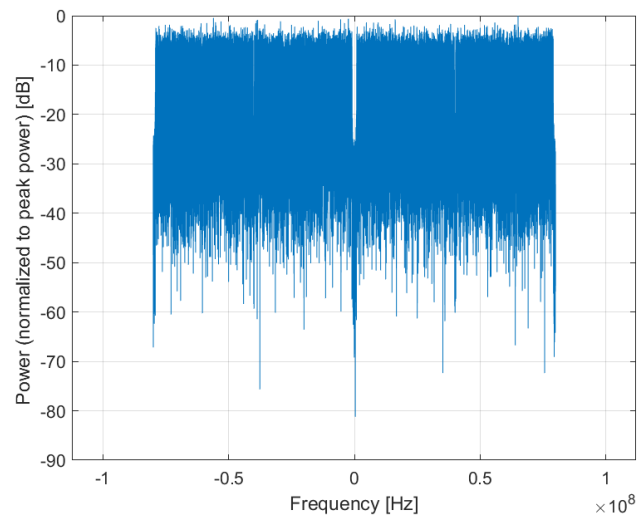
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

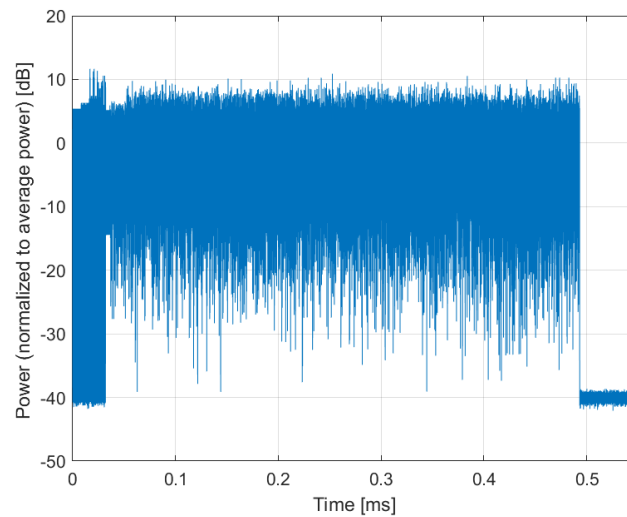
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)**

Group: WLAN
UID: 10745-AAC

PAR: ¹ **8.93 dB**
MIF: ² **-7.22 dB**

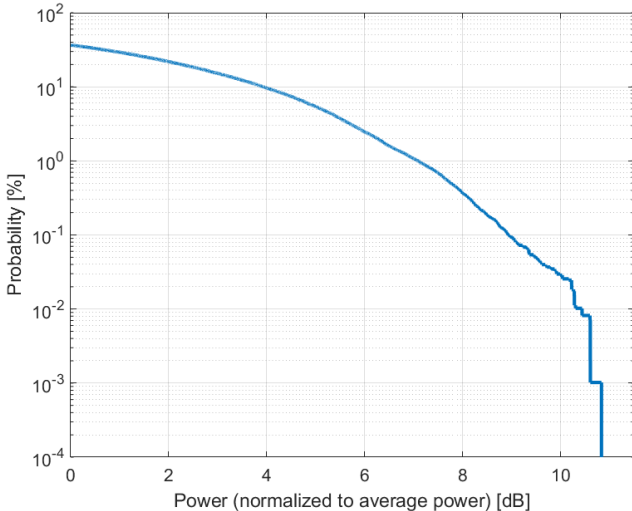
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

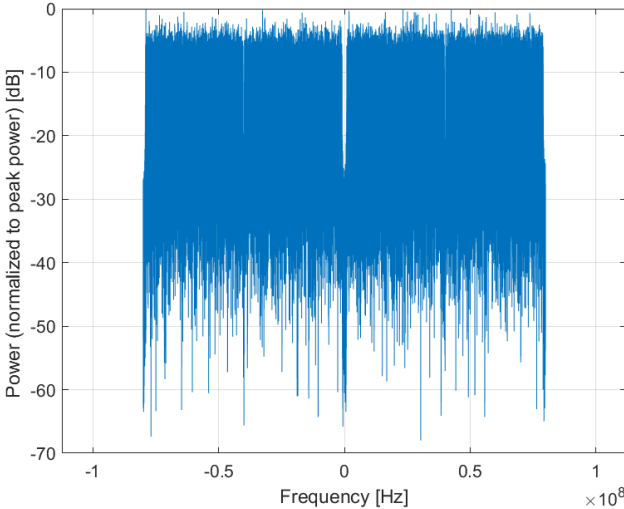
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

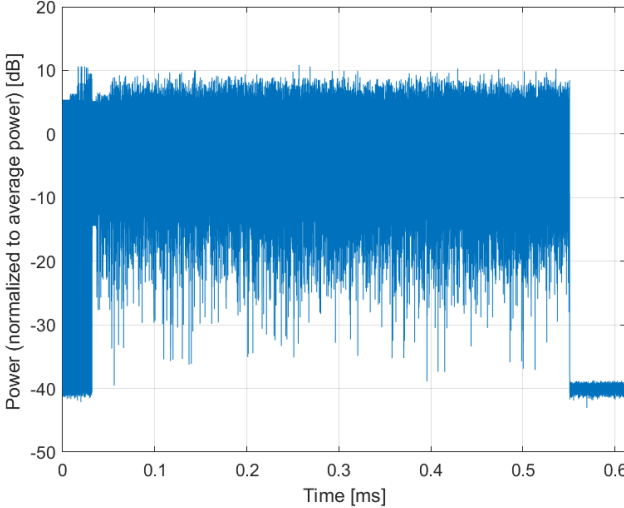
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)**

Group: WLAN
UID: 10746-AAC

PAR: ¹ **9.11 dB**
MIF: ² **-7.46 dB**

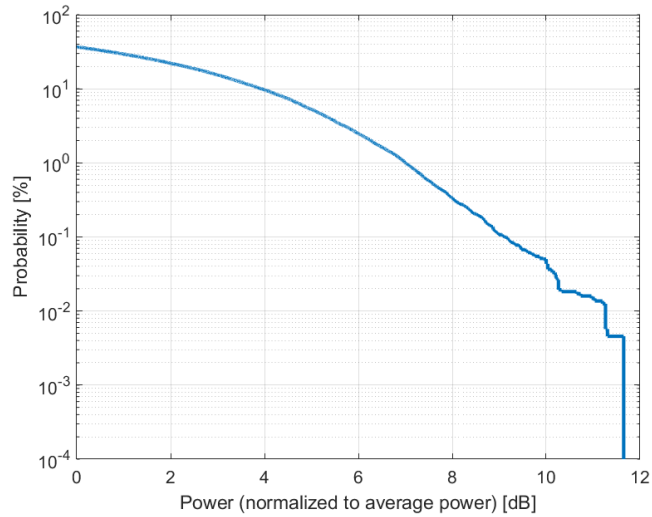
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

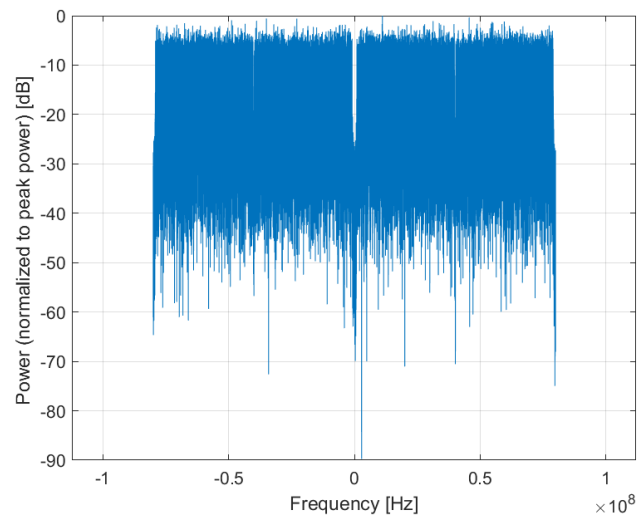
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

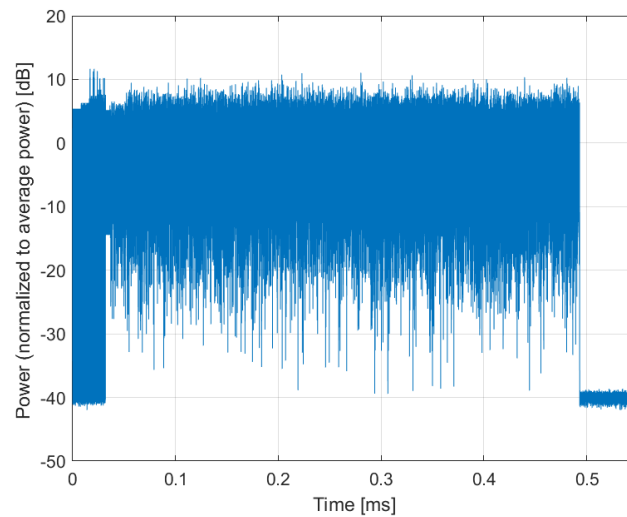
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)**

Group: WLAN
UID: 10747-AAC

PAR: ¹ **9.04 dB**
MIF: ² **-7.22 dB**

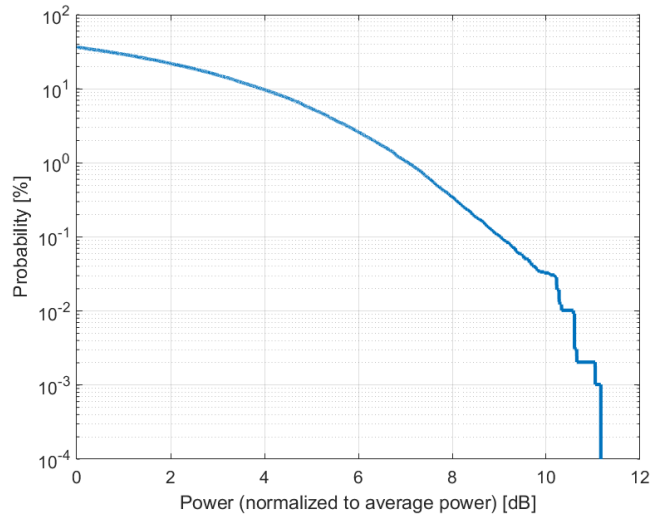
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

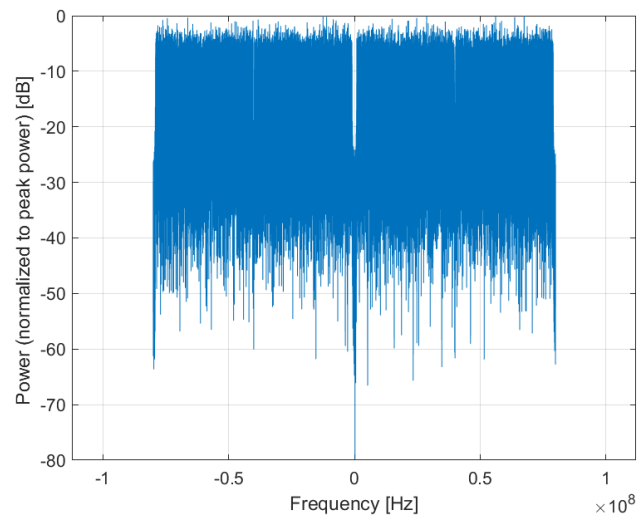
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

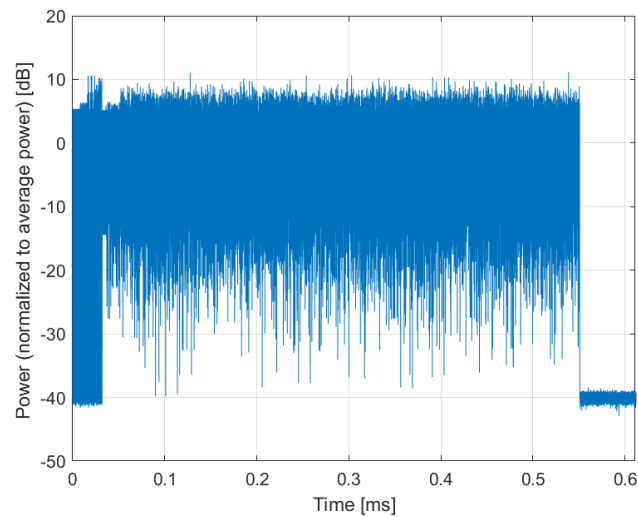
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)**

Group: WLAN
UID: 10748-AAC

PAR: ¹ **8.93 dB**
MIF: ² **-7.60 dB**

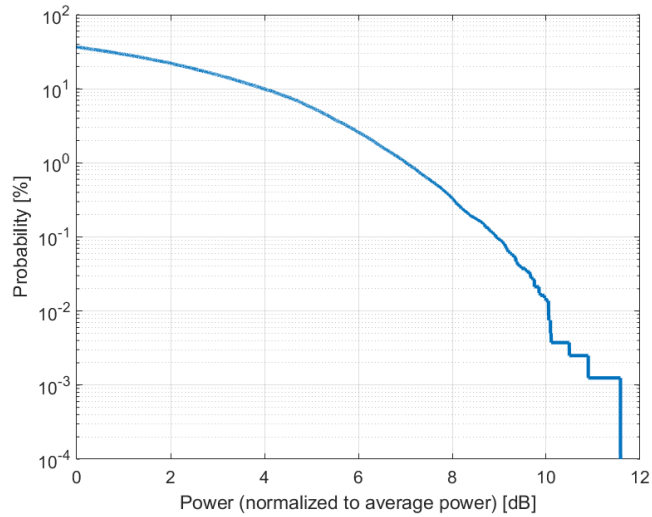
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

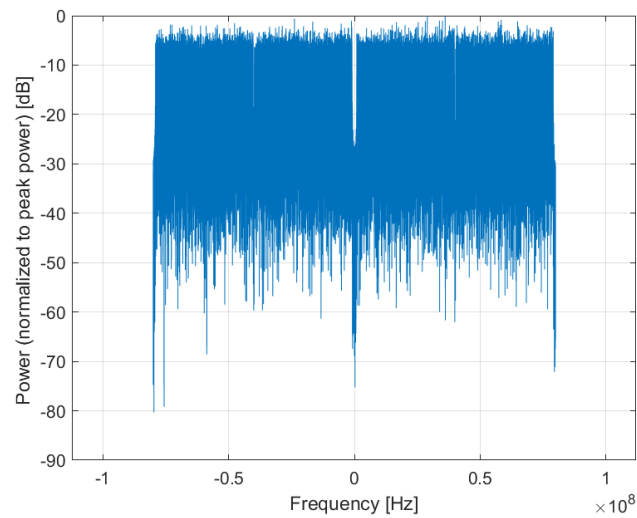
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

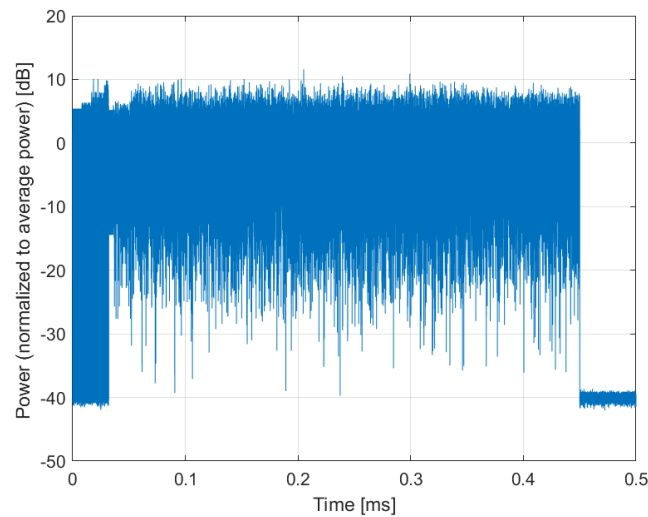
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)**

Group: WLAN
UID: 10749-AAC

PAR:¹ **8.90 dB**
MIF:² **-7.70 dB**

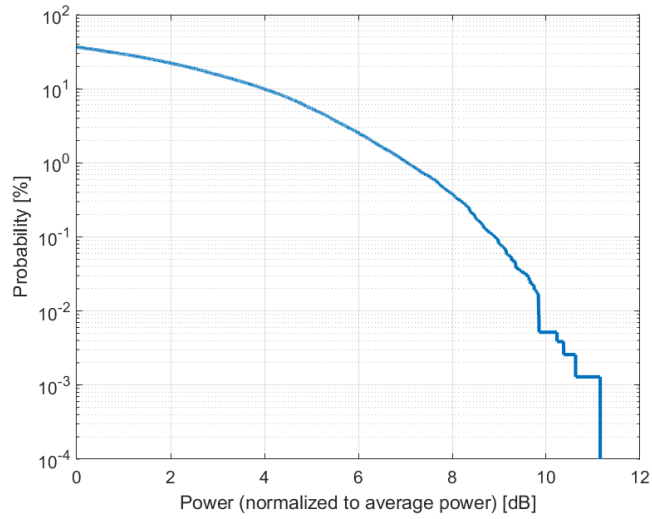
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

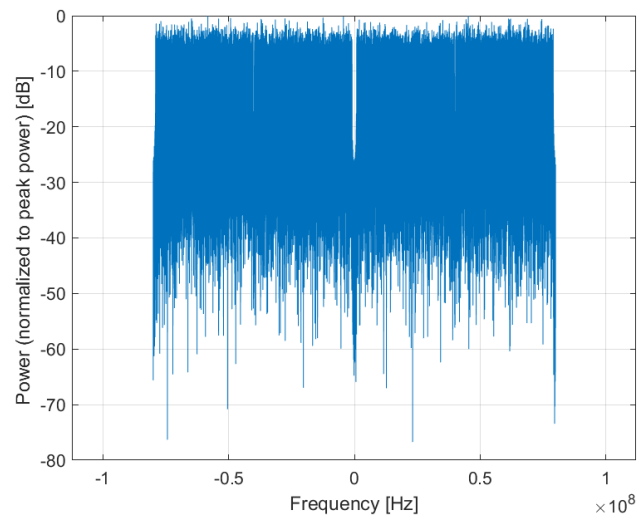
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

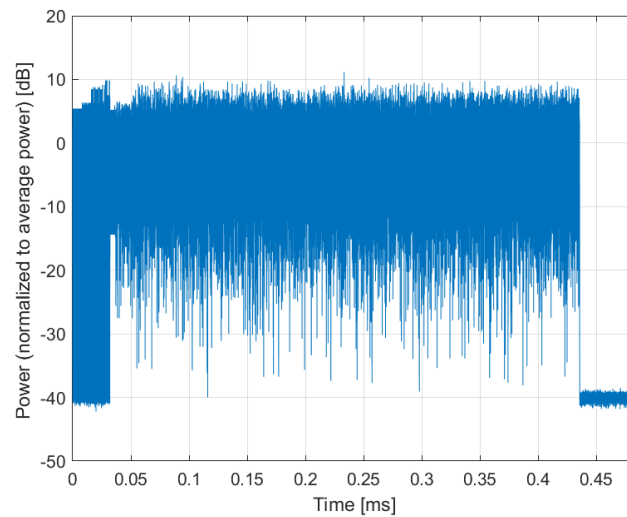
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)**

Group: WLAN
UID: 10750-AAC

PAR: ¹ **8.79 dB**
MIF: ² **-7.75 dB**

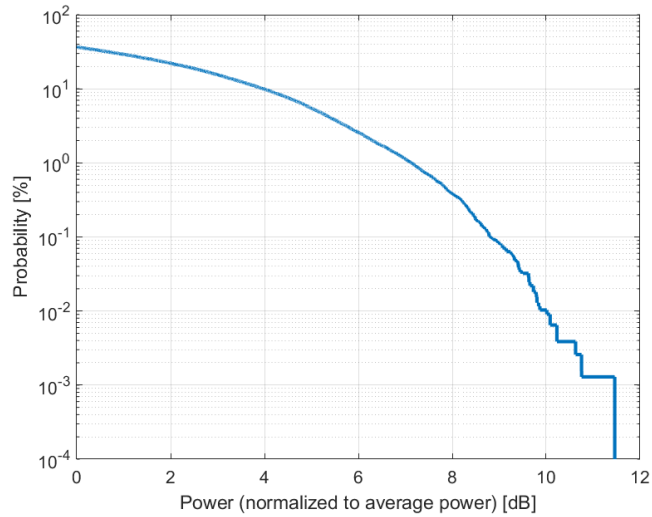
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

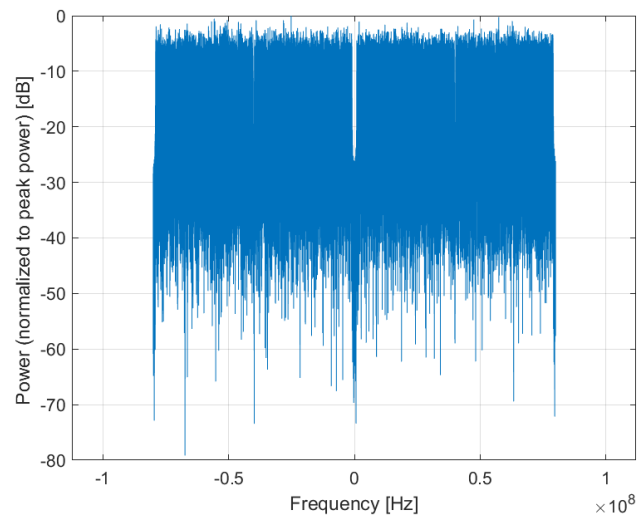
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

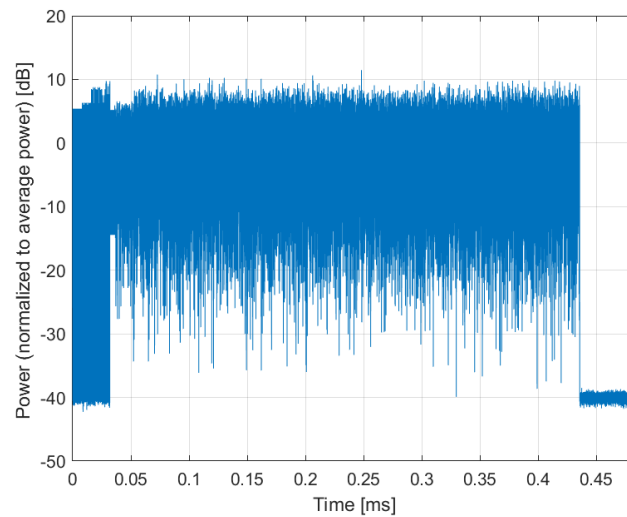
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)**

Group: WLAN
UID: 10751-AAC

PAR: ¹ **8.82 dB**
MIF: ² **-7.93 dB**

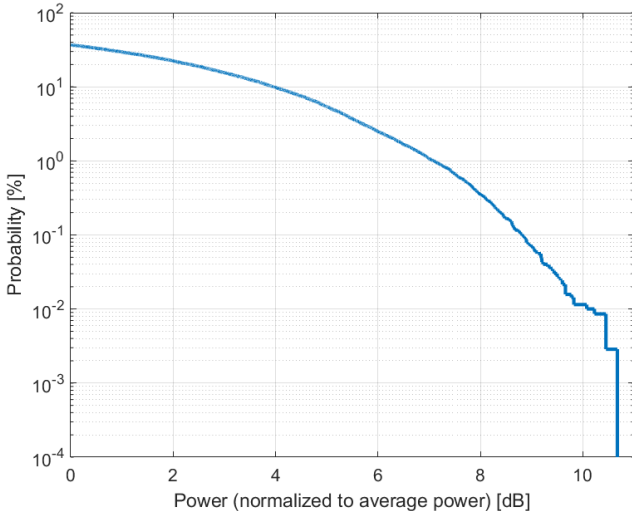
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

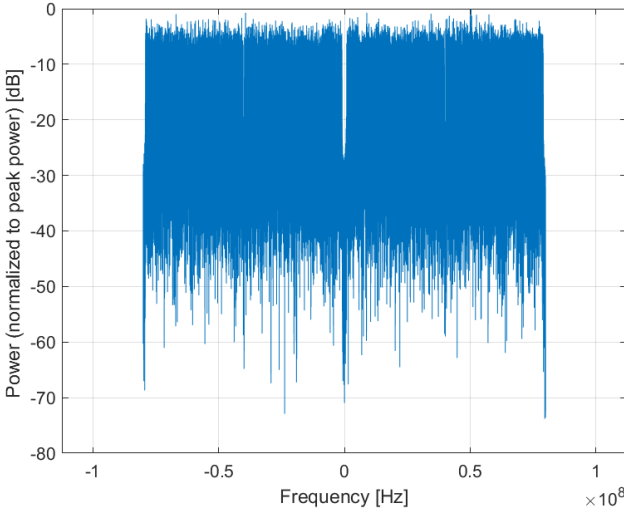
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

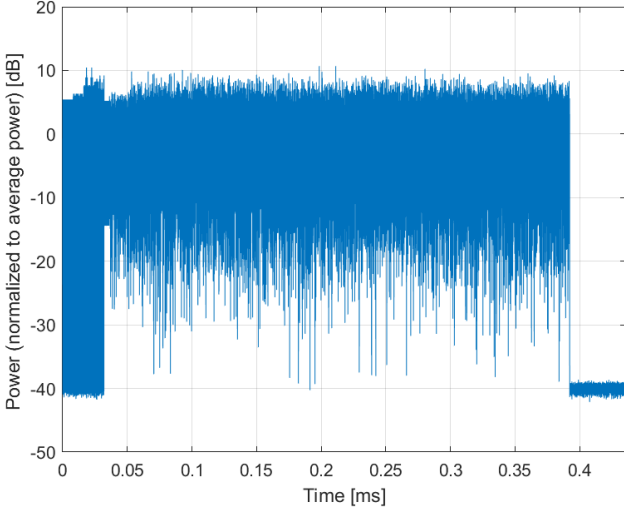
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)**

Group: WLAN
UID: 10752-AAC

PAR: ¹ **8.81 dB**
MIF: ² **-7.94 dB**

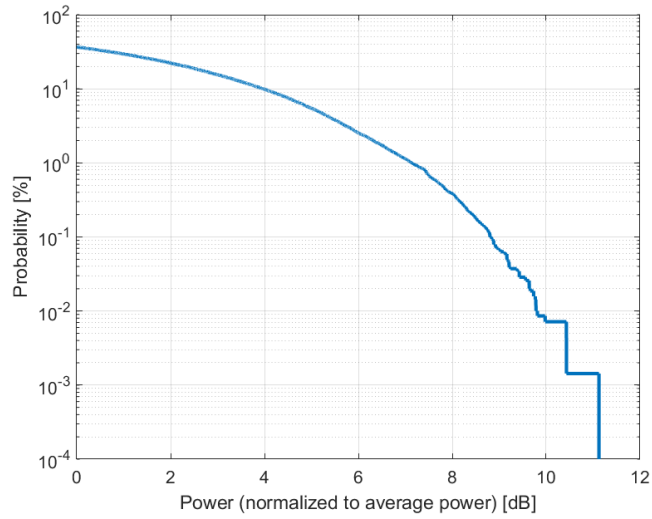
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

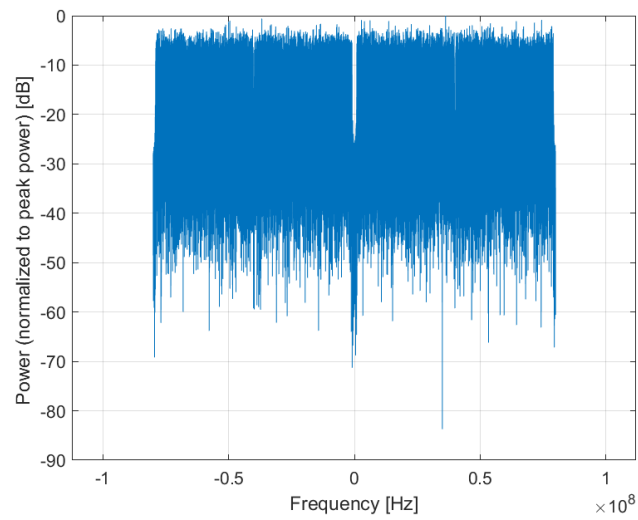
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

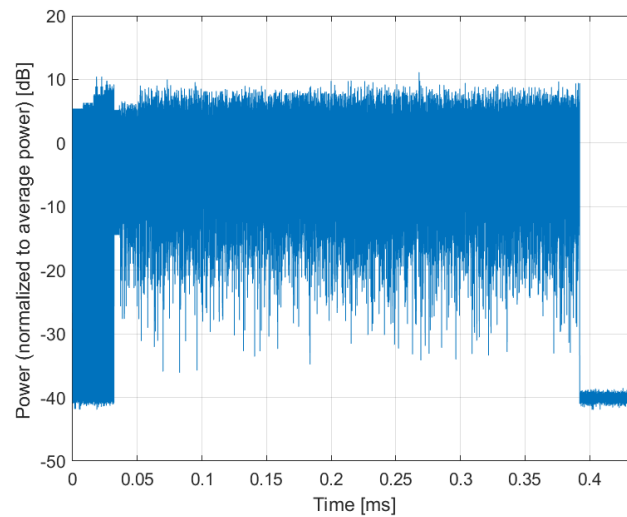
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)**

Group: WLAN
UID: 10753-AAC

PAR:¹ **9.00 dB**
MIF:² **-7.71 dB**

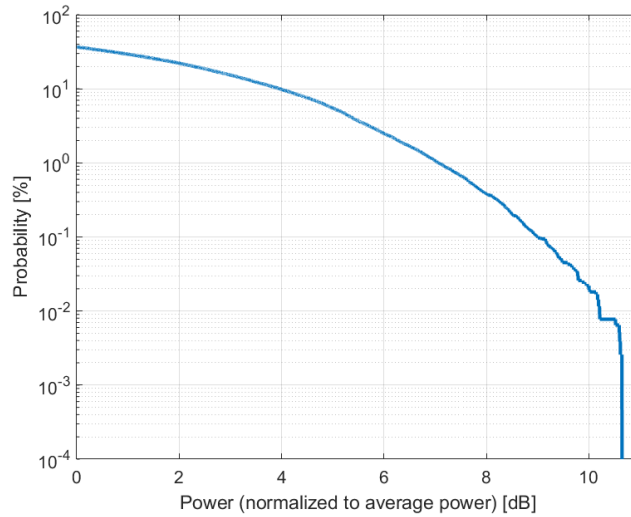
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

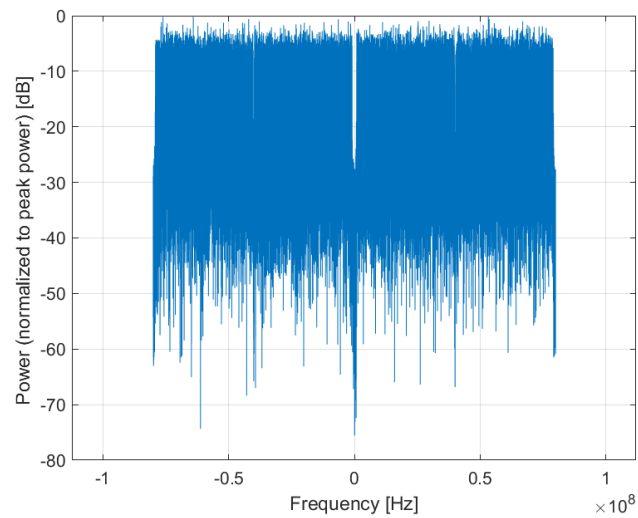
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

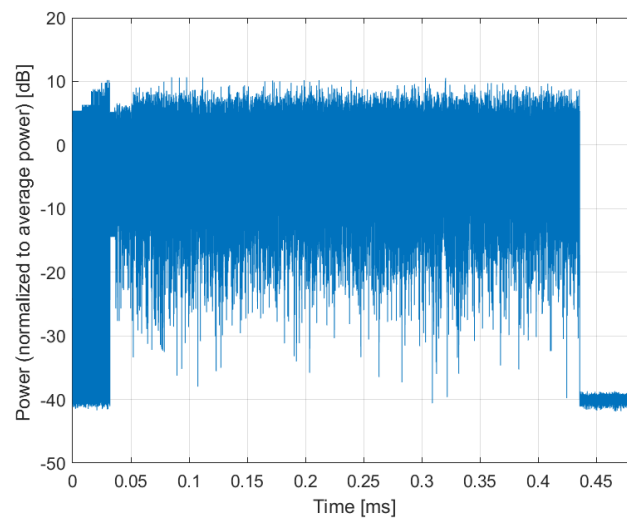
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)**

Group: WLAN
UID: 10754-AAC

PAR: ¹ **8.94 dB**
MIF: ² **-7.80 dB**

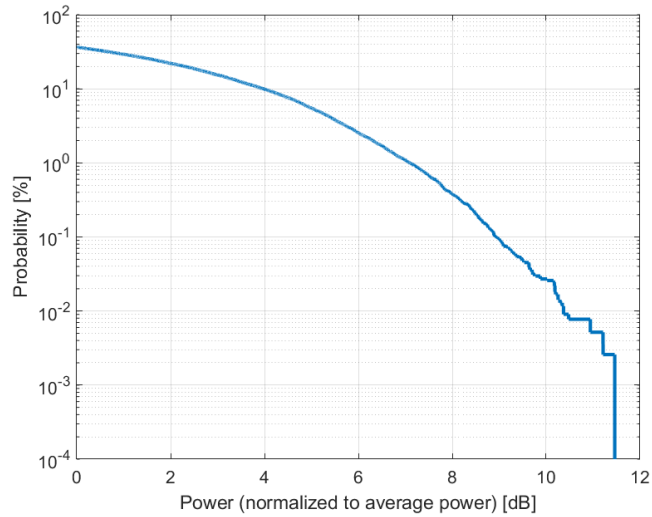
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 90%
Number of spatial stream: 1

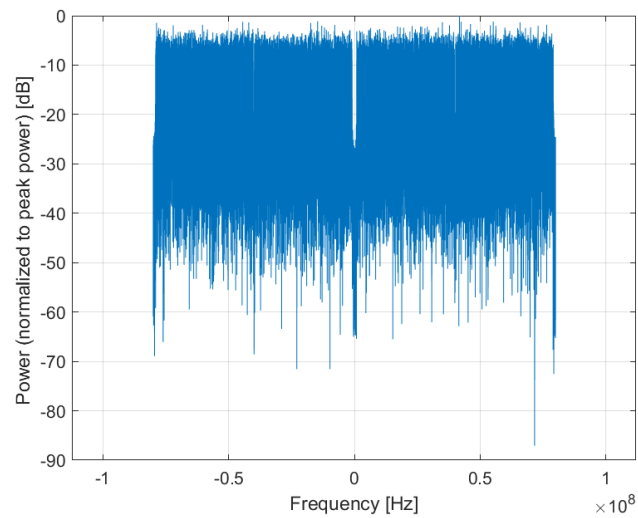
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

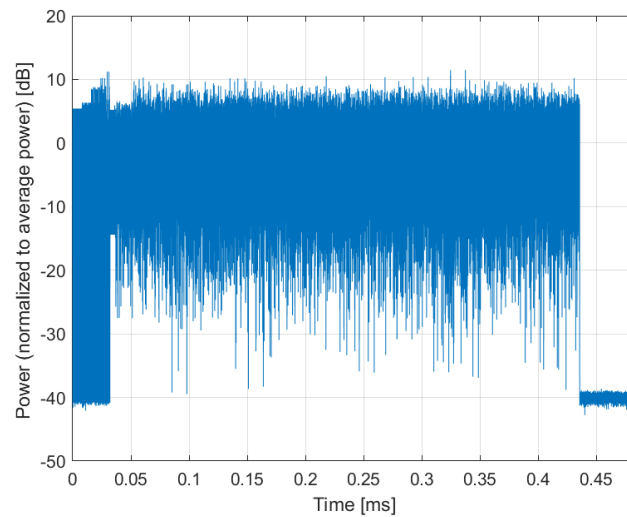
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 10755-AAC

PAR: ¹ **8.64 dB**
MIF: ² **-17.91 dB**

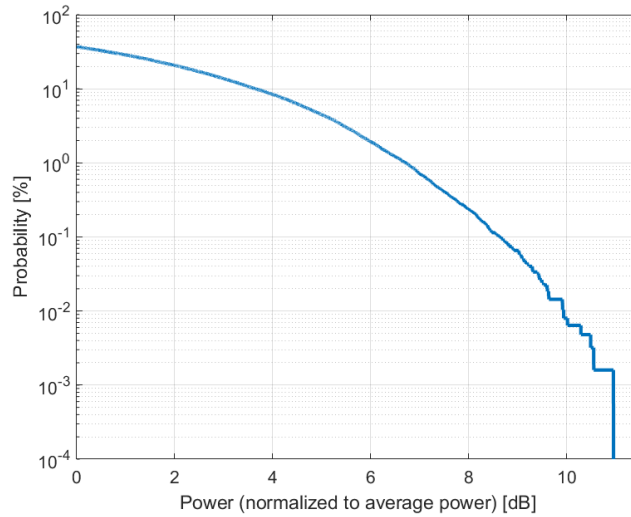
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

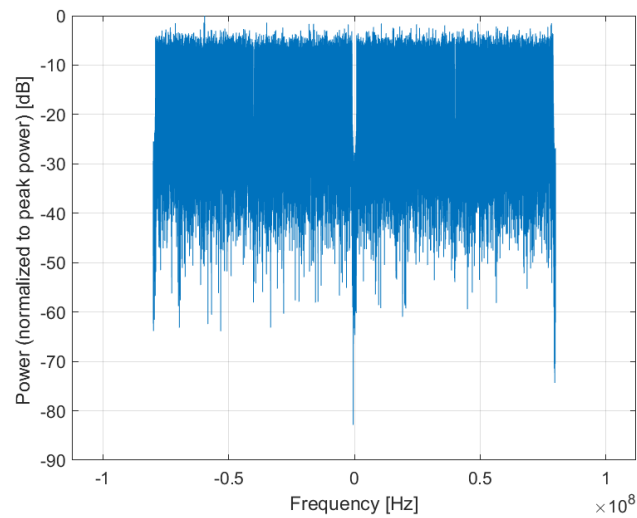
Bandwidth: 160.0 MHz
Integration Time: 0.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

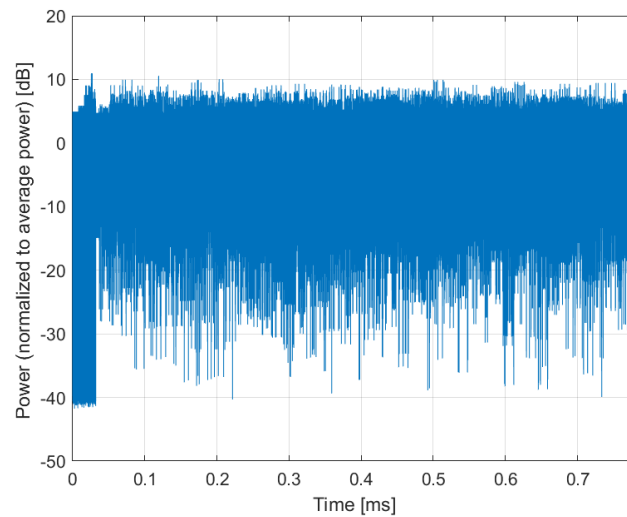
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 10756-AAC

PAR: ¹ **8.77 dB**
MIF: ² **-17.43 dB**

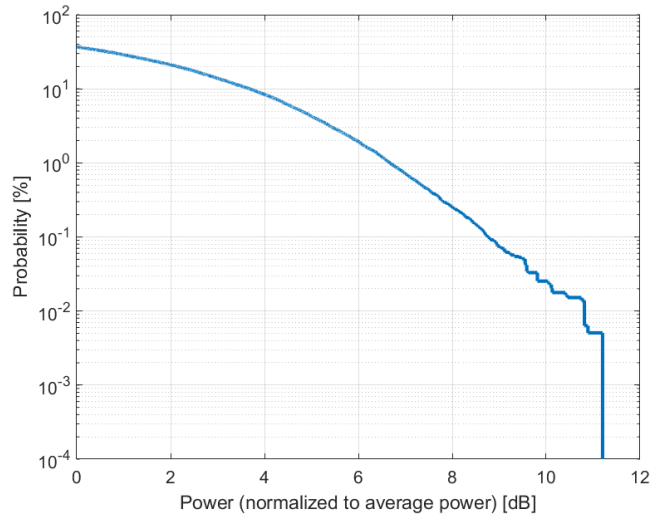
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

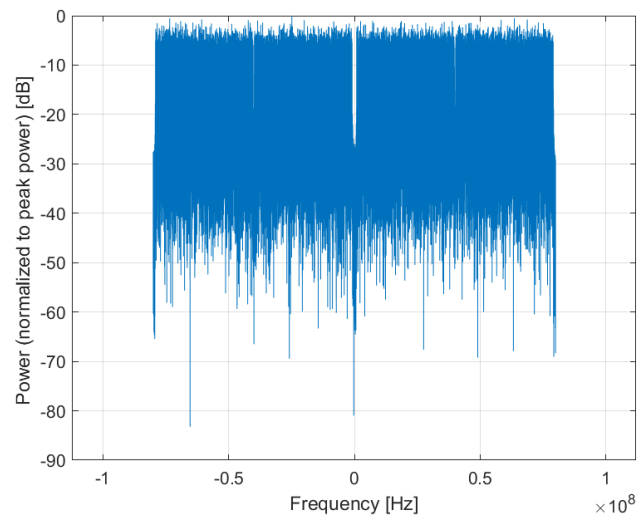
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

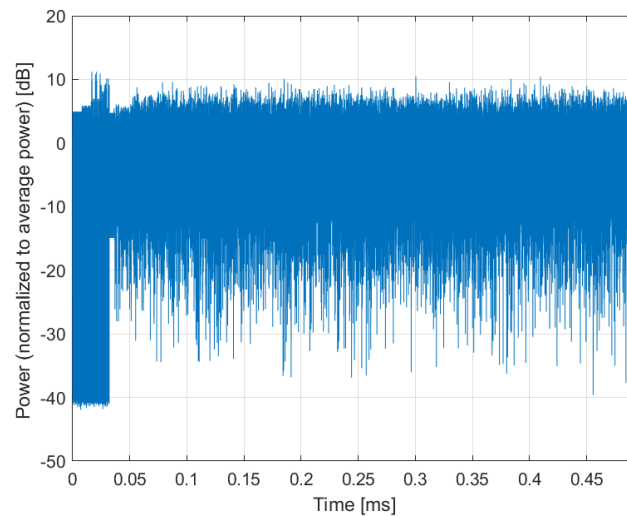
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 10757-AAC

PAR: ¹ **8.77 dB**
MIF: ² **-17.92 dB**

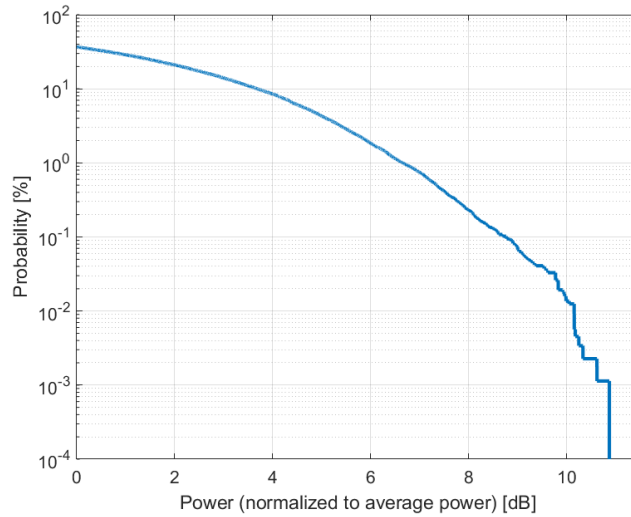
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

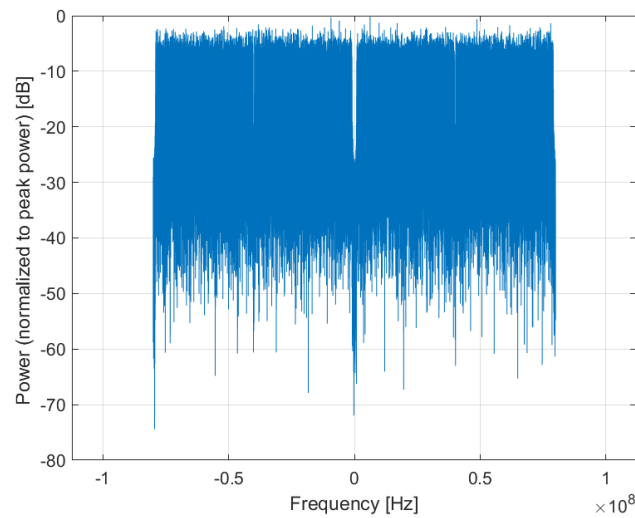
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

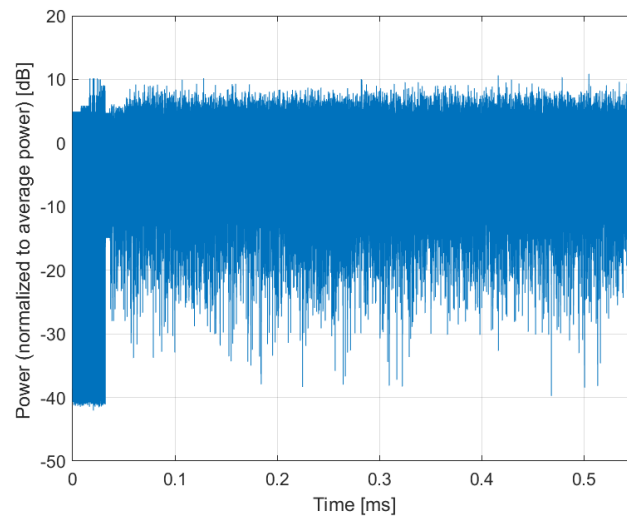
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 10758-AAC

PAR: ¹ **8.69 dB**
MIF: ² **-17.45 dB**

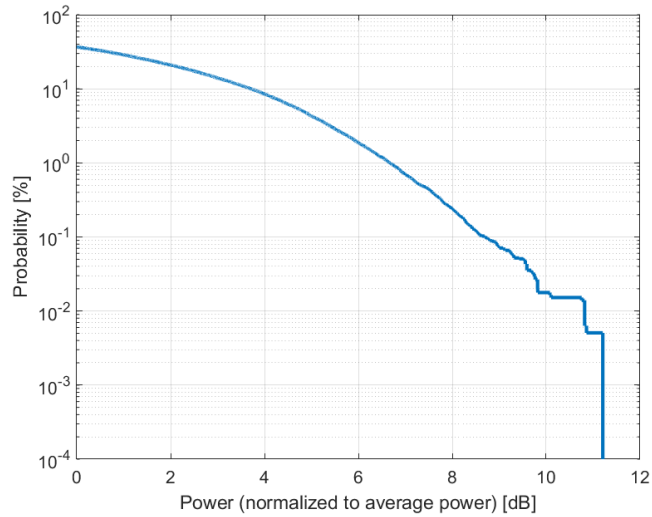
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

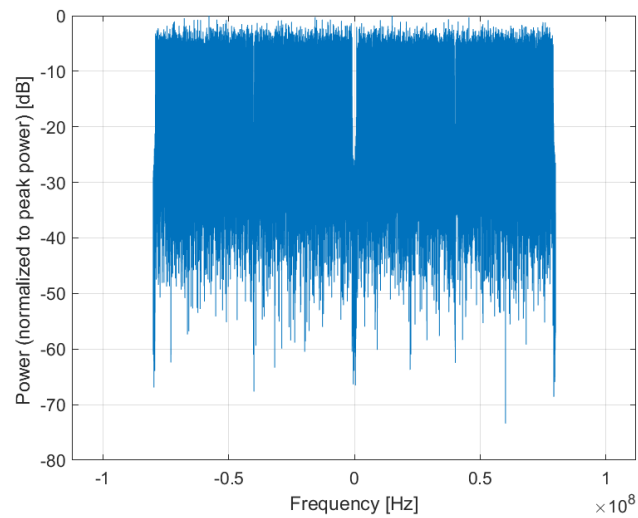
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

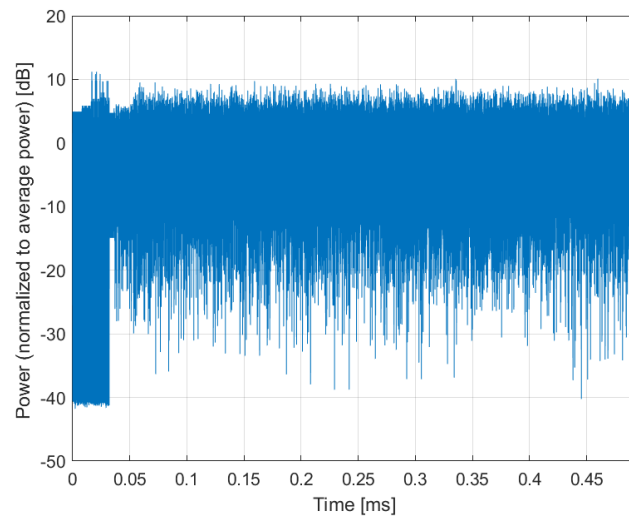
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 10759-AAC

PAR: ¹ **8.58 dB**
MIF: ² **-18.04 dB**

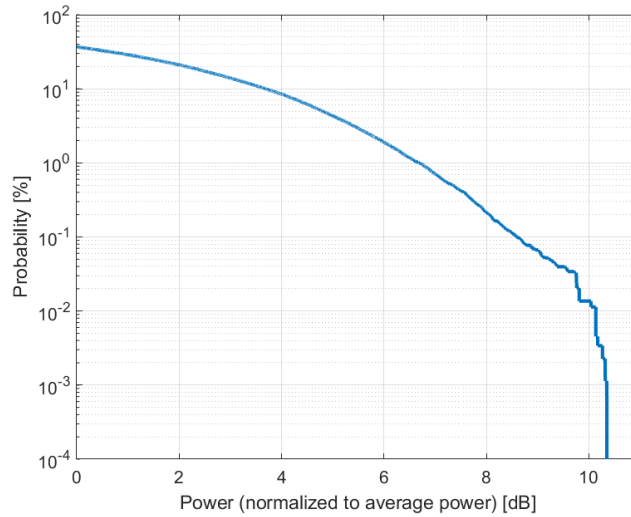
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

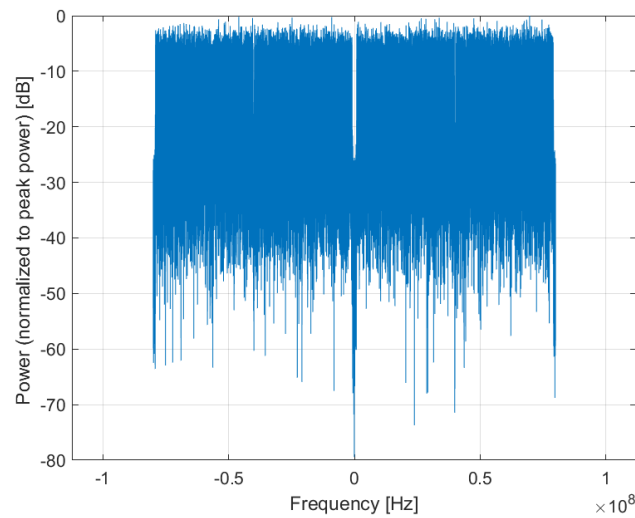
Bandwidth: 160.0 MHz
Integration Time: 0.6 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

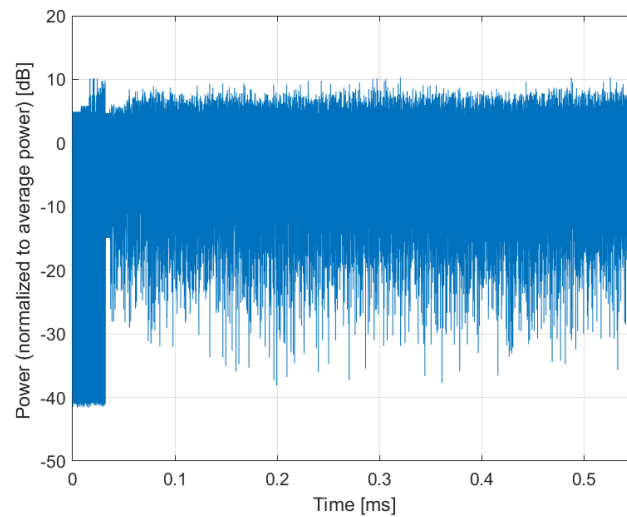
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)**

Group: WLAN
UID: 10760-AAC

PAR: ¹ **8.49 dB**
MIF: ² **-17.18 dB**

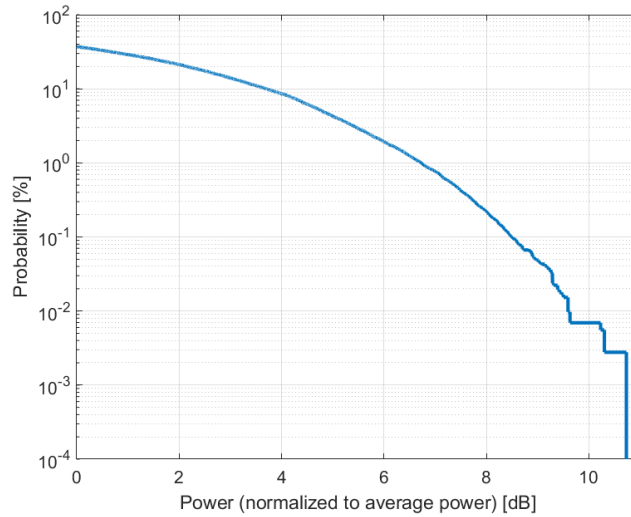
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

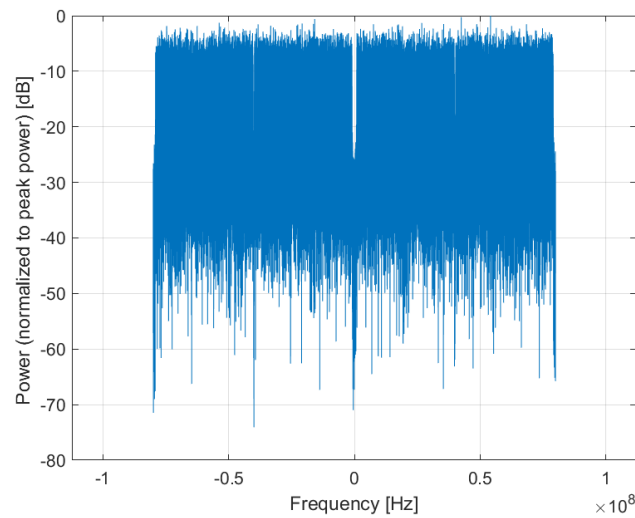
Bandwidth: 160.0 MHz
Integration Time: 0.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

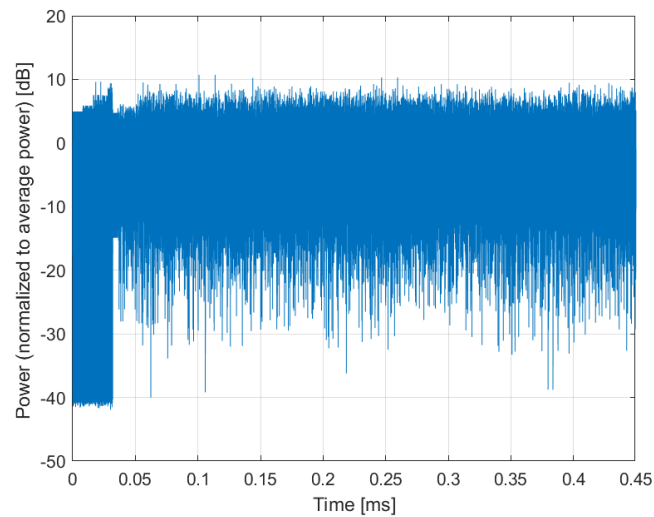
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 10761-AAC

PAR: ¹ **8.58 dB**
MIF: ² **-17.80 dB**

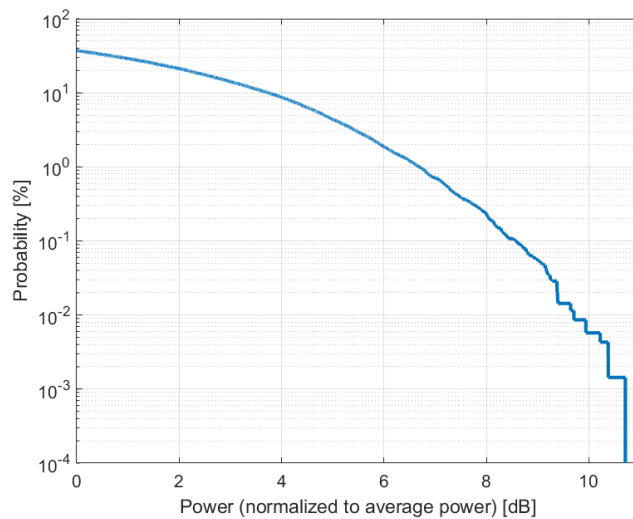
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

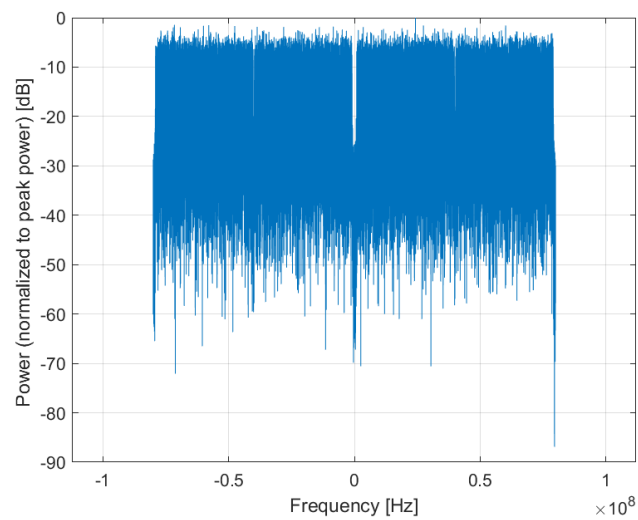
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

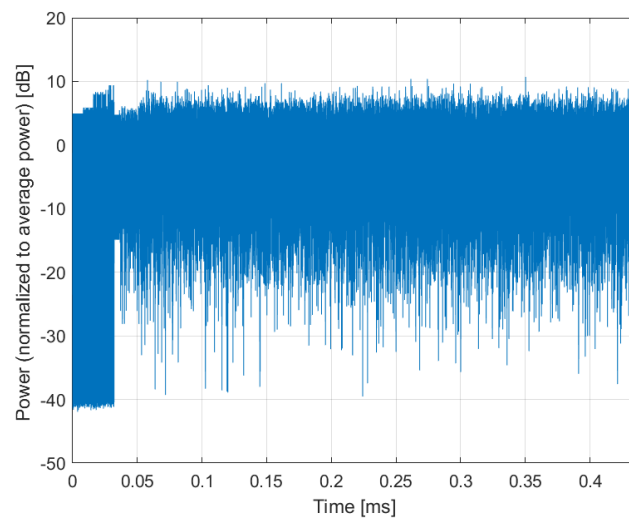
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 10762-AAC

PAR: ¹ **8.49 dB**
MIF: ² **-17.72 dB**

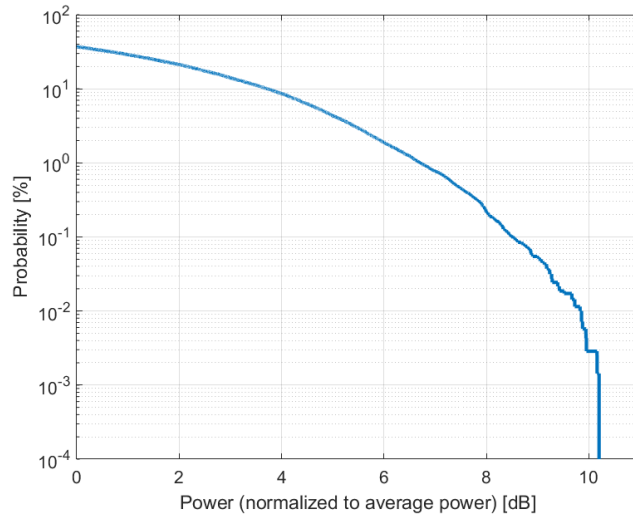
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

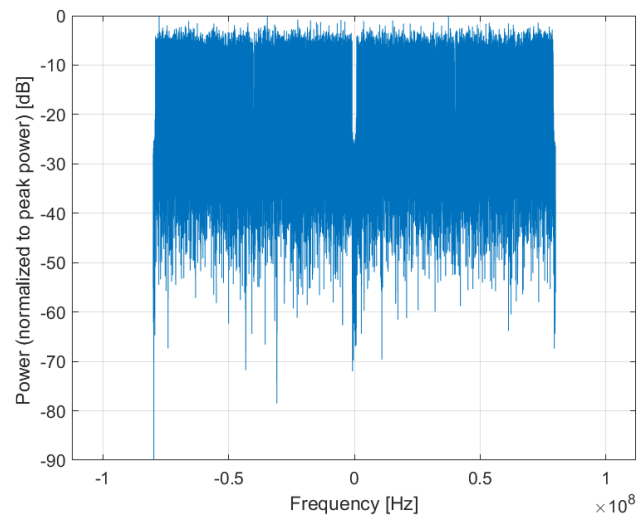
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

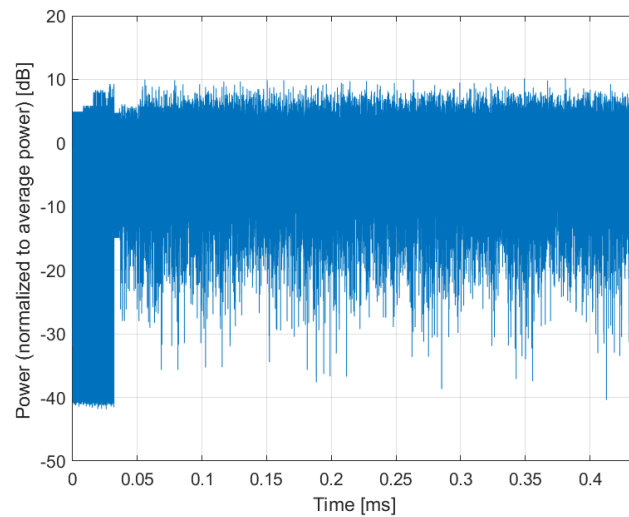
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 10763-AAC

PAR: ¹ **8.53 dB**
MIF: ² **-17.00 dB**

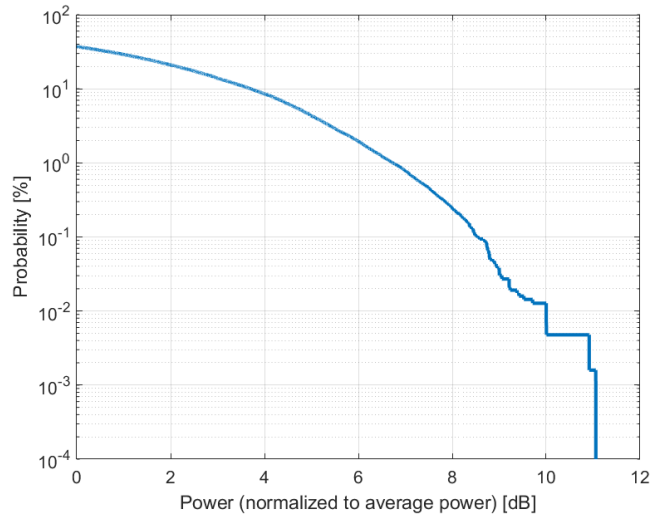
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

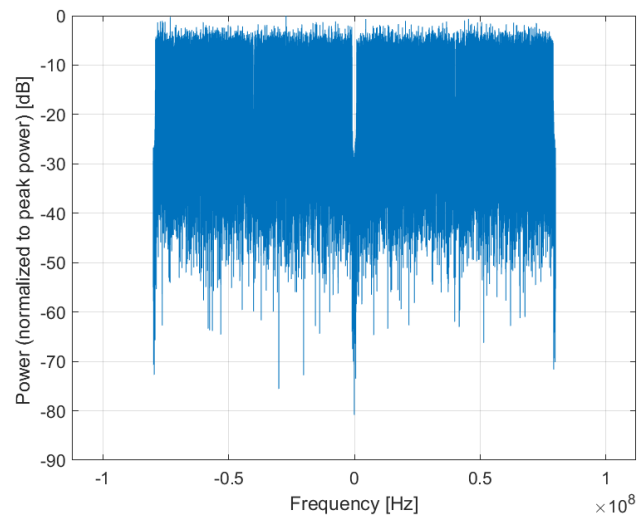
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

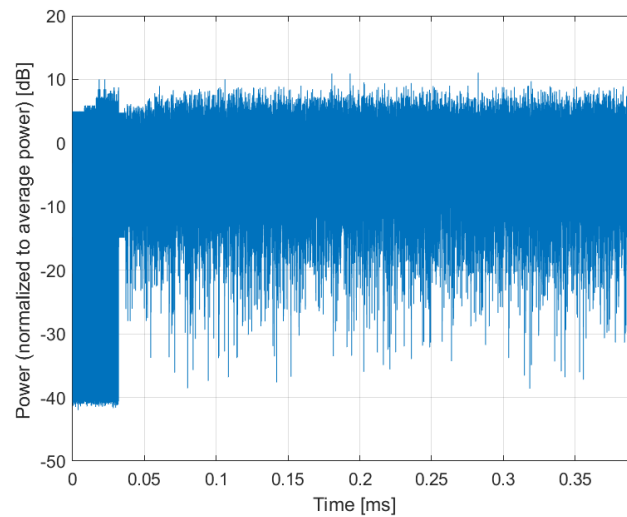
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 10764-AAC

PAR: ¹ **8.54 dB**
MIF: ² **-17.43 dB**

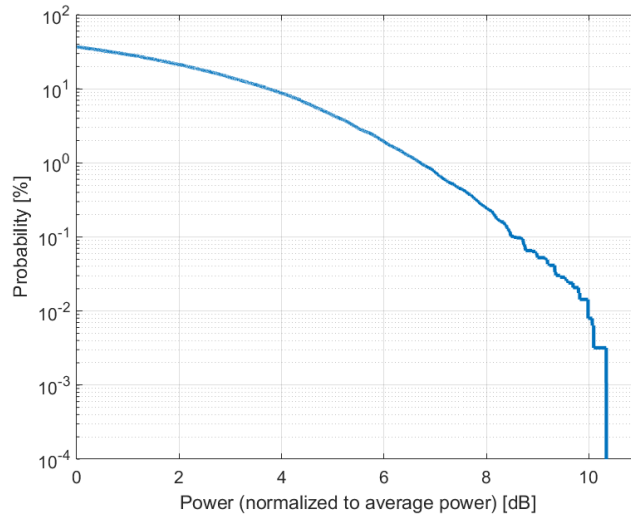
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

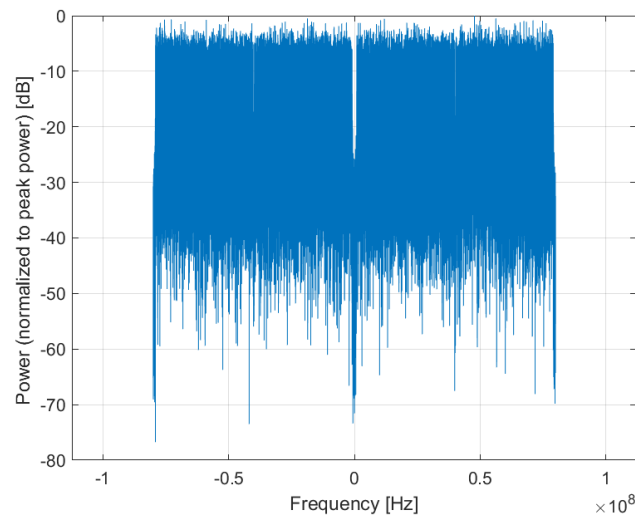
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

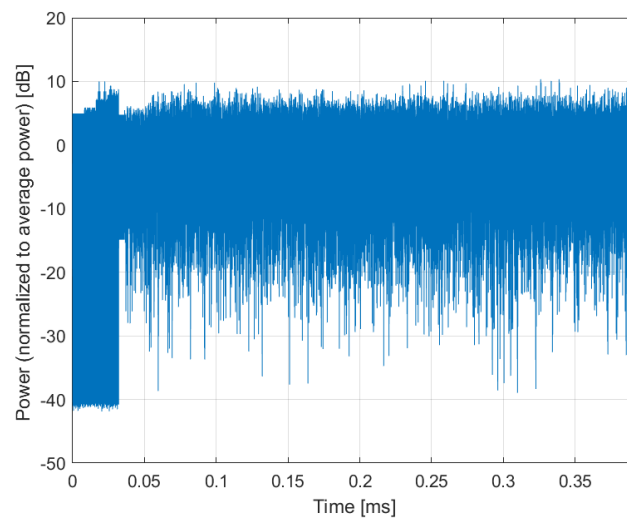
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)**

Group: WLAN
UID: 10765-AAC

PAR: ¹ **8.54 dB**
MIF: ² **-17.11 dB**

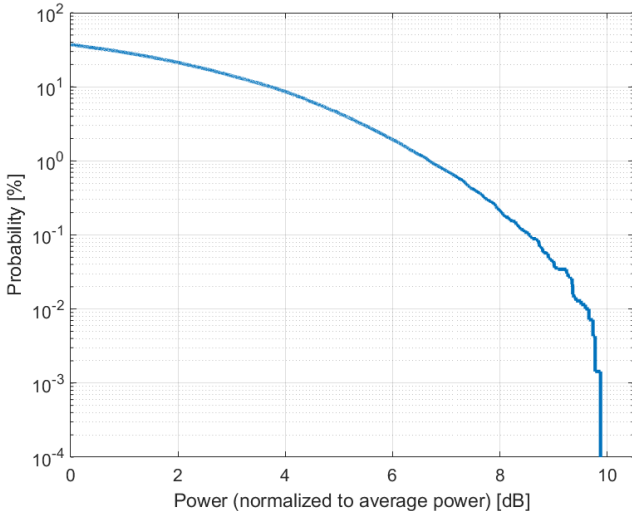
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

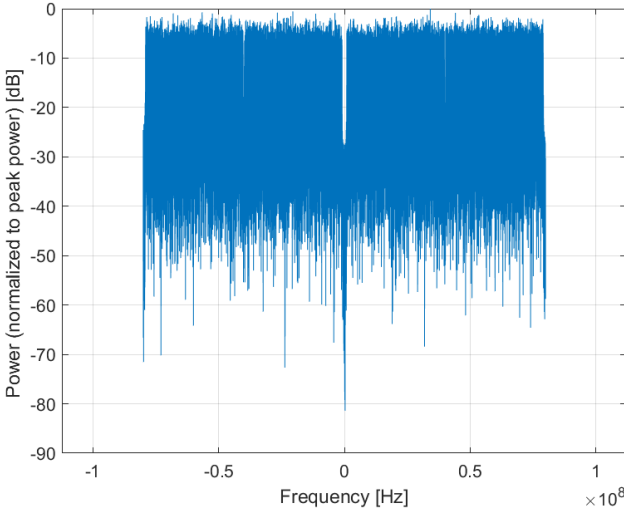
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

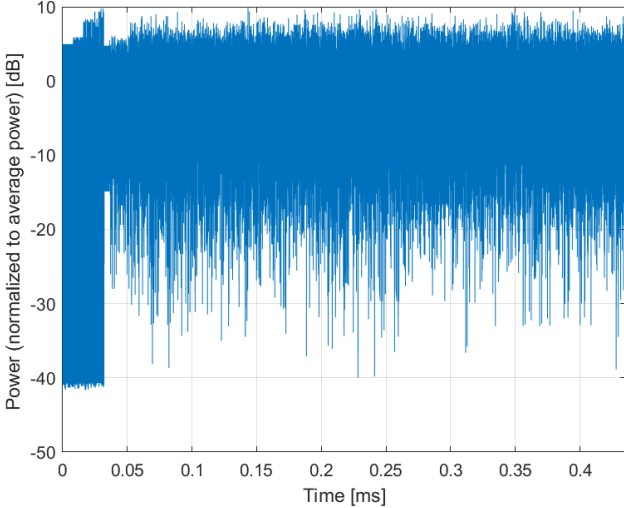
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)**

Group: WLAN
UID: 10766-AAC

PAR: ¹ **8.51 dB**
MIF: ² **-16.98 dB**

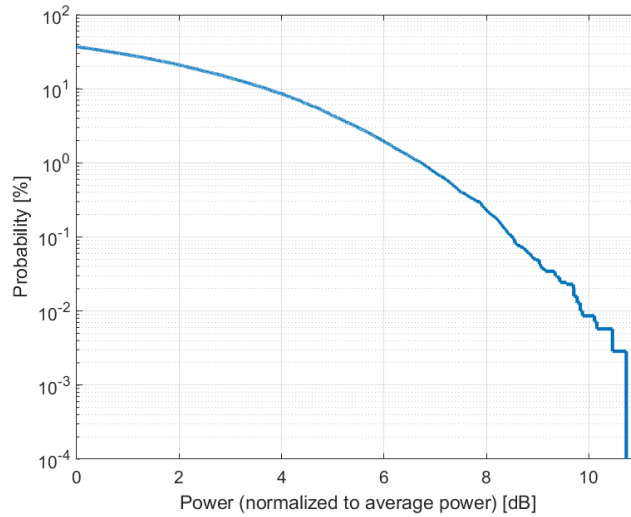
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 2.4GHz (2412.0 - 2484.0 MHz)
WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5.825 - 5.925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 160MHz
Duty Cycle: 99%
Number of spatial stream: 1

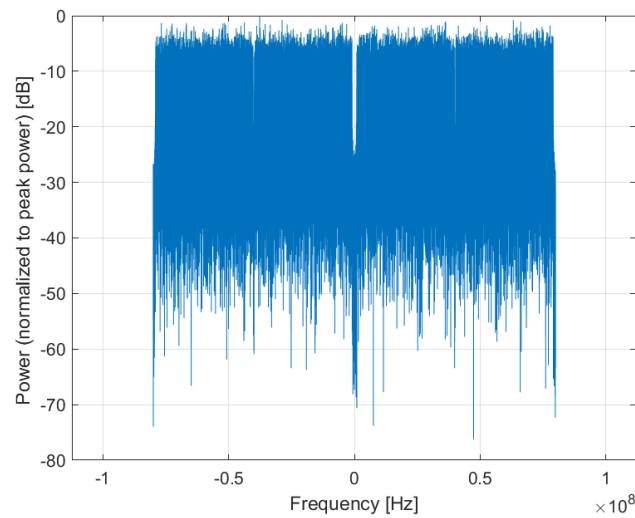
Bandwidth: 160.0 MHz
Integration Time: 0.4 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

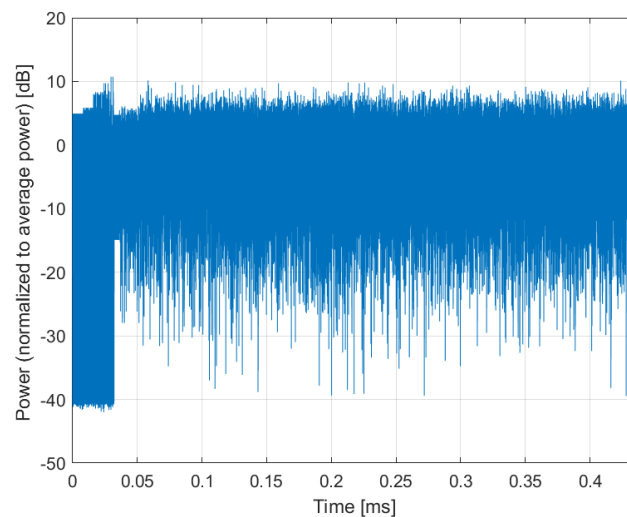
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10767-AAG

PAR: ¹ **7.99 dB**
MIF: ² **-12.18 dB**

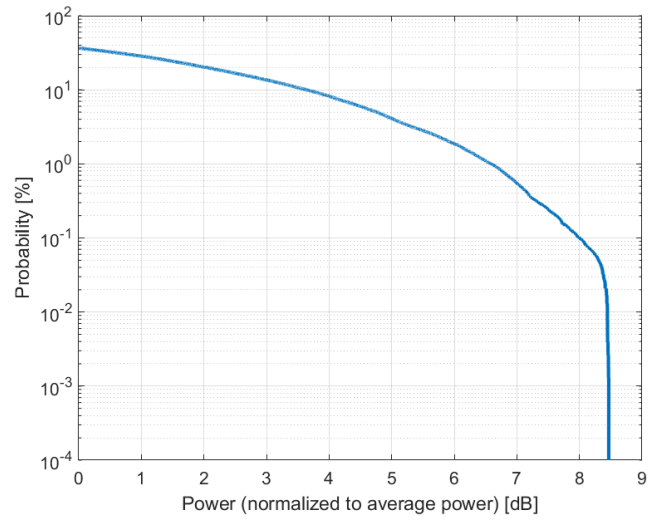
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

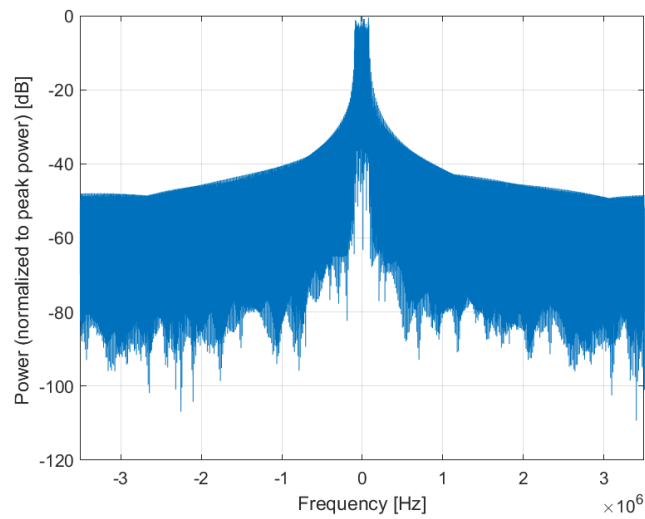
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

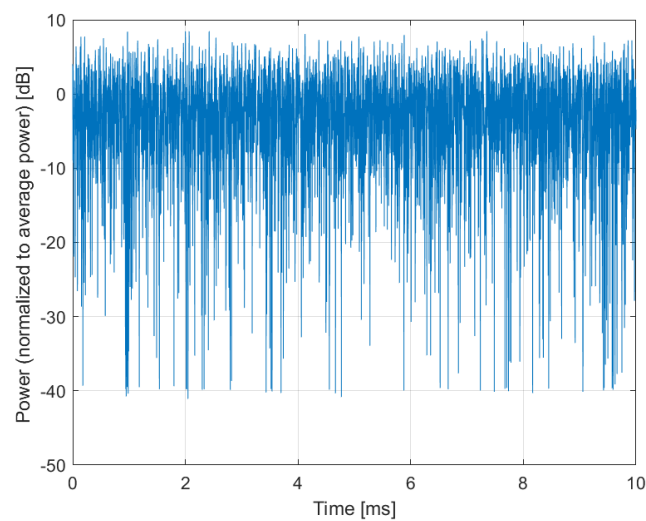
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10768-AAE

PAR: ¹ **8.01 dB**
MIF: ² **-12.26 dB**

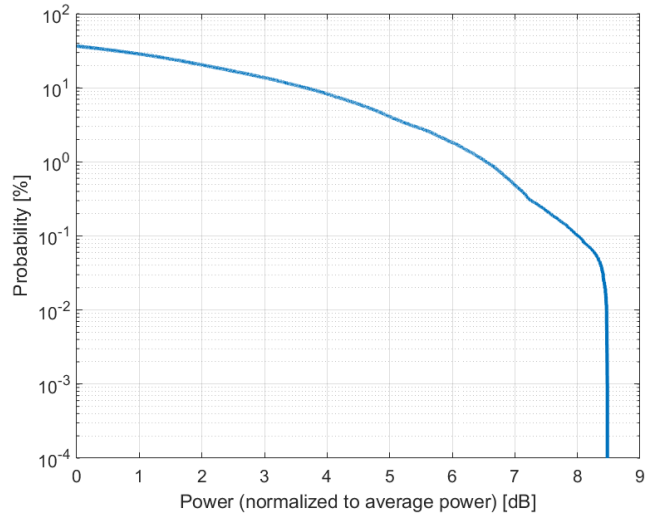
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

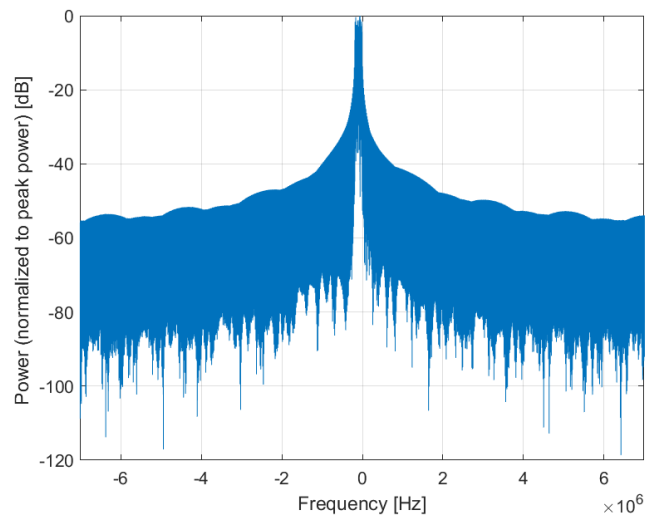
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

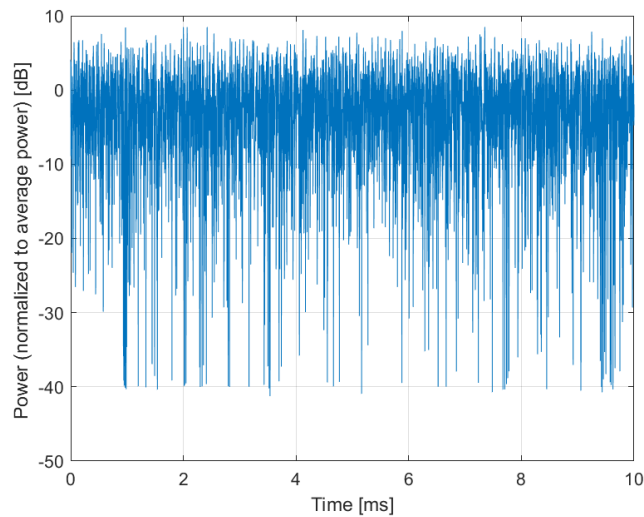
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10769-AAD

PAR: ¹ **8.01 dB**
MIF: ² **-12.08 dB**

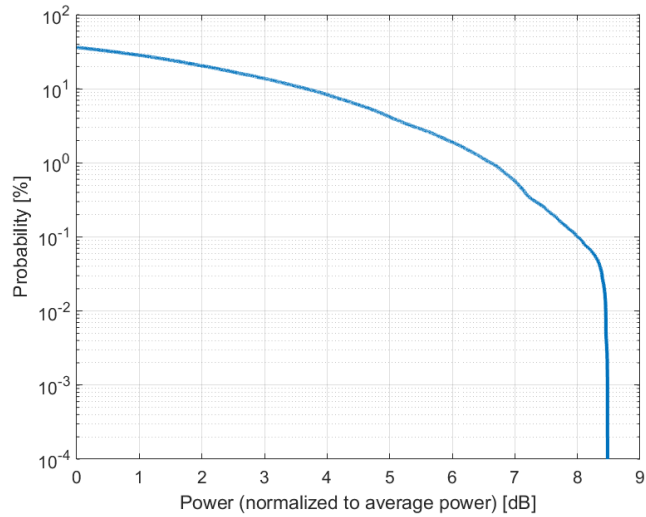
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

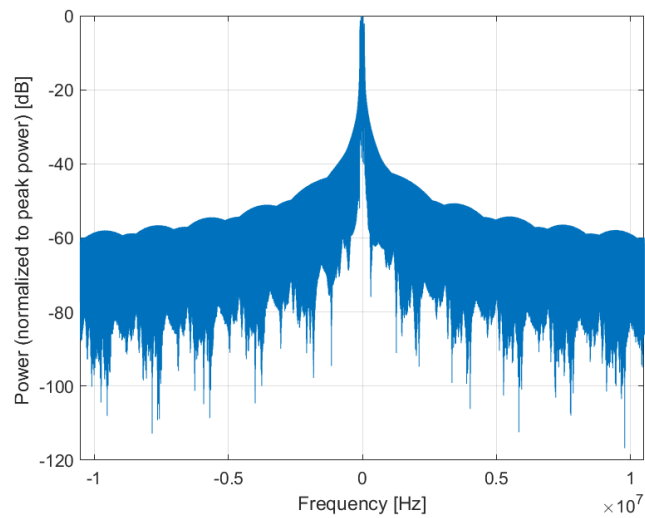
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

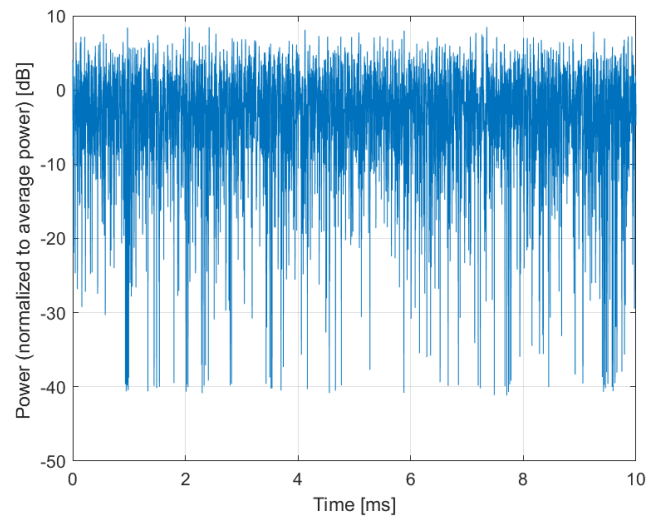
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10770-AAE

PAR: ¹ **8.02 dB**
MIF: ² **-12.20 dB**

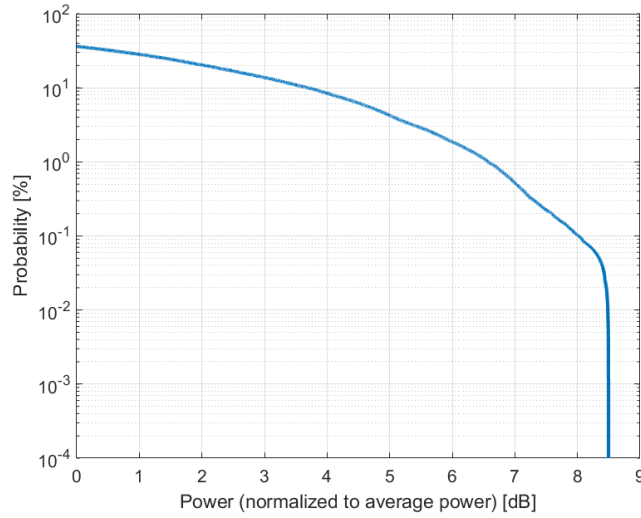
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

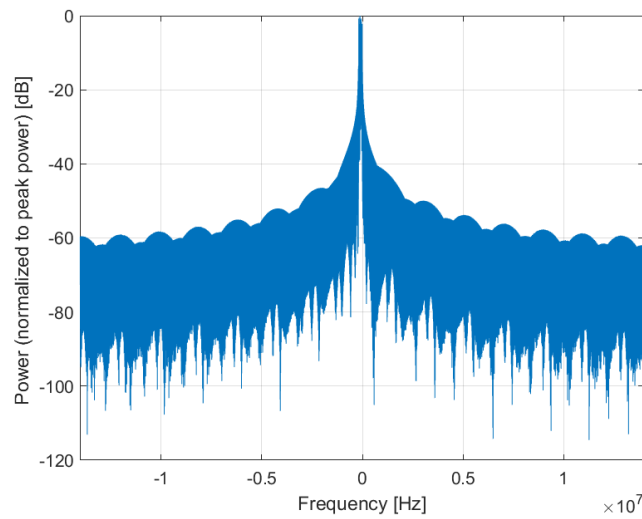
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

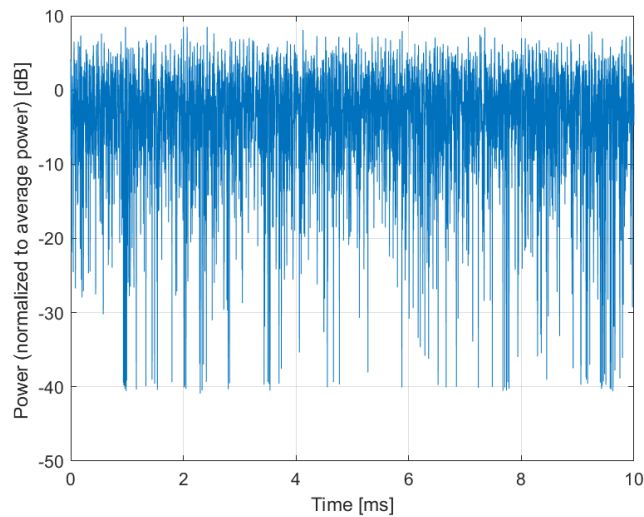
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10771-AAD

PAR:¹ **8.02 dB**
MIF:² **-12.22 dB**

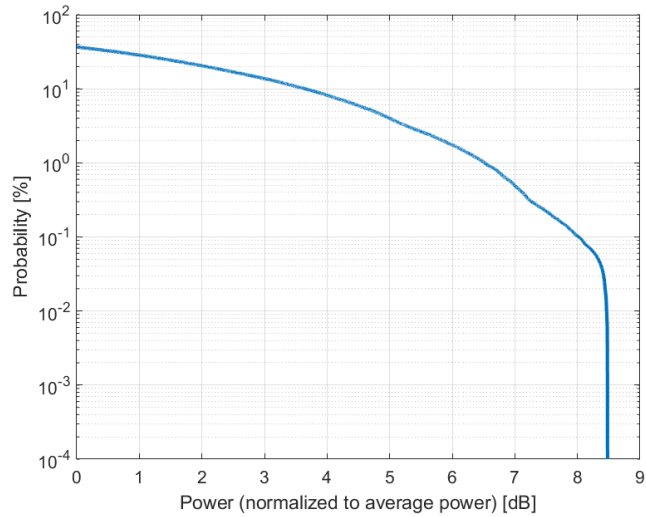
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

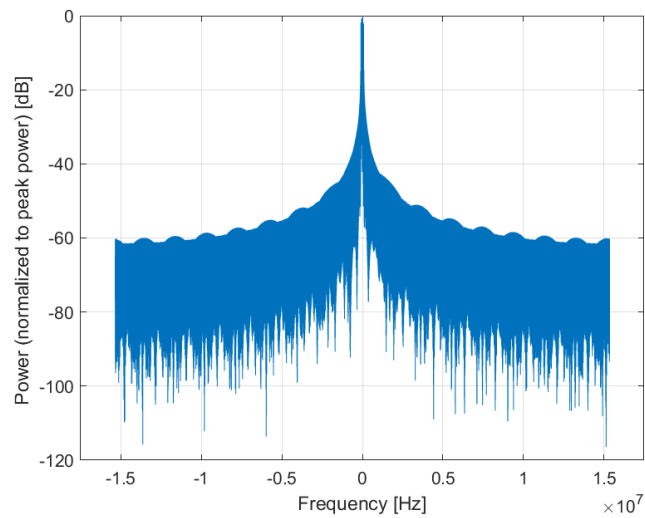
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

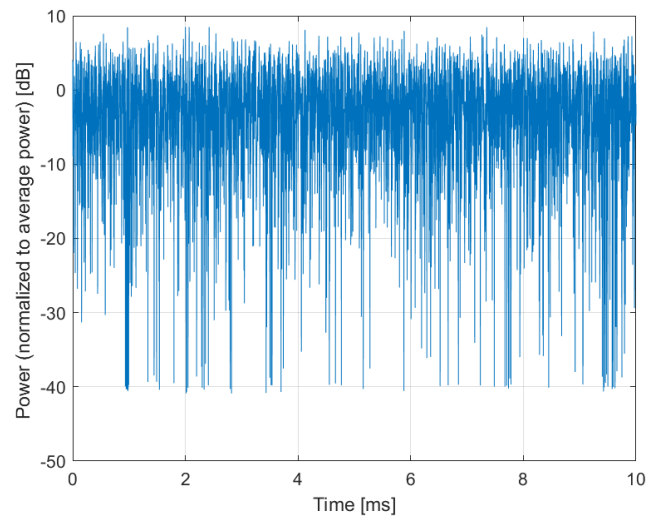
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10772-AAE

PAR: ¹ **8.23 dB**
MIF: ² **-12.20 dB**

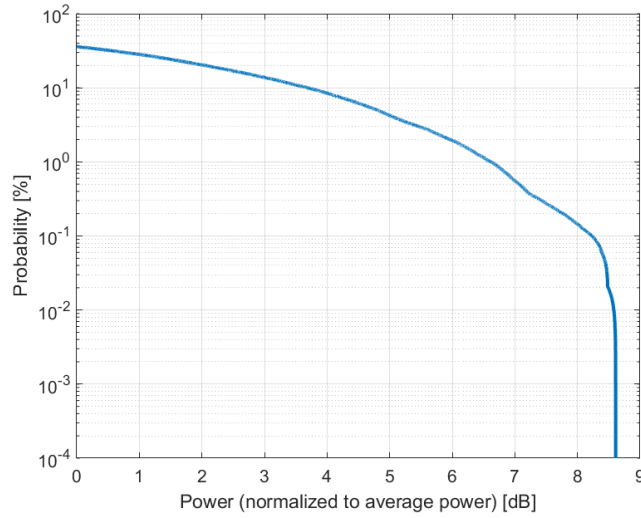
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

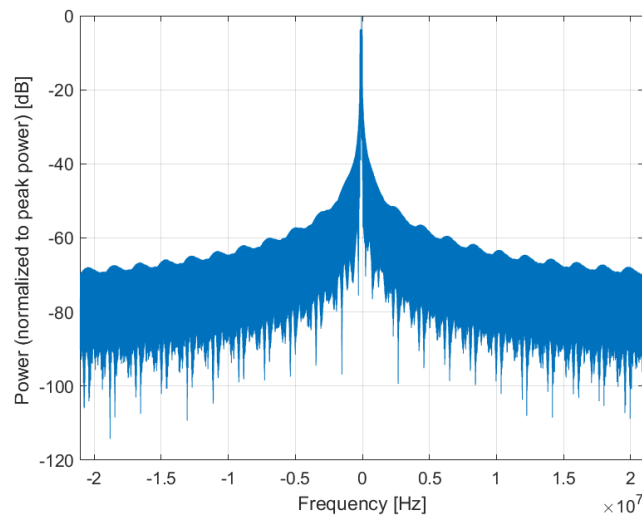
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

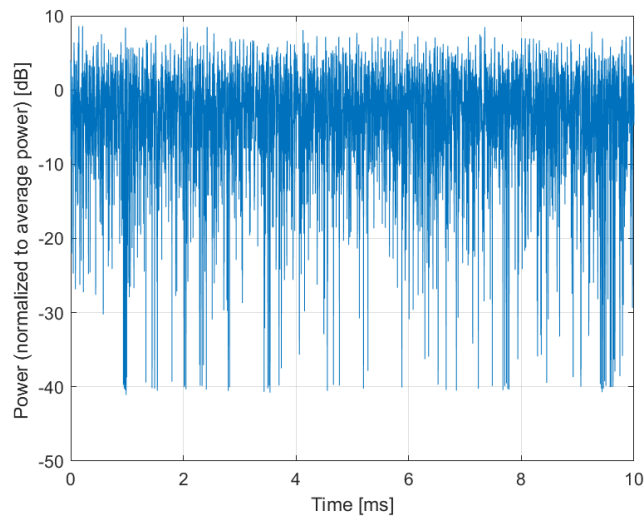
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10773-AAF

PAR: ¹ **8.03 dB**
MIF: ² **-12.13 dB**

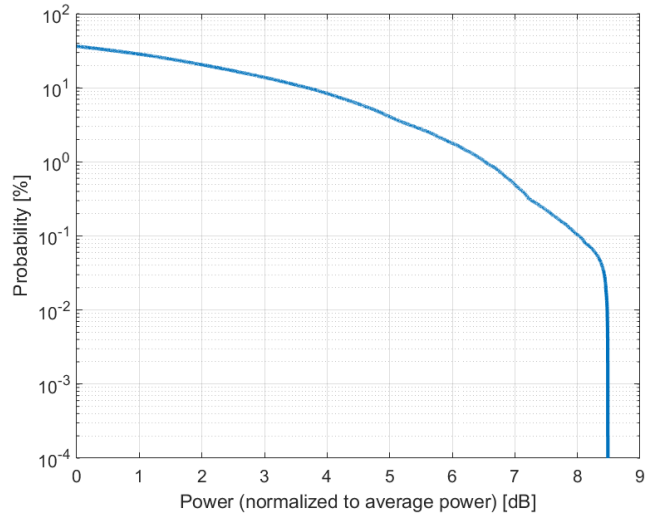
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

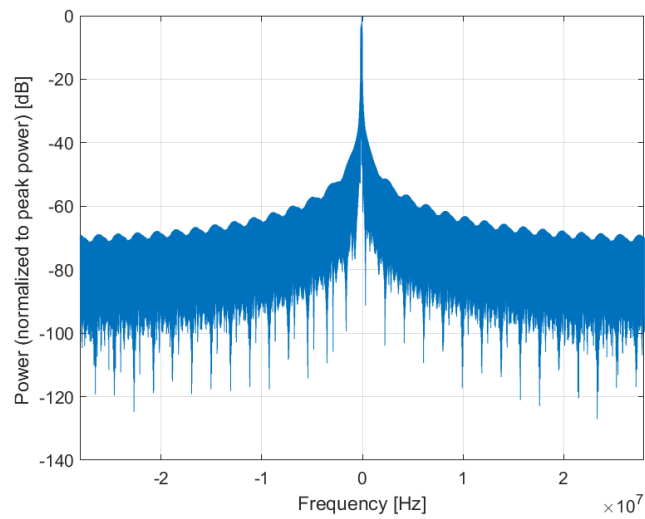
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

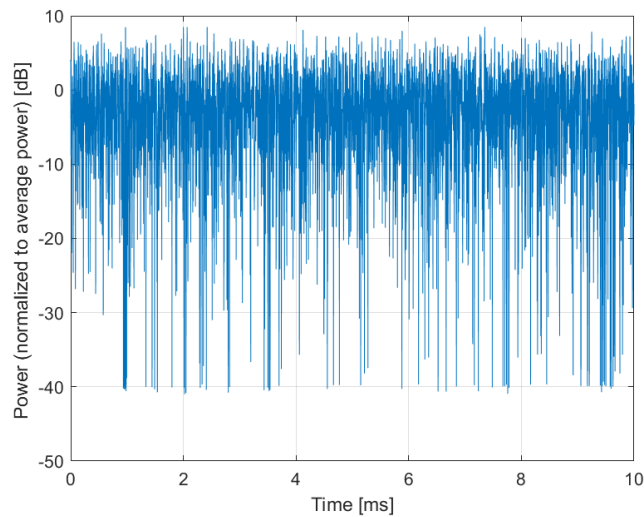
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10774-AAE

PAR: ¹ **8.02 dB**
MIF: ² **-12.25 dB**

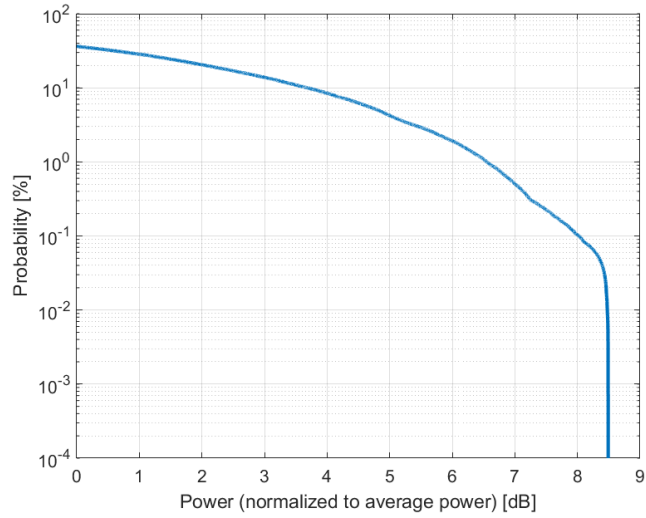
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

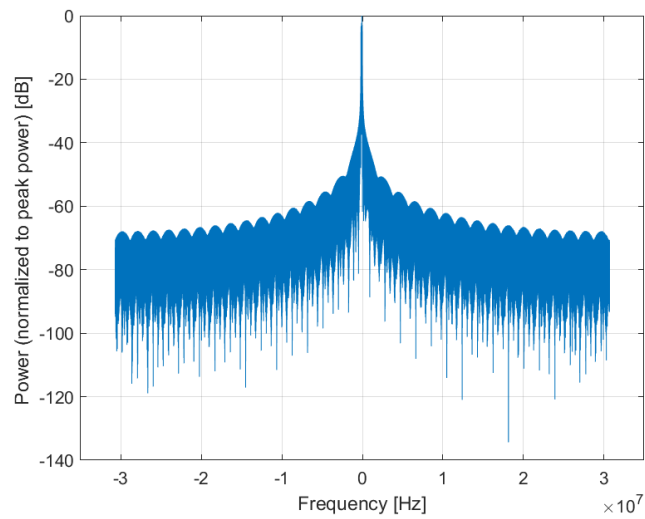
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

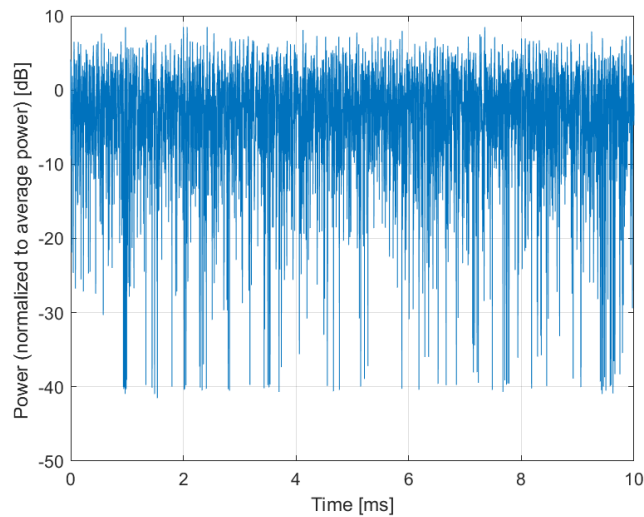
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10775-AAF

PAR: ¹ **8.31 dB**
MIF: ² **-18.51 dB**

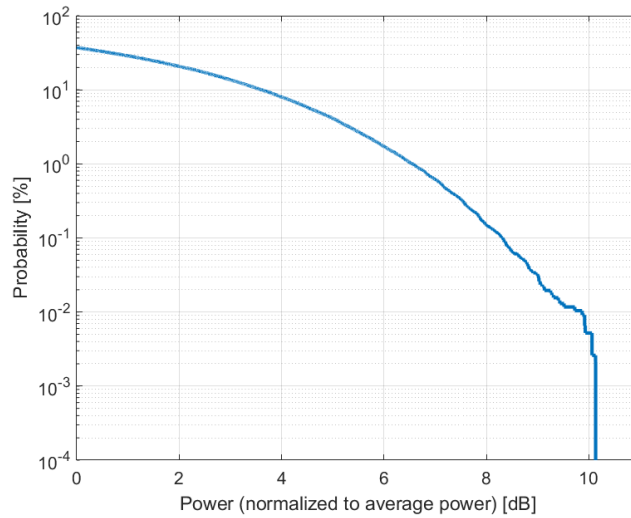
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 13
Slot Format Index: 1
Data Type: PN9

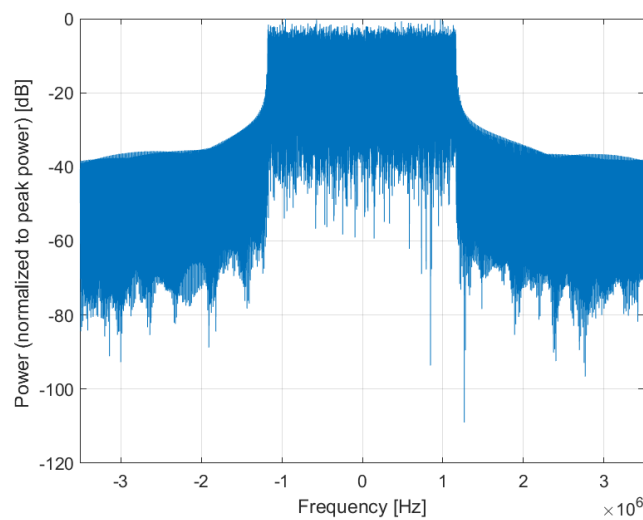
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

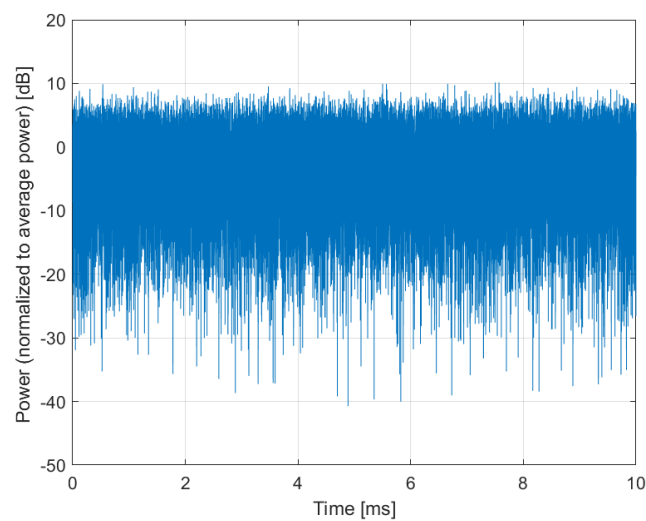
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10776-AAE

PAR: ¹ **8.30 dB**
MIF: ² **-19.01 dB**

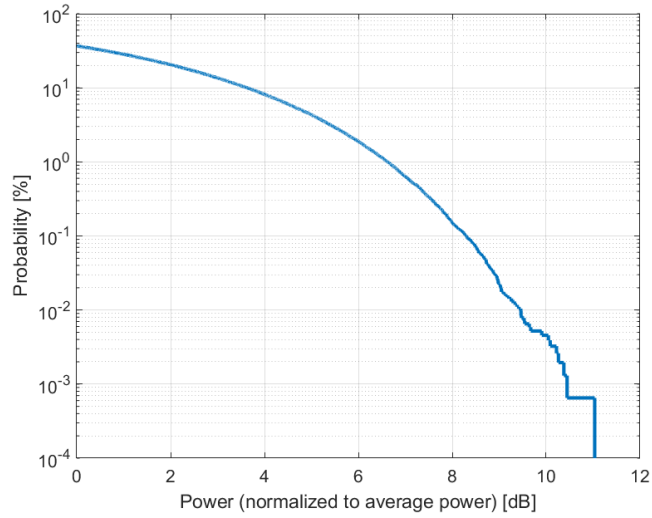
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 26
Slot Format Index: 1
Data Type: PN9

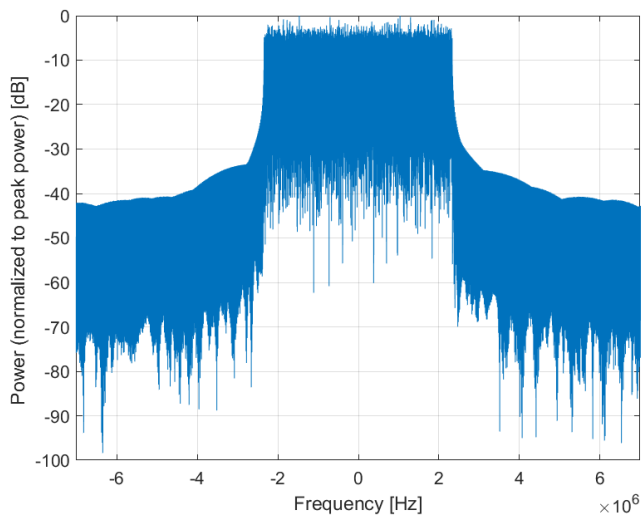
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

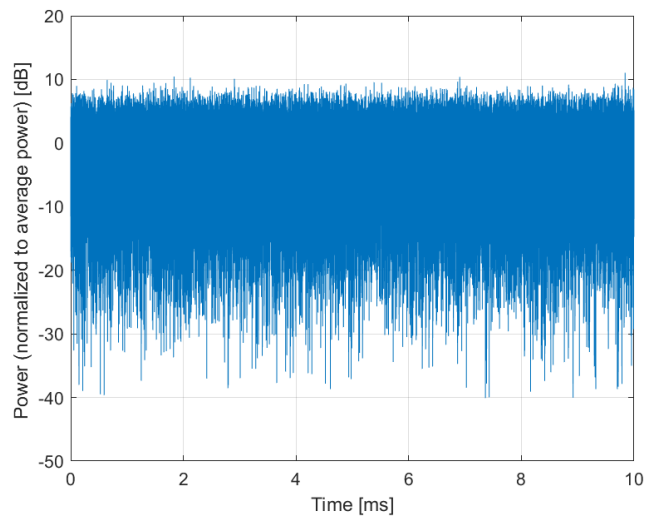
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10777-AAC

PAR:¹ **8.30 dB**
MIF:² **-19.80 dB**

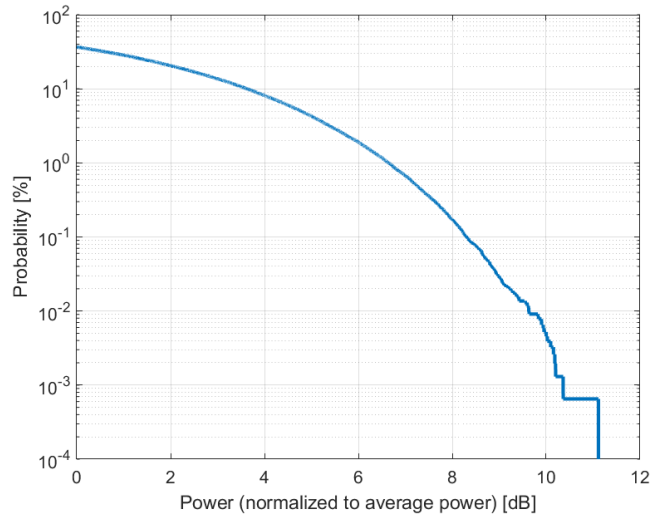
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 39
Slot Format Index: 1
Data Type: PN9

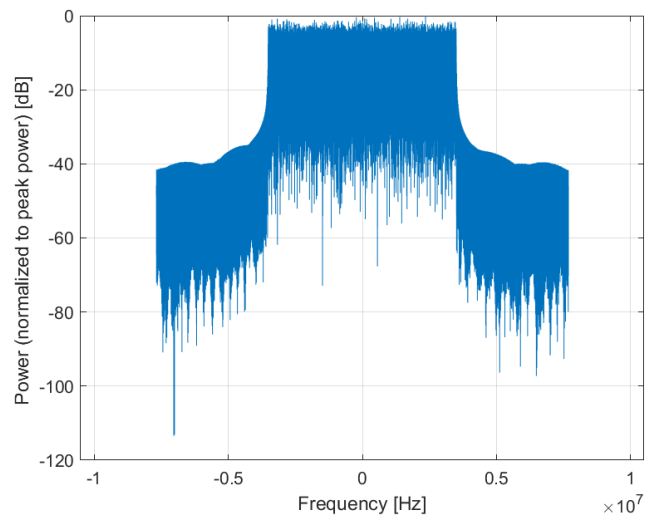
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

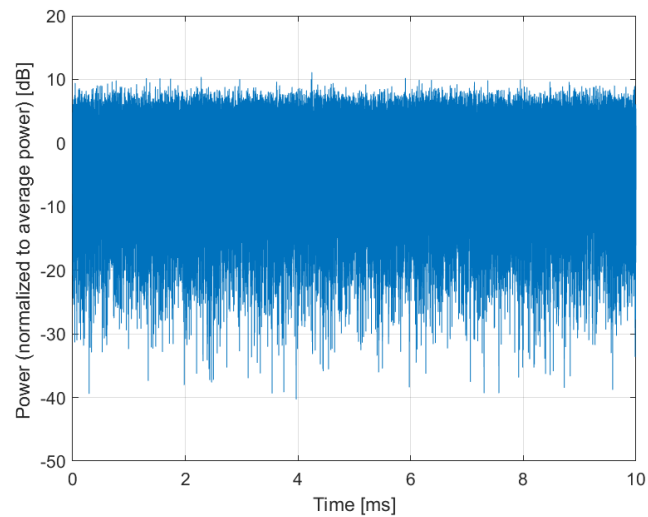
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10778-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-20.71 dB**

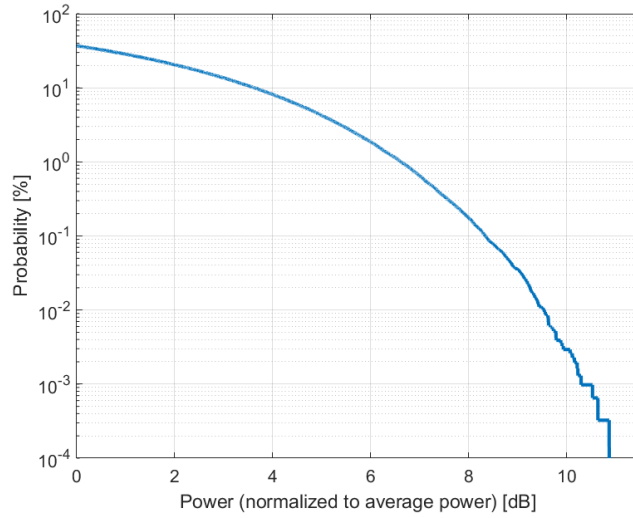
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 53
Slot Format Index: 1
Data Type: PN9

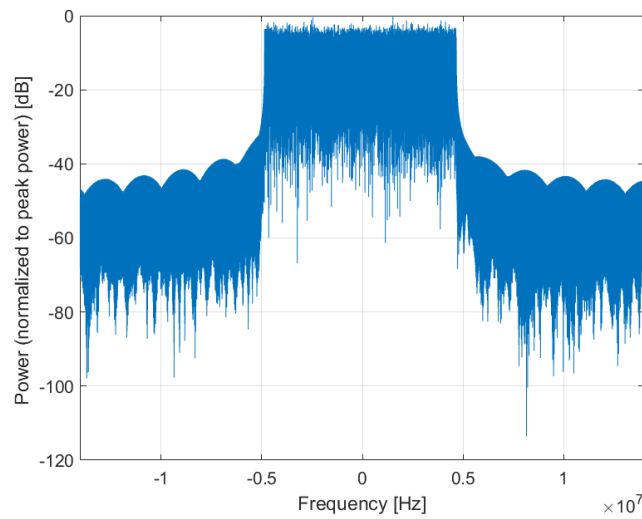
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

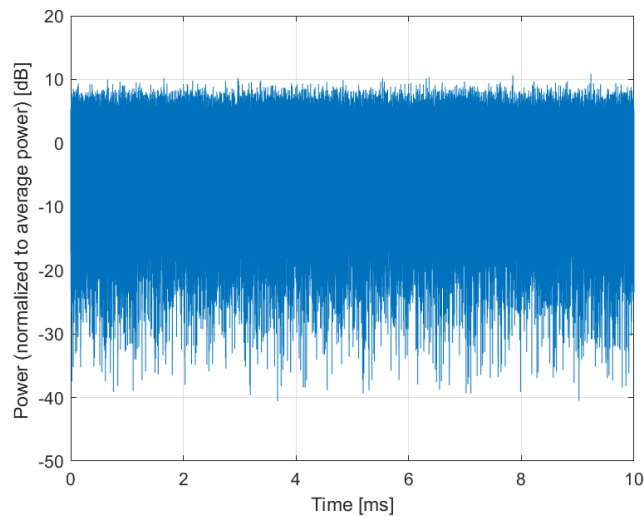
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10779-AAC

PAR: ¹ **8.42 dB**
MIF: ² **-20.99 dB**

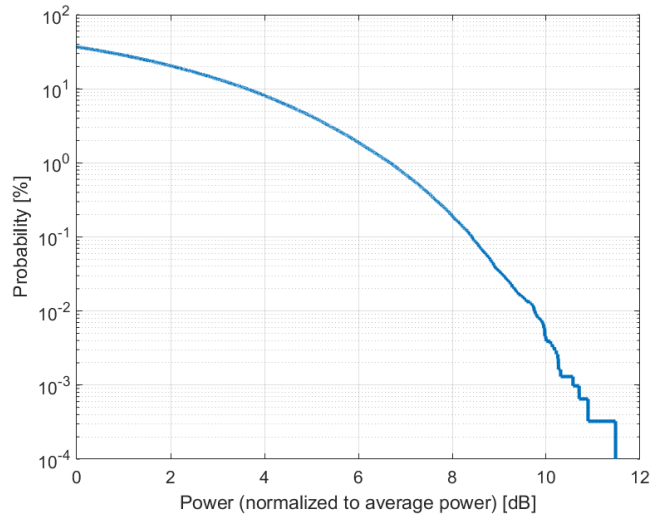
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 67
Slot Format Index: 1
Data Type: PN9

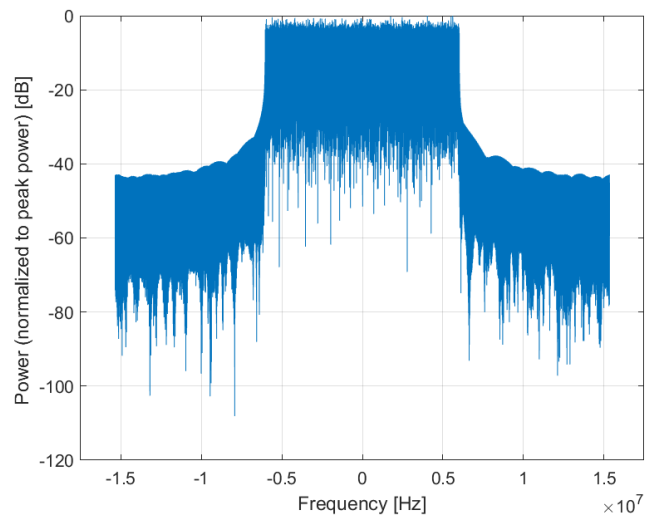
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

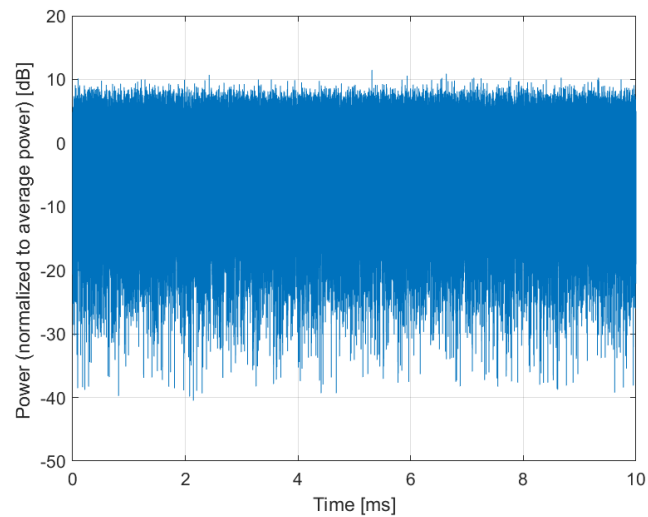
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10780-AAE

PAR: ¹ **8.38 dB**
MIF: ² **-21.75 dB**

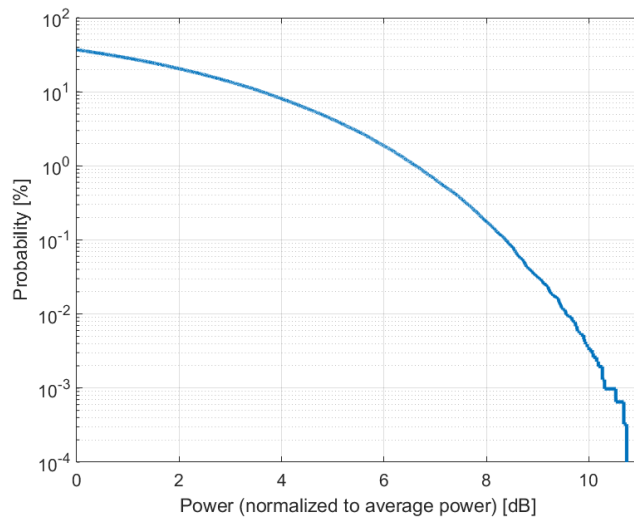
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 80
Slot Format Index: 1
Data Type: PN9

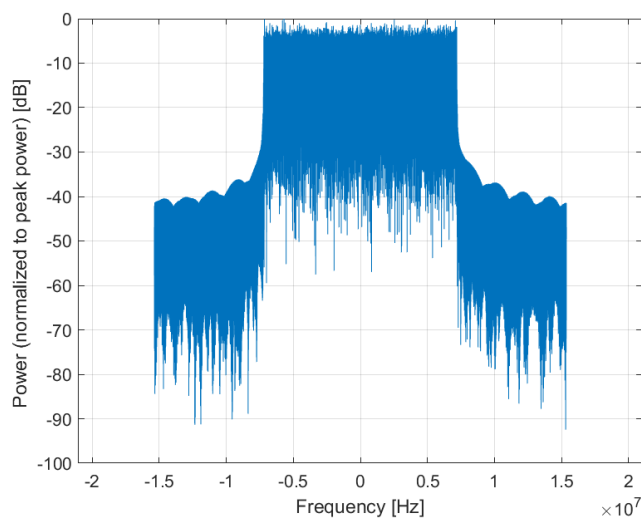
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

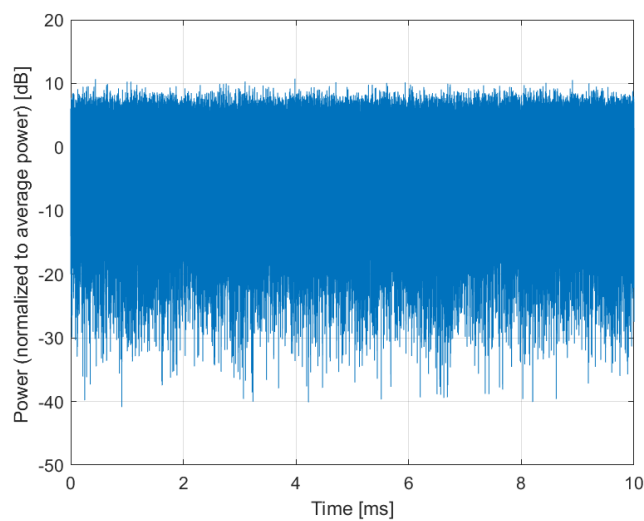
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10781-AAF

PAR: ¹ **8.38 dB**
MIF: ² **-22.40 dB**

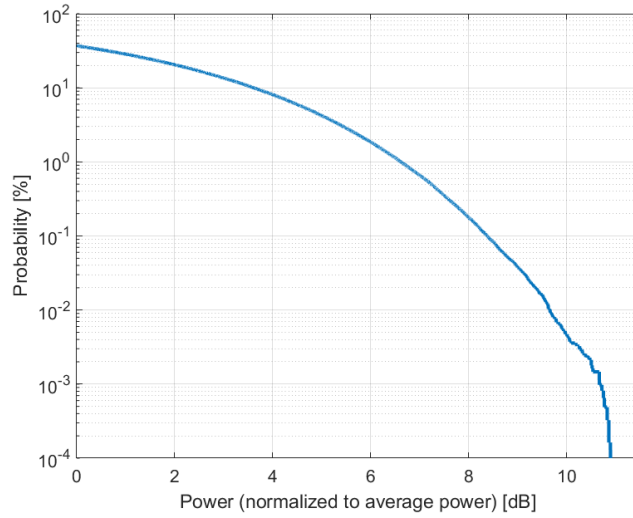
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 108
Slot Format Index: 1
Data Type: PN9

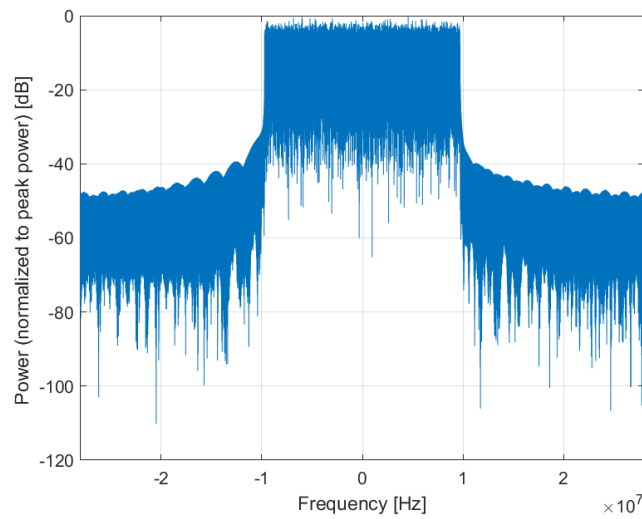
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

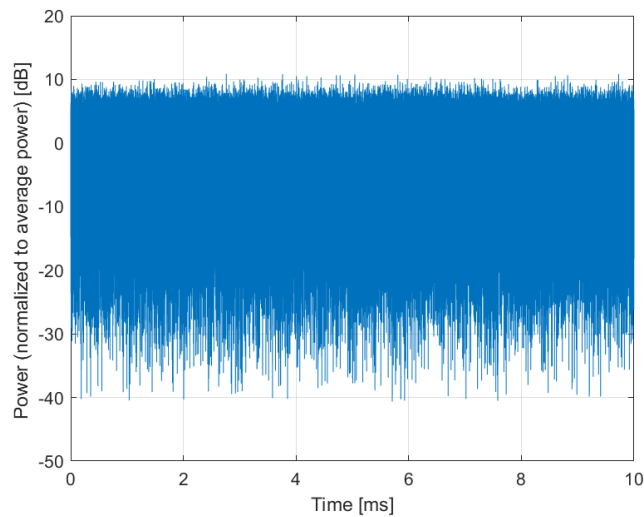
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10782-AAE

PAR: ¹ **8.43 dB**
MIF: ² **-23.16 dB**

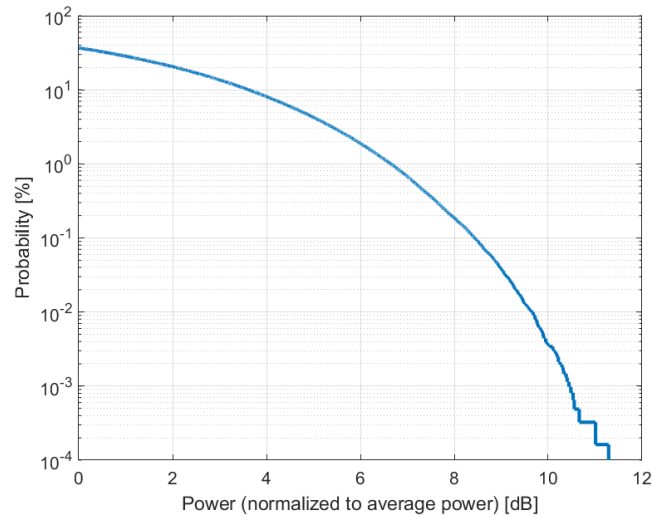
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 135
Slot Format Index: 1
Data Type: PN9

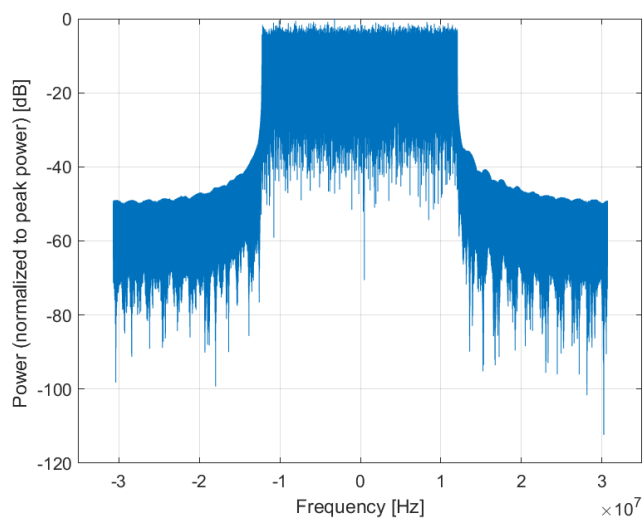
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

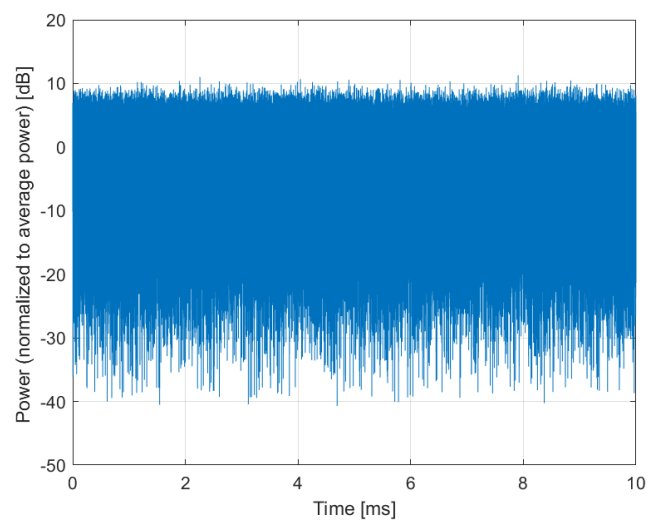
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10783-AAG

PAR: ¹ **8.31 dB**
MIF: ² **-18.84 dB**

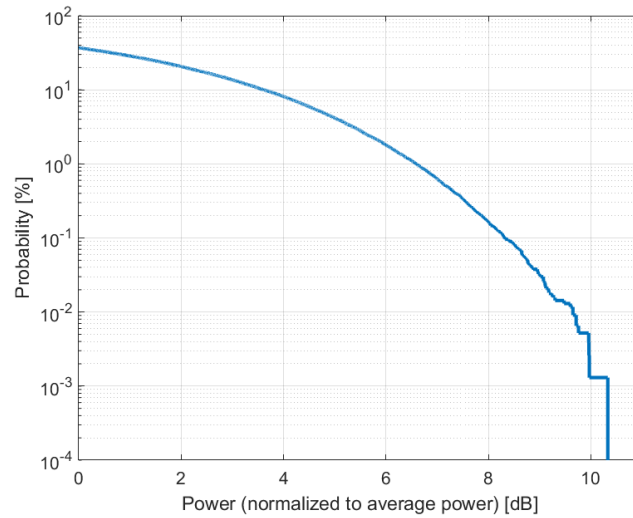
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 25
Slot Format Index: 1
Data Type: PN9

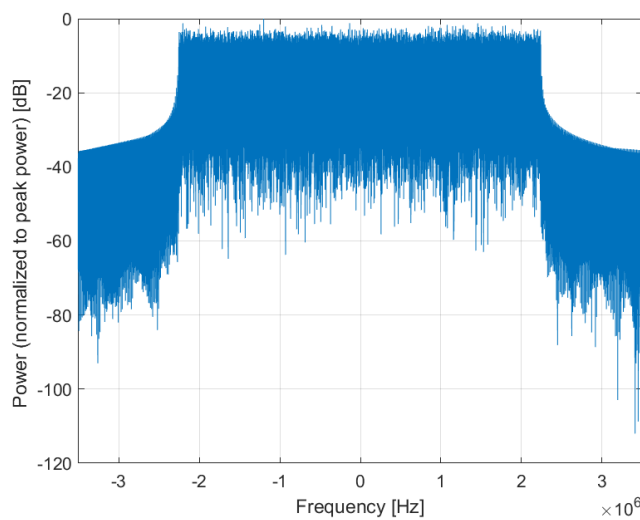
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

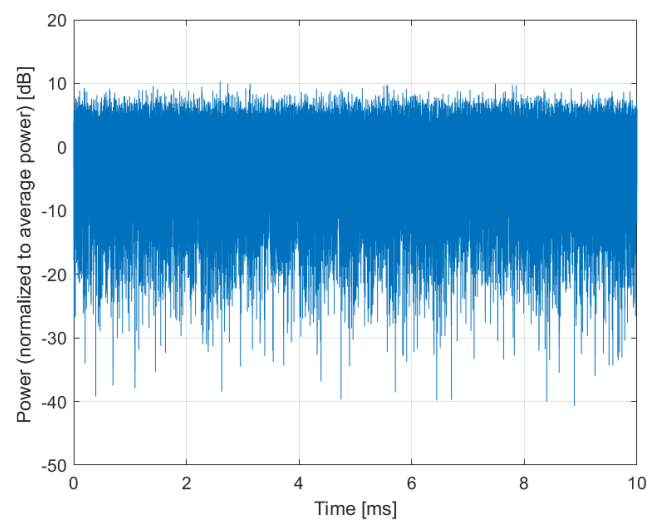
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10784-AAE

PAR: ¹ **8.29 dB**
MIF: ² **-20.70 dB**

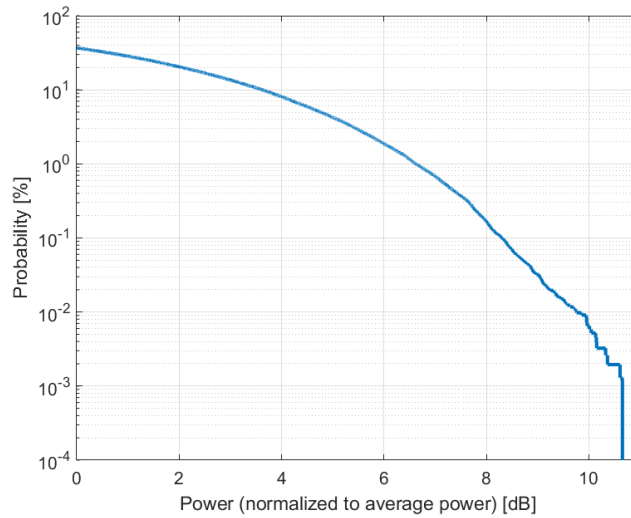
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 52
Slot Format Index: 1
Data Type: PN9

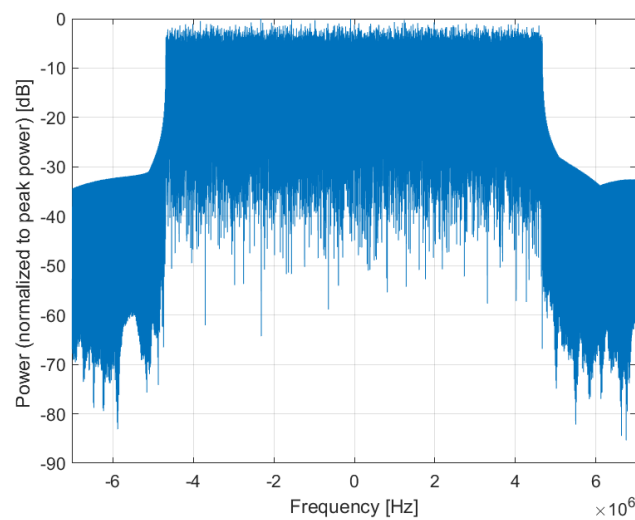
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

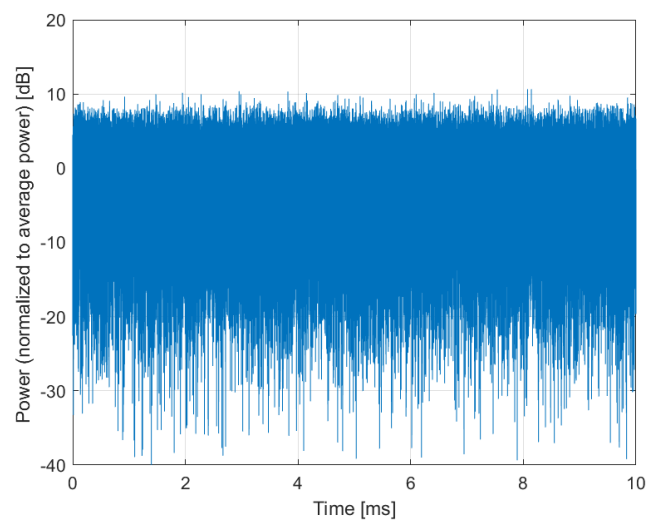
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10785-AAD

PAR: ¹ **8.40 dB**
MIF: ² **-21.52 dB**

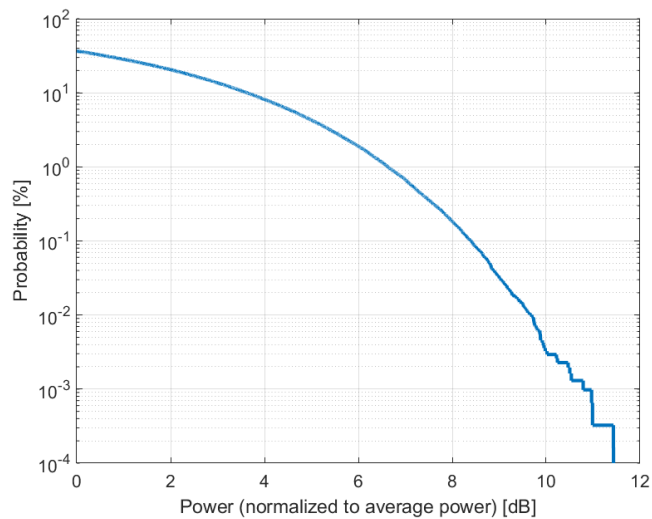
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 79
Slot Format Index: 1
Data Type: PN9

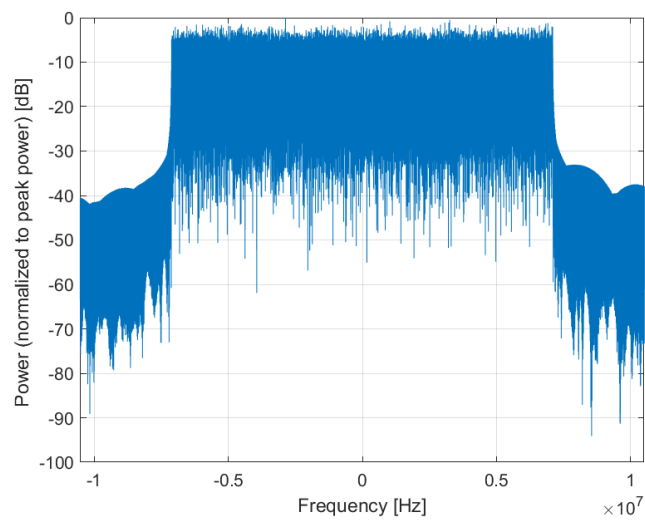
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

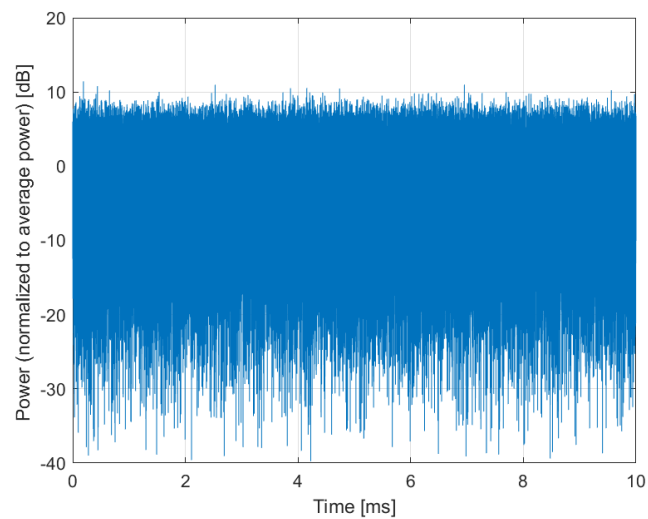
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10786-AAE

PAR: ¹ **8.35 dB**
MIF: ² **-22.47 dB**

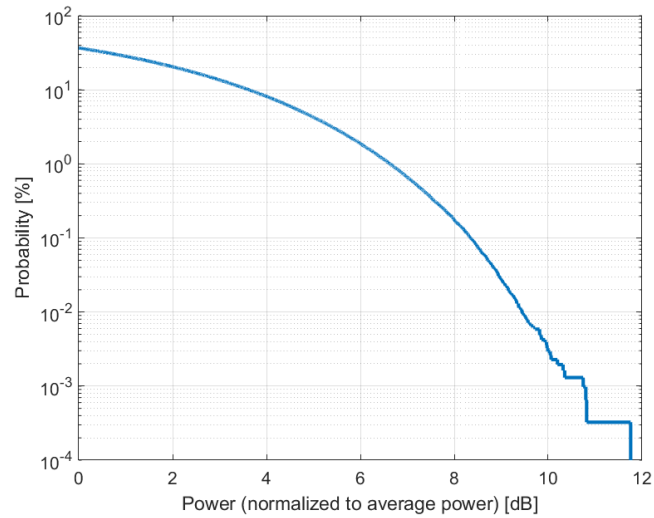
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 106
Slot Format Index: 1
Data Type: PN9

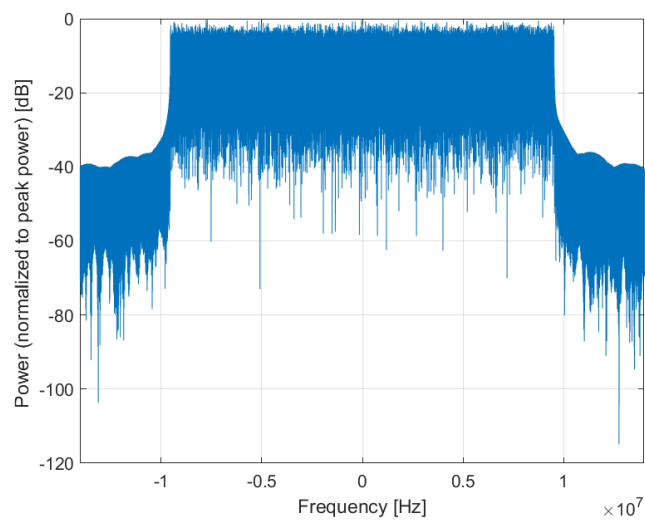
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

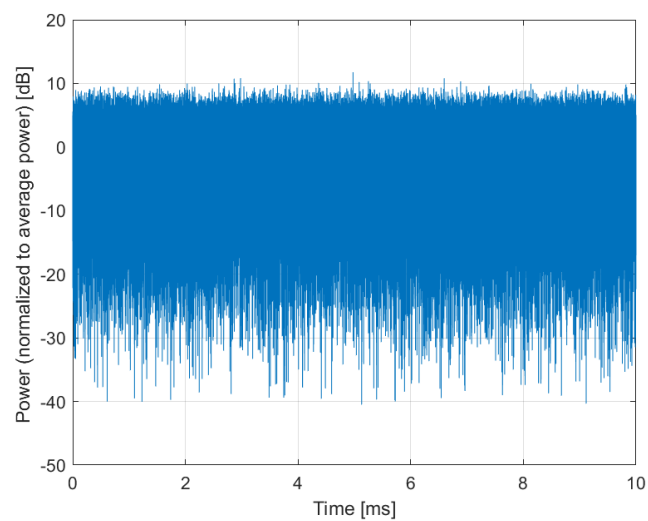
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10787-AAD

PAR: ¹ **8.44 dB**
MIF: ² **-22.72 dB**

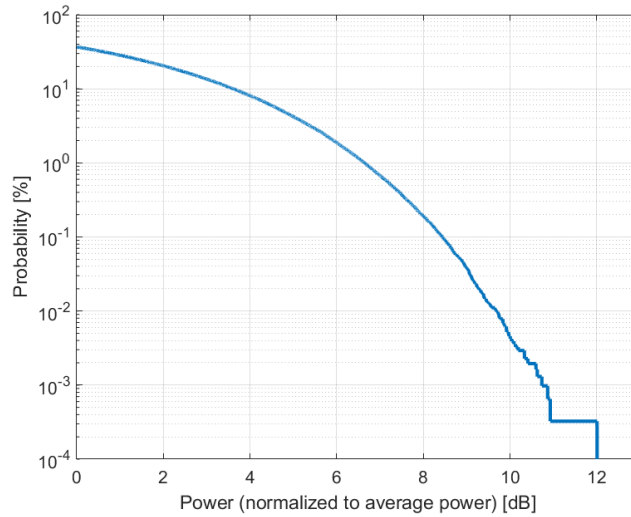
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 133
Slot Format Index: 1
Data Type: PN9

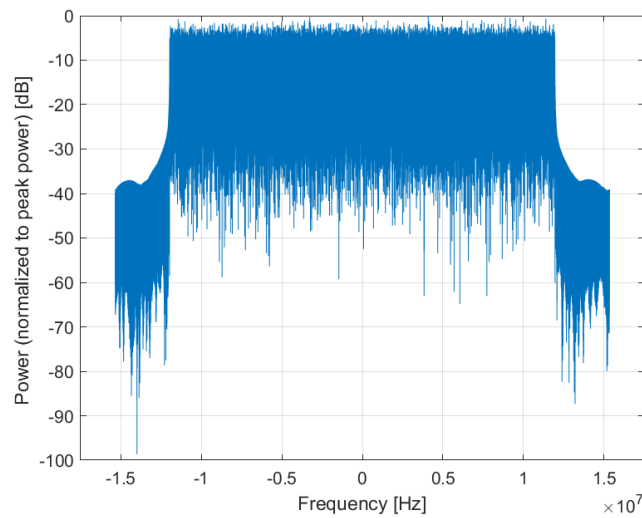
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

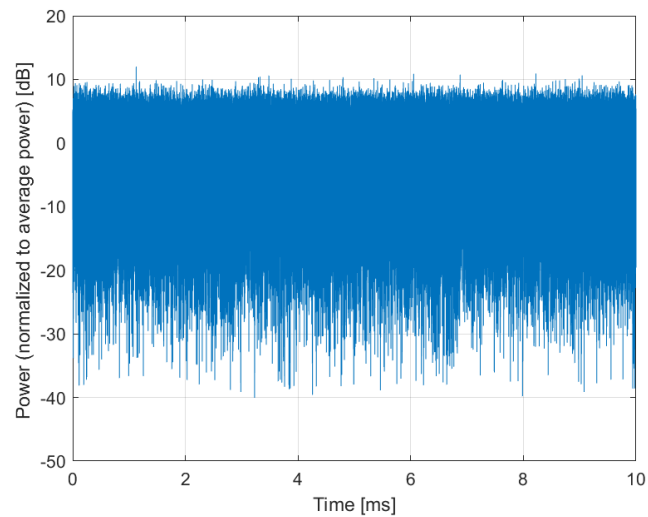
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10788-AAE

PAR: ¹ **8.39 dB**
MIF: ² **-22.83 dB**

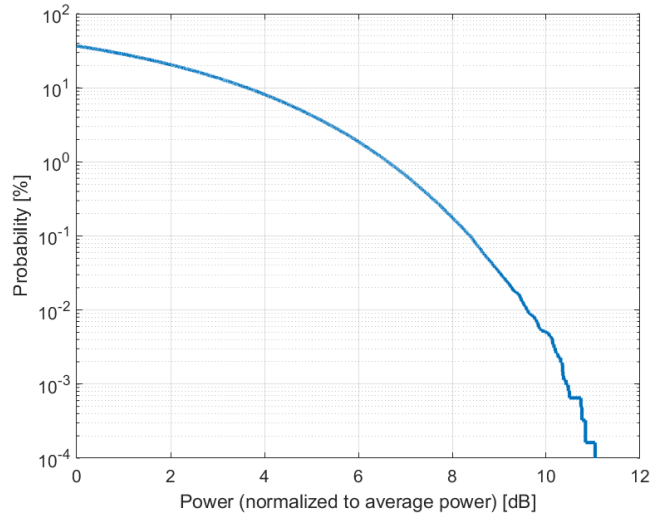
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 160
Slot Format Index: 1
Data Type: PN9

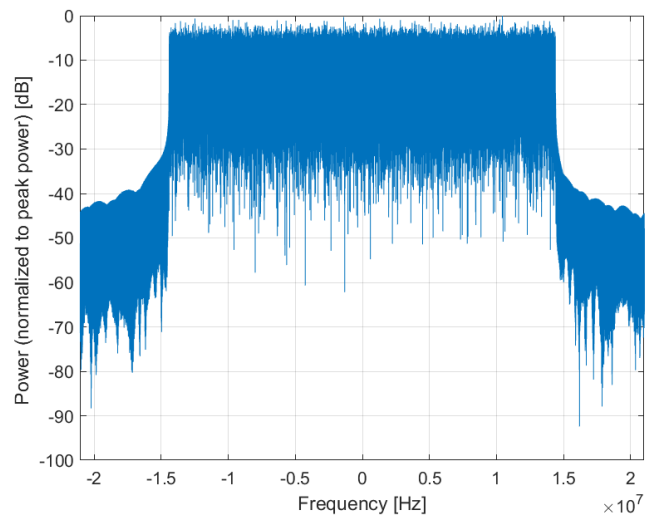
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

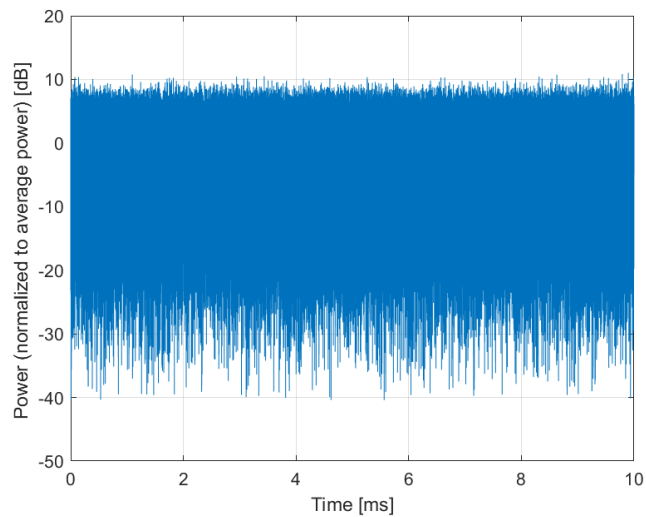
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10789-AAF

PAR: ¹ **8.37 dB**
MIF: ² **-23.29 dB**

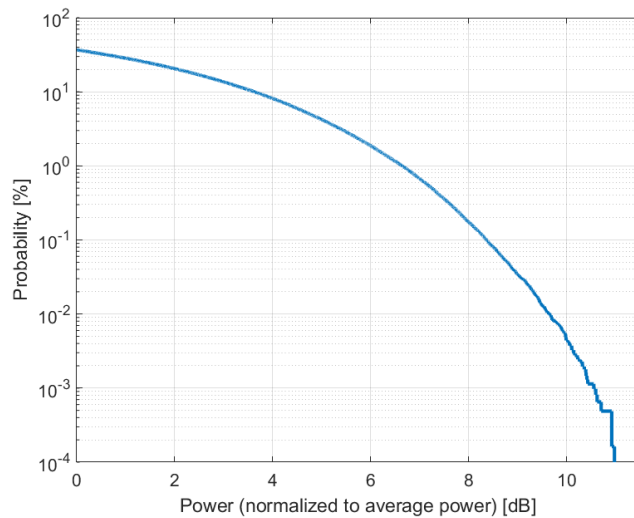
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 216
Slot Format Index: 1
Data Type: PN9

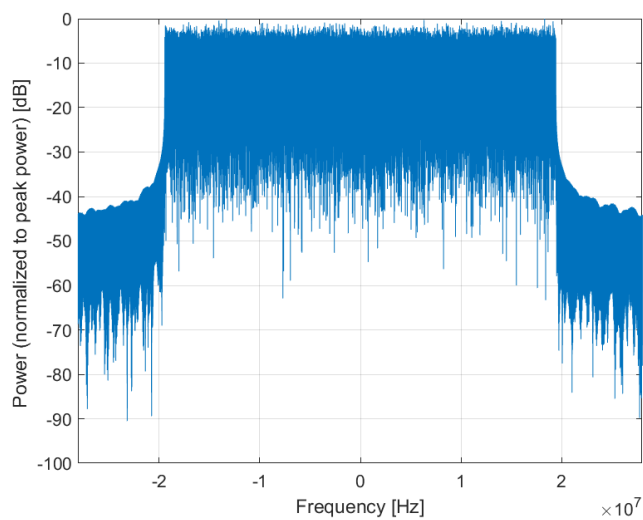
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

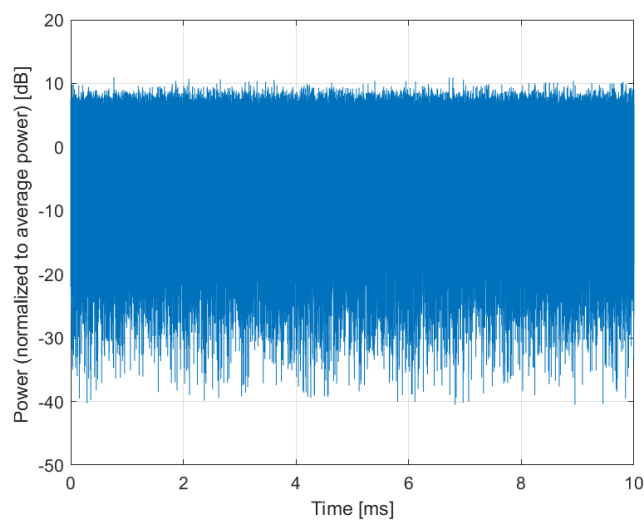
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10790-AAE

PAR: ¹ **8.39 dB**
MIF: ² **-23.84 dB**

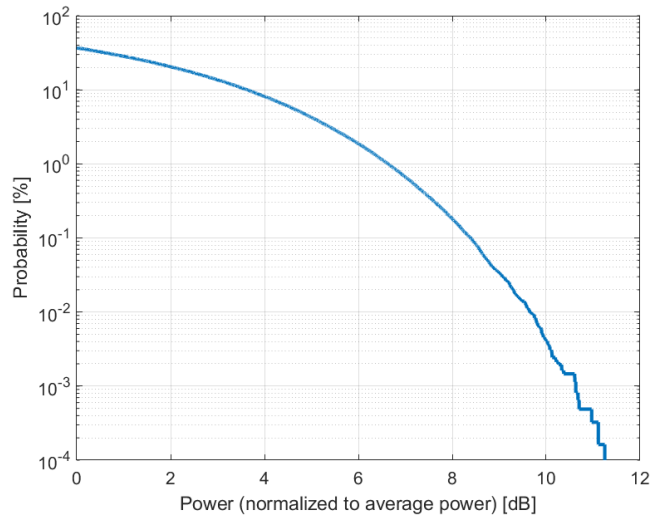
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 270
Slot Format Index: 1
Data Type: PN9

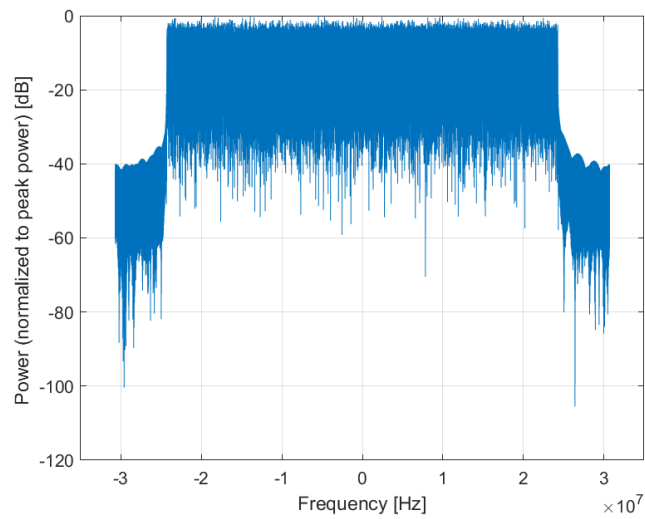
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

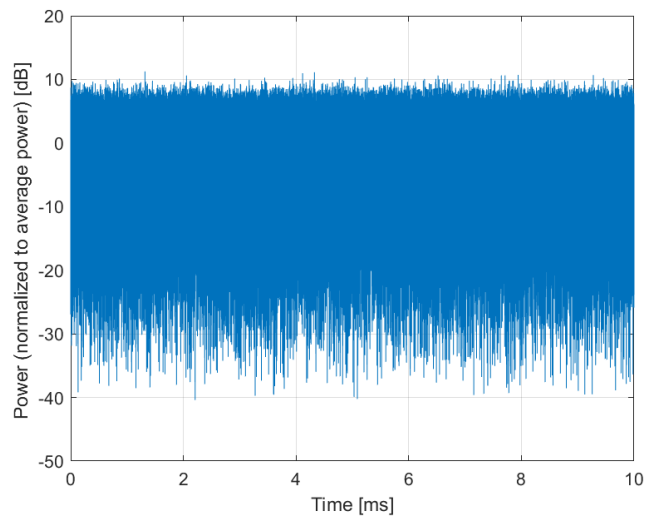
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10791-AAG

PAR: ¹ **7.83 dB**
MIF: ² **-14.39 dB**

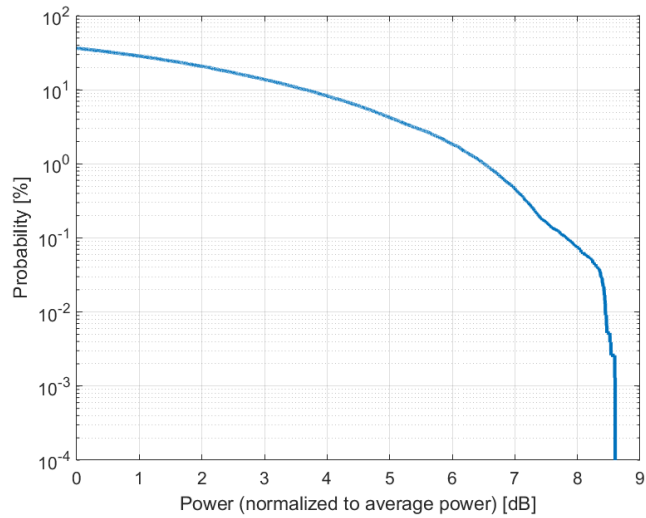
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

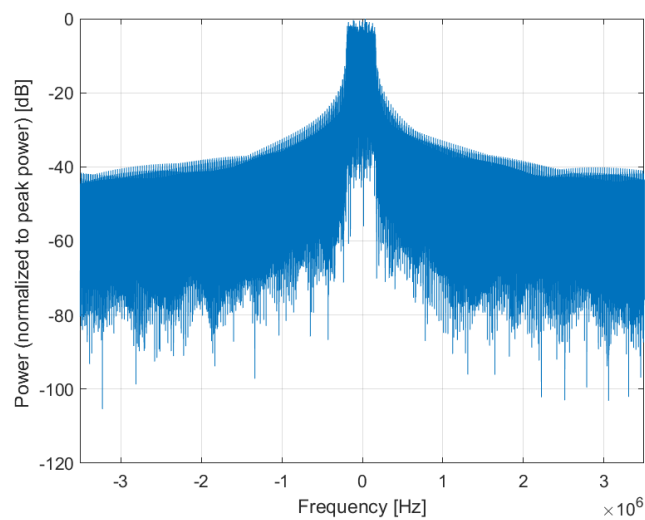
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

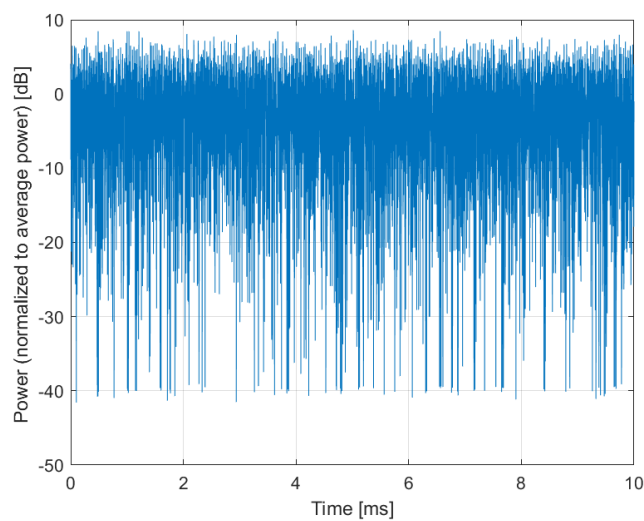
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10792-AAE

PAR: ¹ **7.92 dB**
MIF: ² **-14.47 dB**

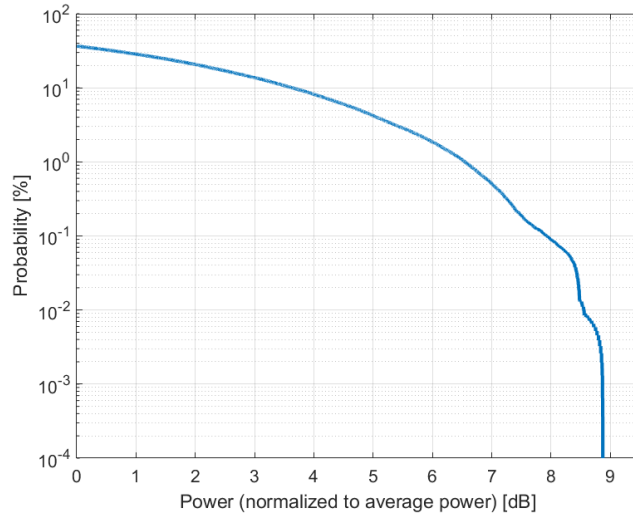
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

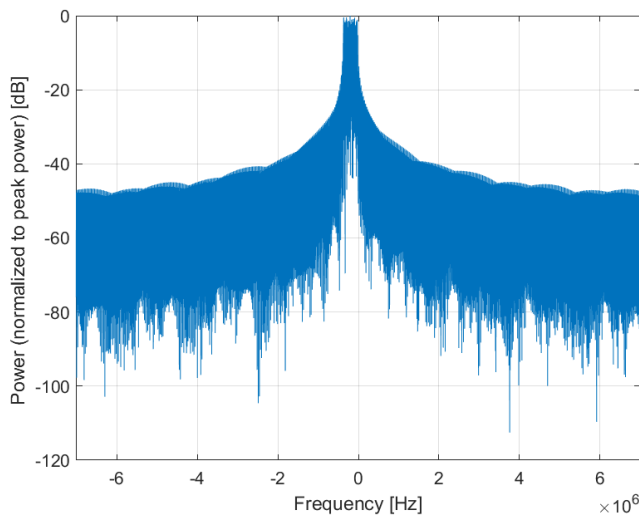
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

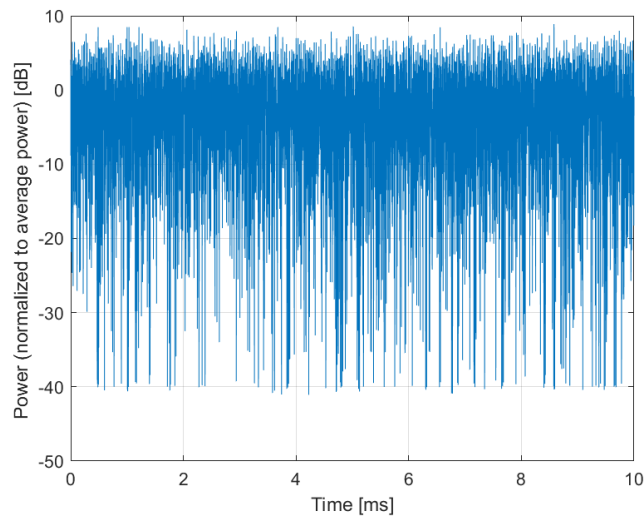
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10793-AAD

PAR: ¹ **7.95 dB**
MIF: ² **-14.33 dB**

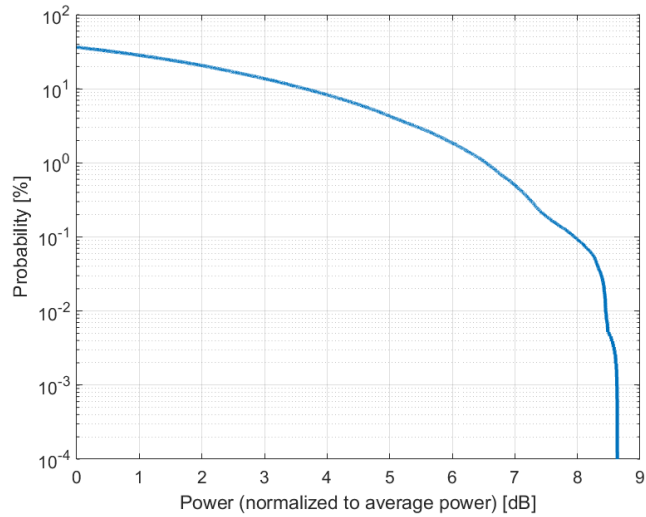
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

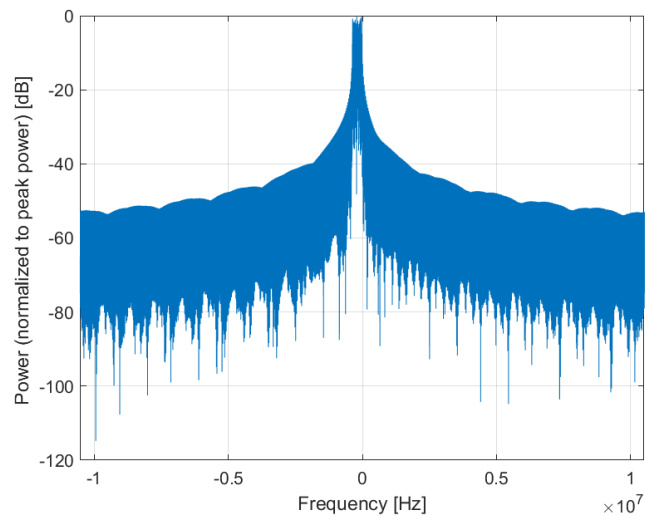
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

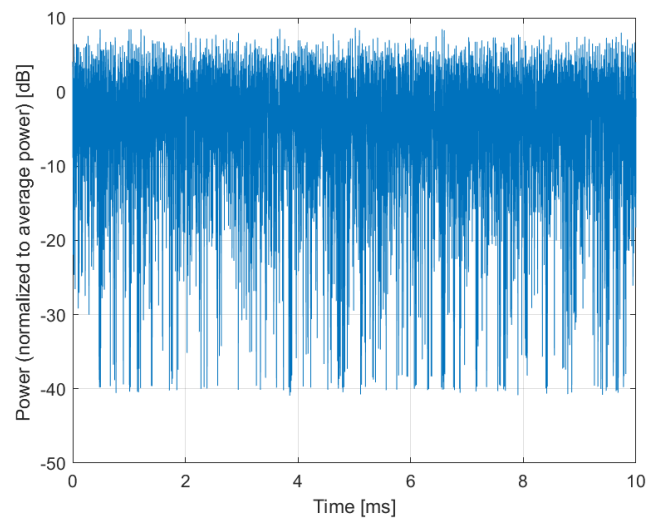
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10794-AAE

PAR: ¹ **7.82 dB**
MIF: ² **-14.46 dB**

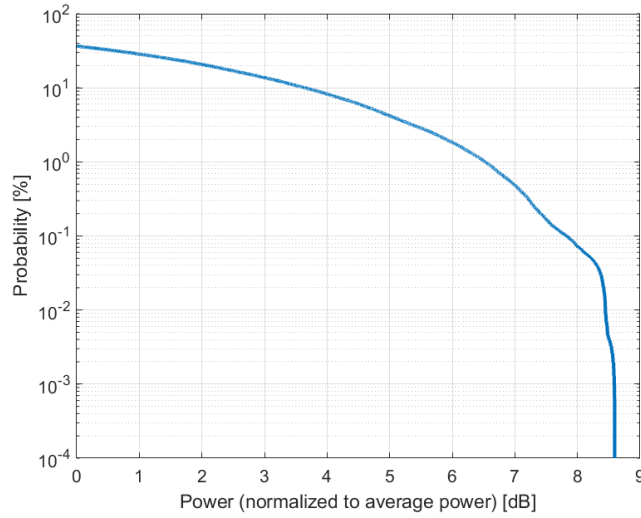
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

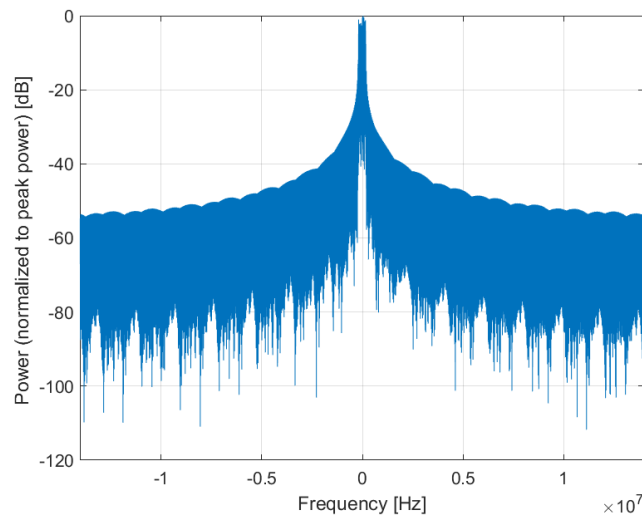
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

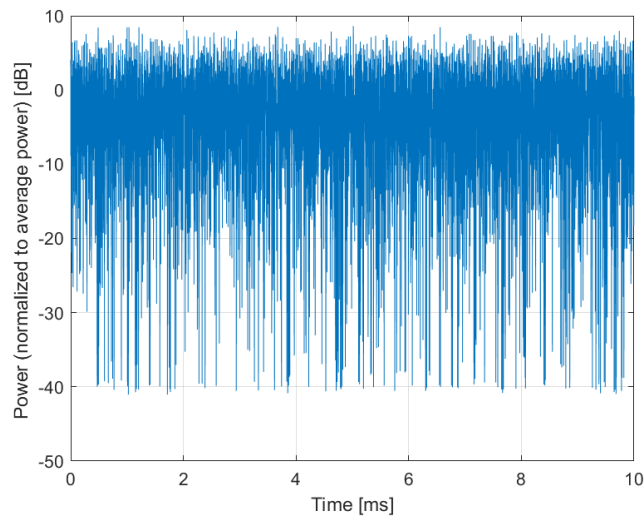
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10795-AAD

PAR: ¹ **7.84 dB**
MIF: ² **-14.35 dB**

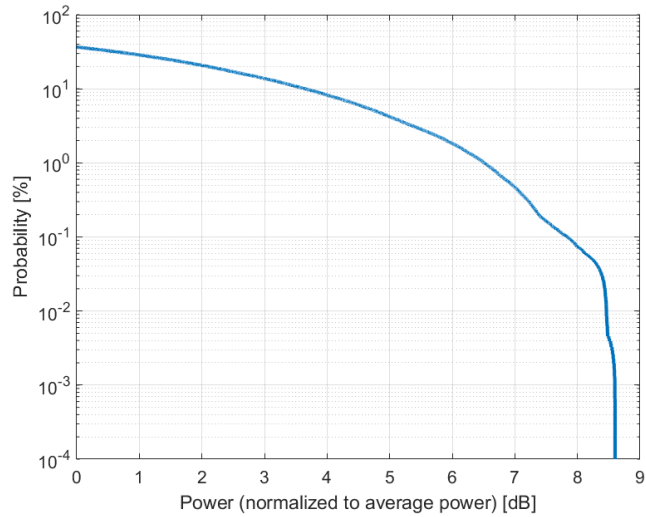
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

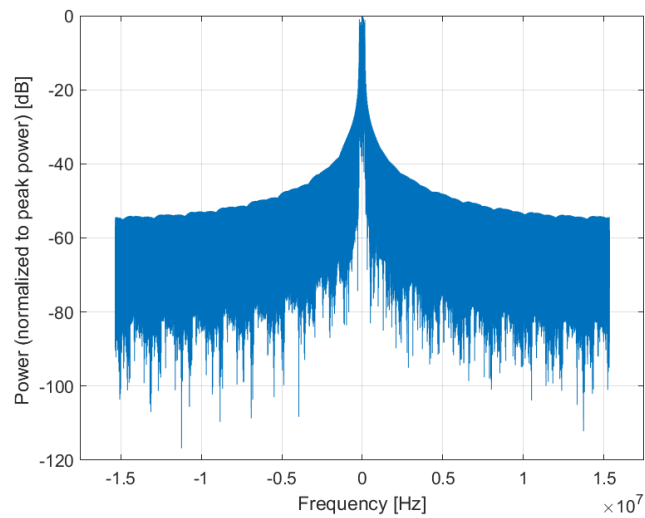
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

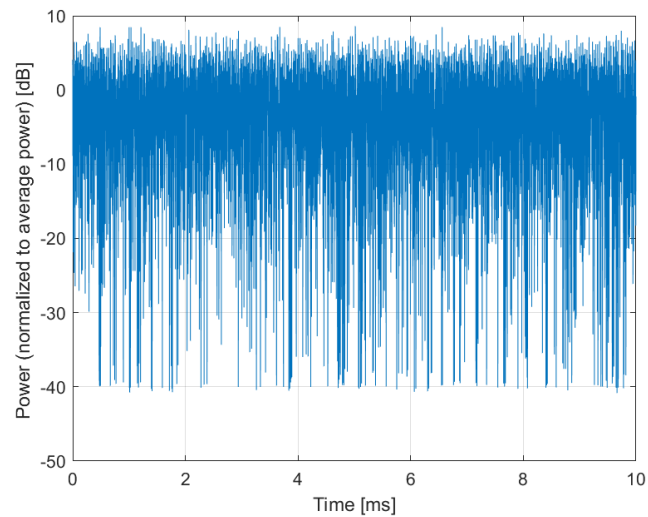
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10796-AAE

PAR: ¹ **7.82 dB**
MIF: ² **-14.32 dB**

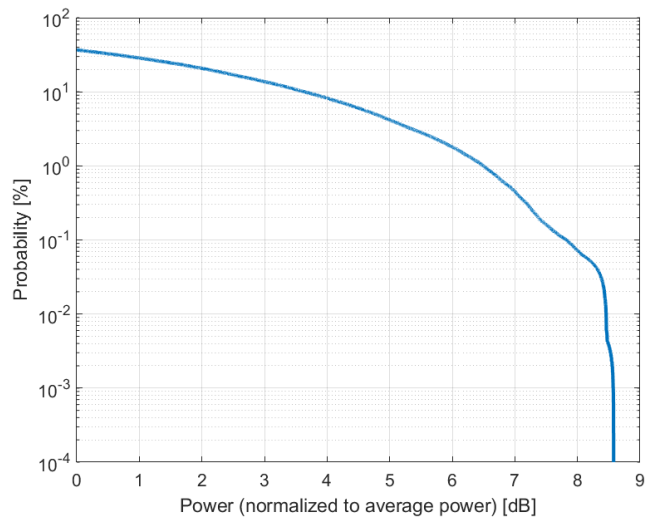
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

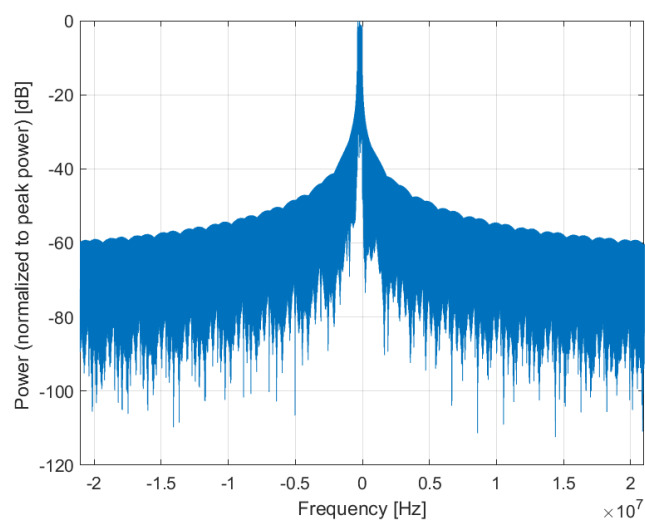
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

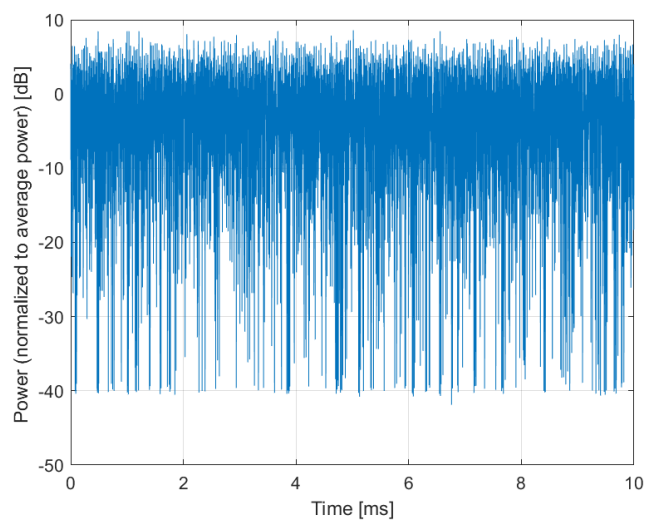
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10797-AAF

PAR: ¹ **8.01 dB**
MIF: ² **-14.32 dB**

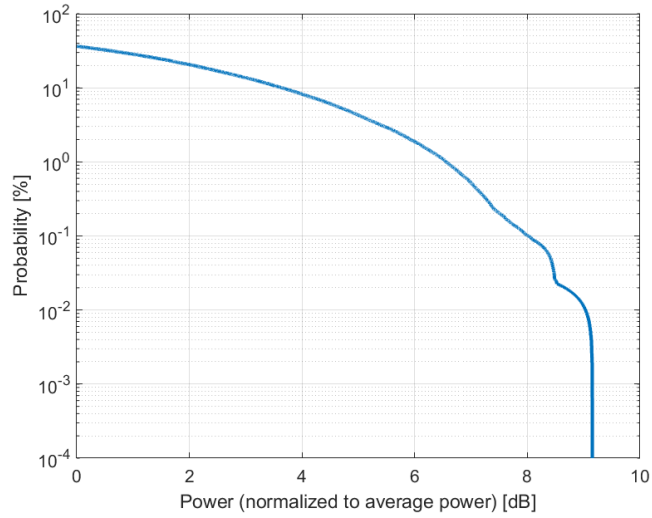
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

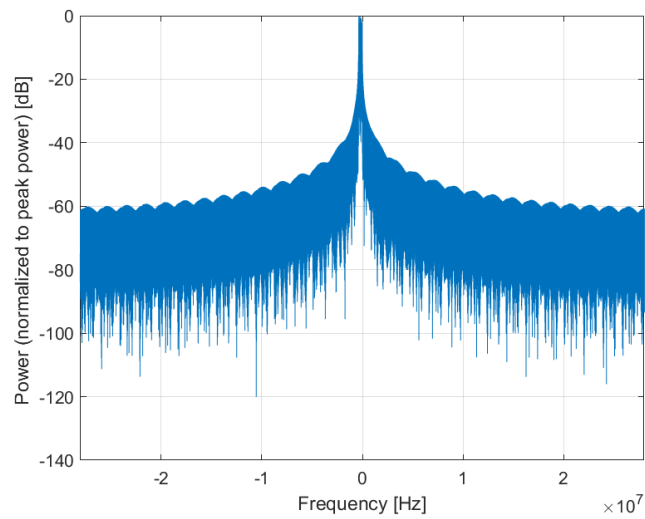
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

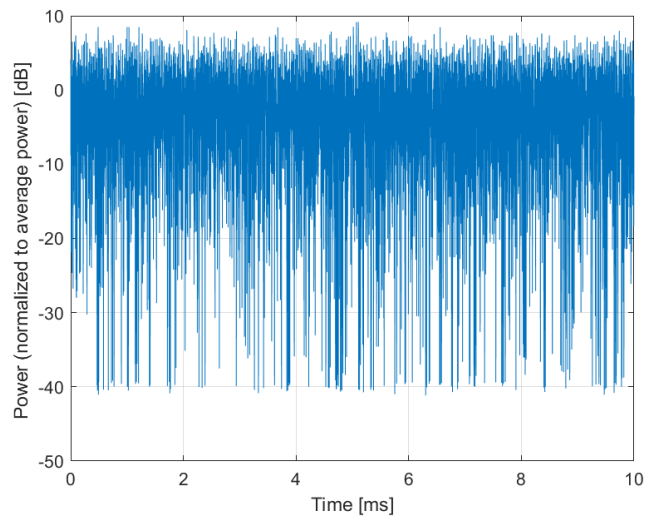
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10798-AAE

PAR: ¹ **7.89 dB**
MIF: ² **-14.55 dB**

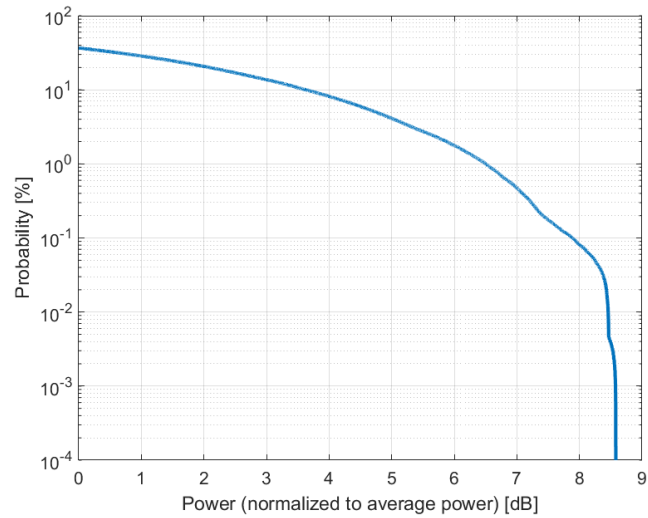
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

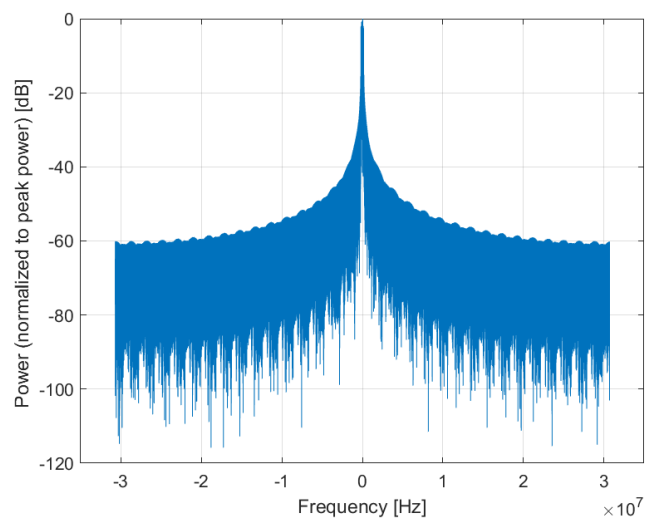
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

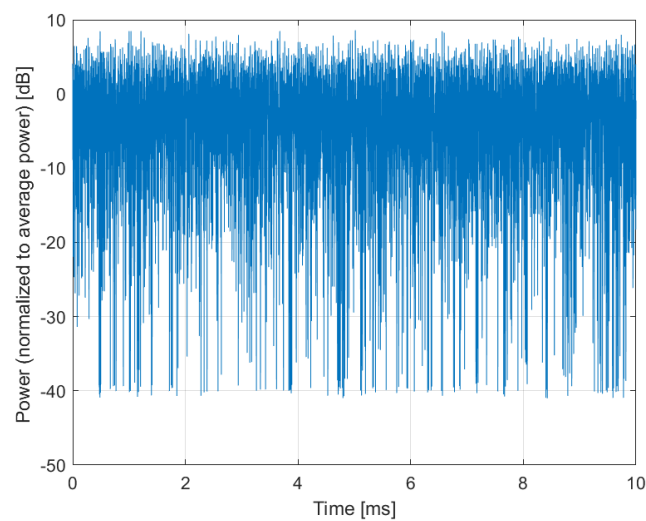
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10799-AAF

PAR: ¹ **7.93 dB**
MIF: ² **-14.45 dB**

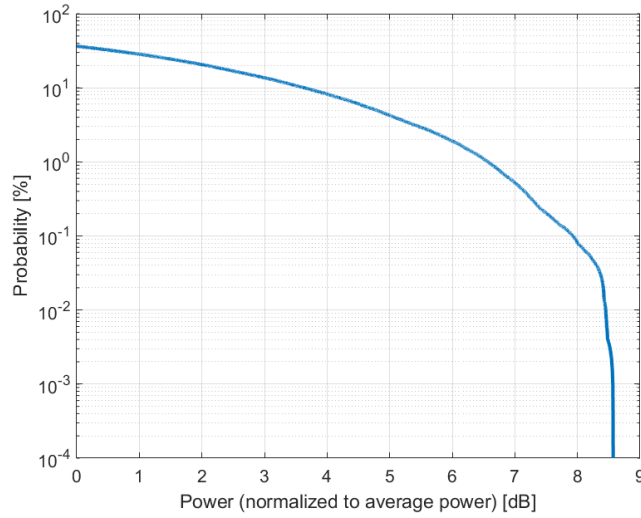
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

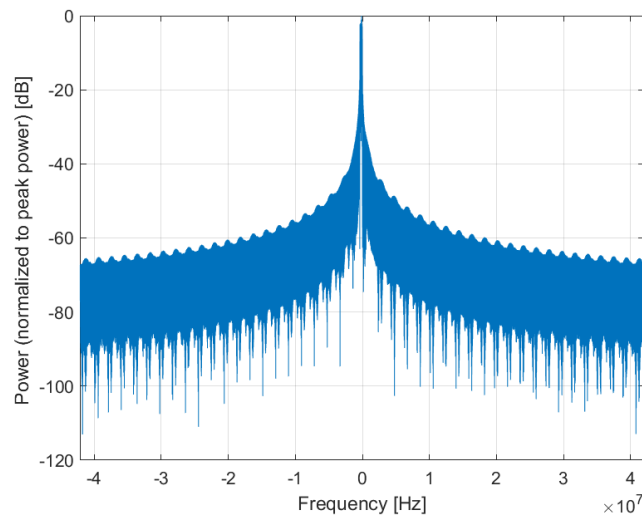
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

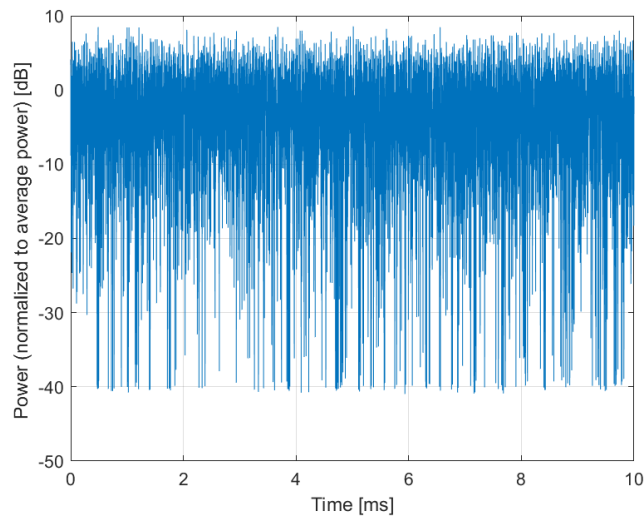
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10801-AAF

PAR: ¹ **7.89 dB**
MIF: ² **-14.47 dB**

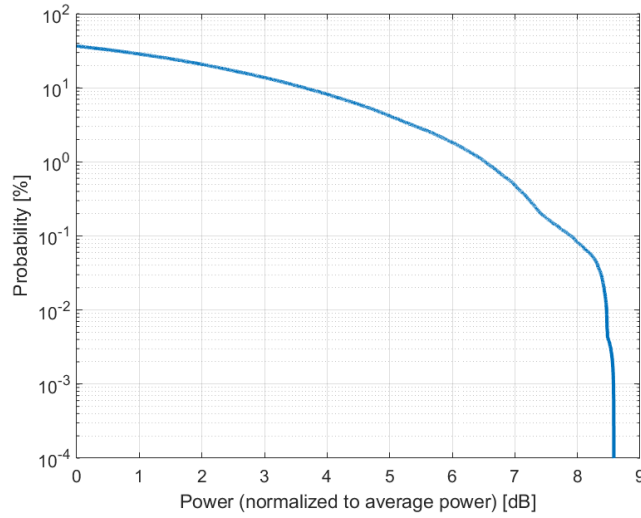
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

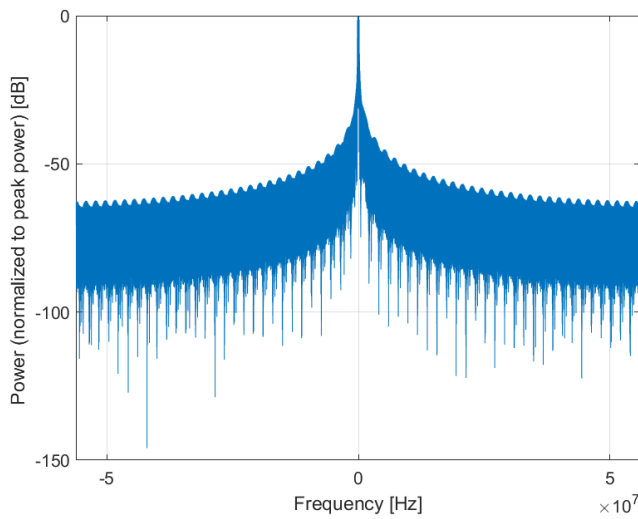
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

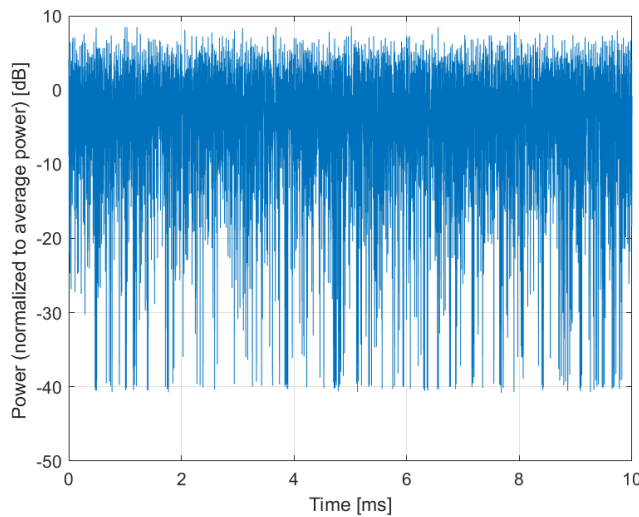
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10802-AAE

PAR: ¹ **7.87 dB**
MIF: ² **-14.43 dB**

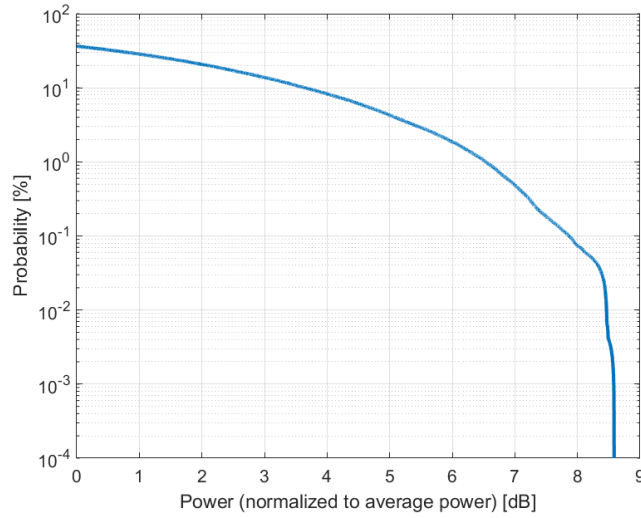
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

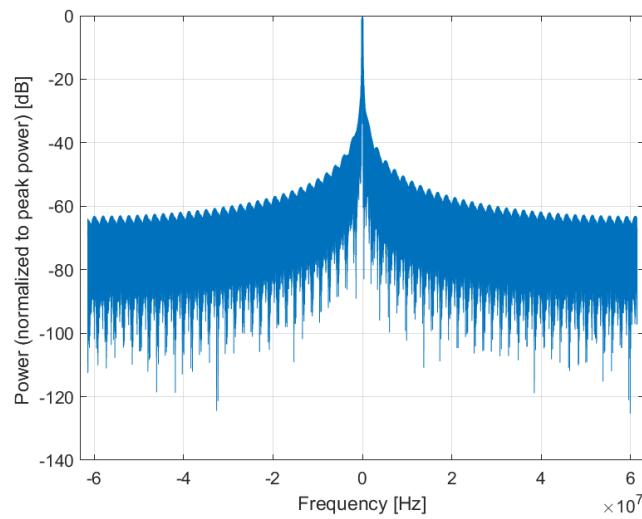
Bandwidth: 90.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

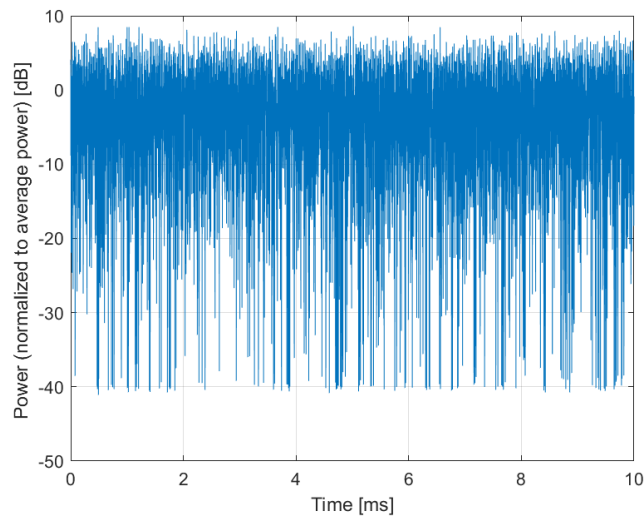
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10803-AAF

PAR: ¹ **7.93 dB**
MIF: ² **-14.38 dB**

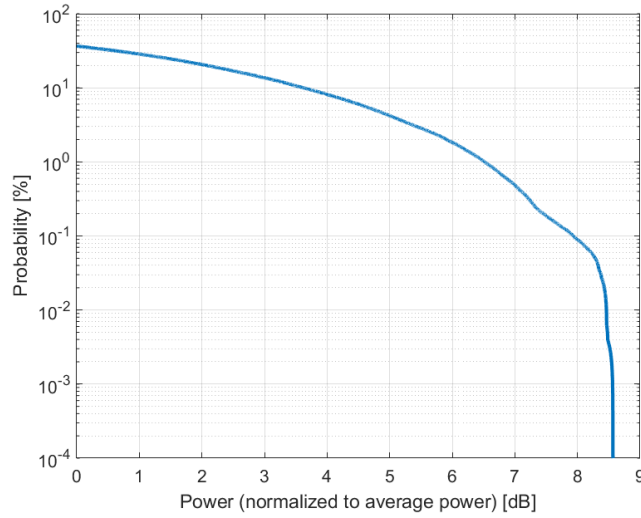
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

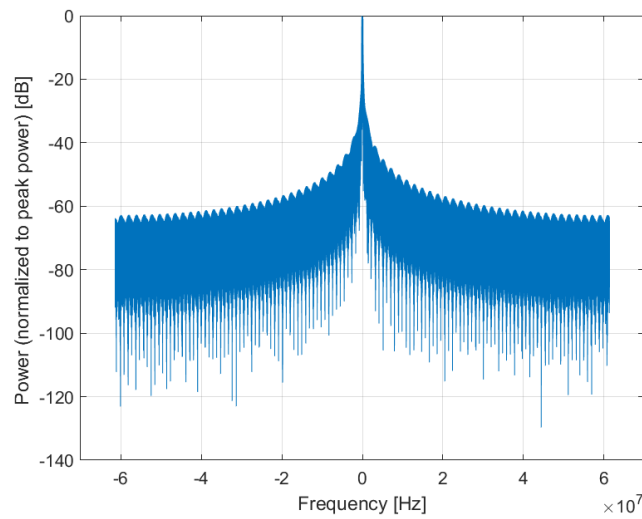
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

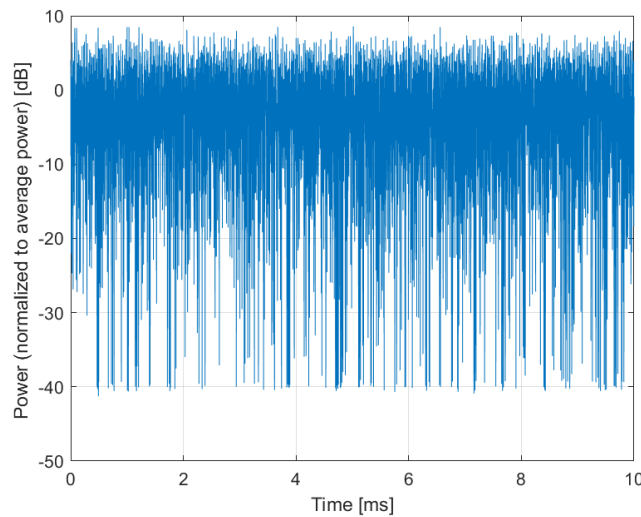
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10805-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-19.83 dB**

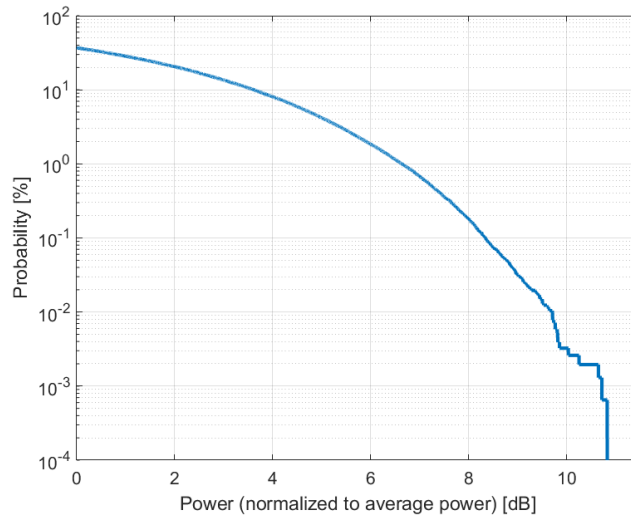
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 12
Slot Format Index: 1
Data Type: PN9

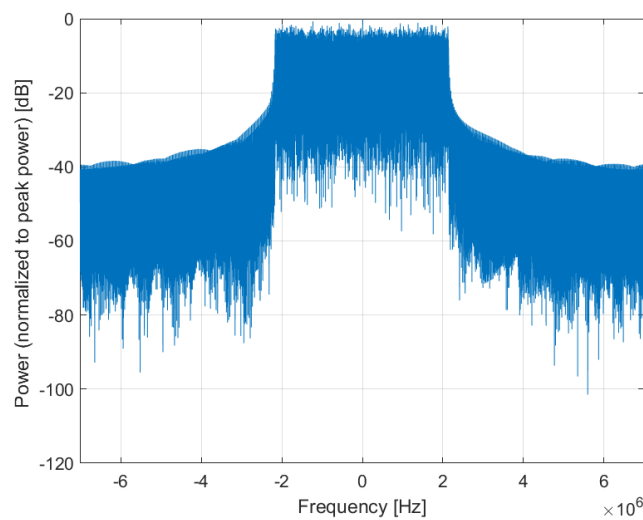
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

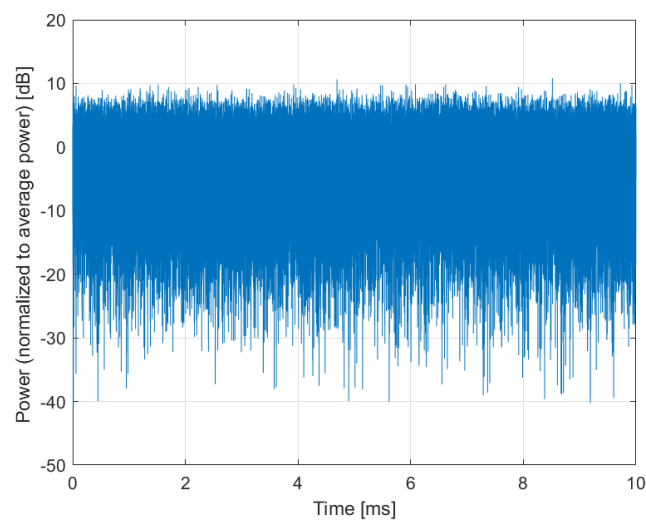
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



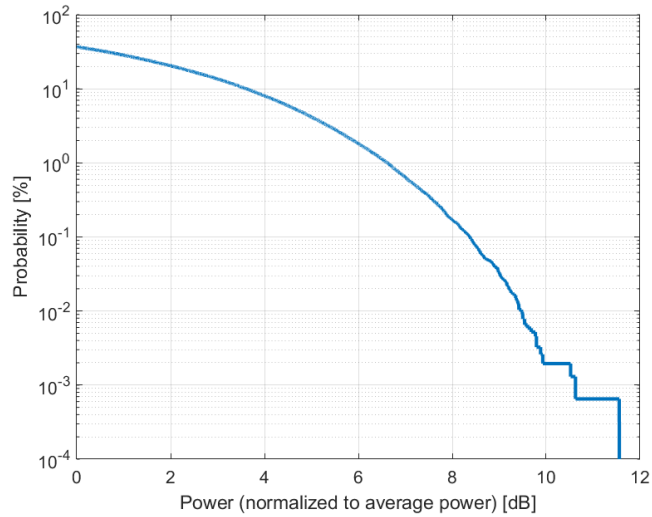
Time Domain

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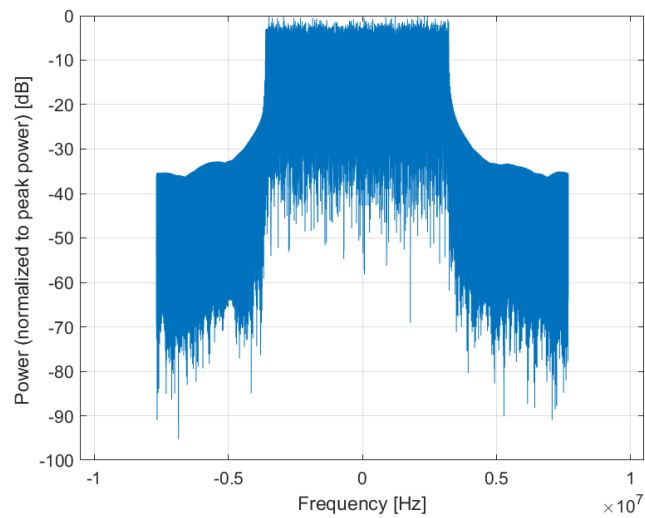
| | |
|-------------------------|--|
| Name: | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) |
| Group: | 5G NR FR1 TDD |
| UID: | 10806-AAD |
| PAR: ¹ | 8.37 dB |
| MIF: ² | -20.22 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Multiplexing Scheme: CP-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 19 Slot Format Index: 1 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

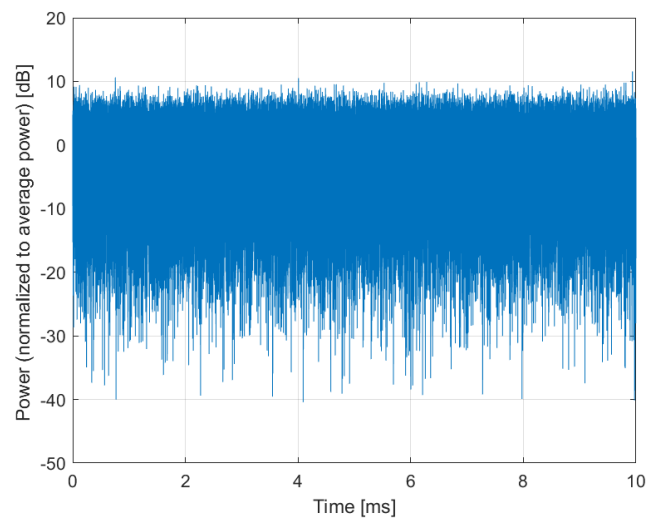
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10809-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-21.62 dB**

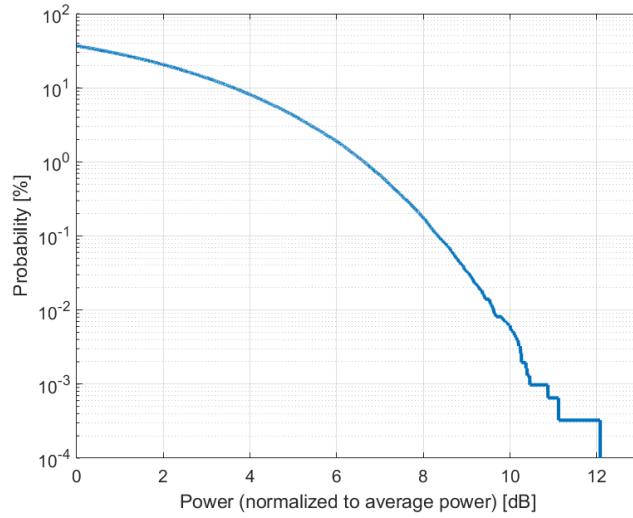
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 39
Slot Format Index: 1
Data Type: PN9

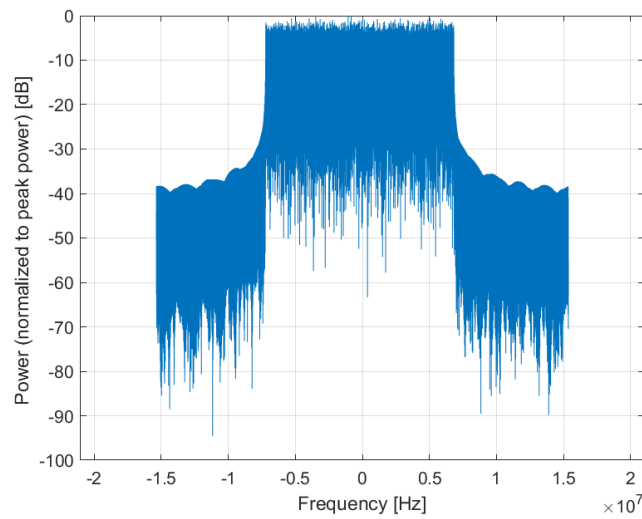
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

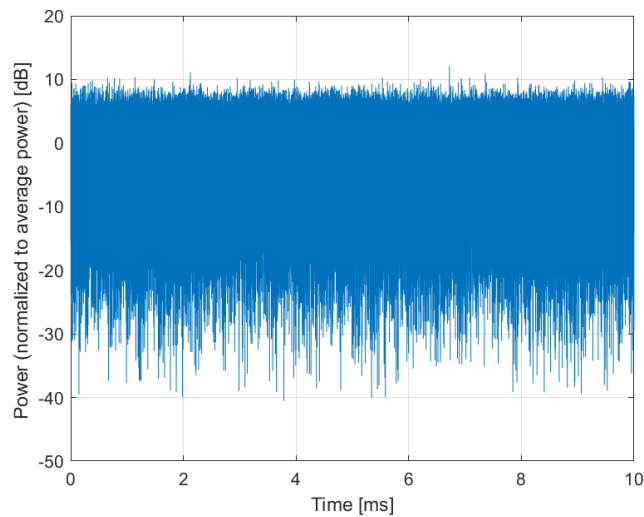
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10810-AAF

PAR: ¹ **8.34 dB**
MIF: ² **-22.06 dB**

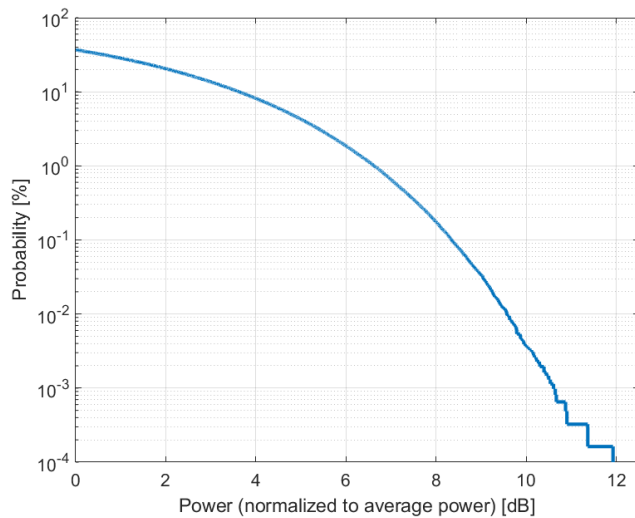
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 53
Slot Format Index: 1
Data Type: PN9

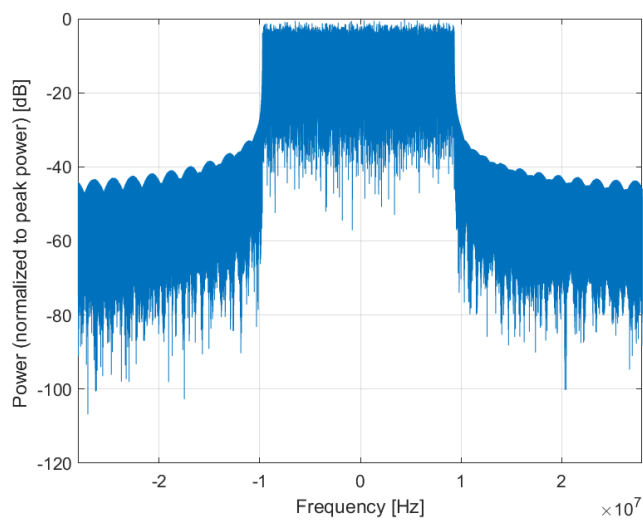
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

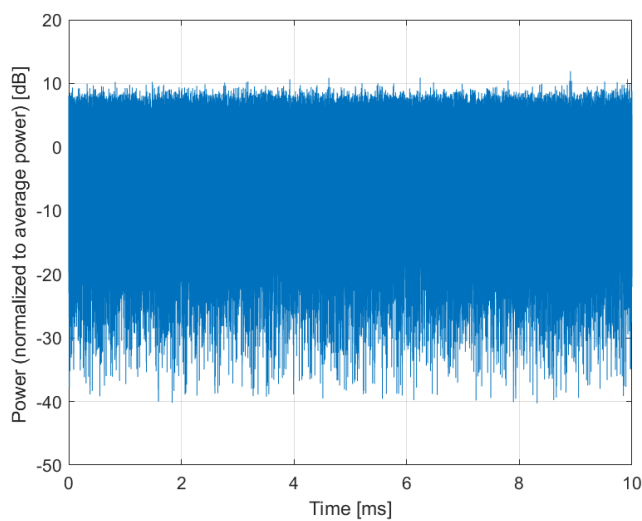
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10812-AAF

PAR: ¹ **8.35 dB**
MIF: ² **-24.16 dB**

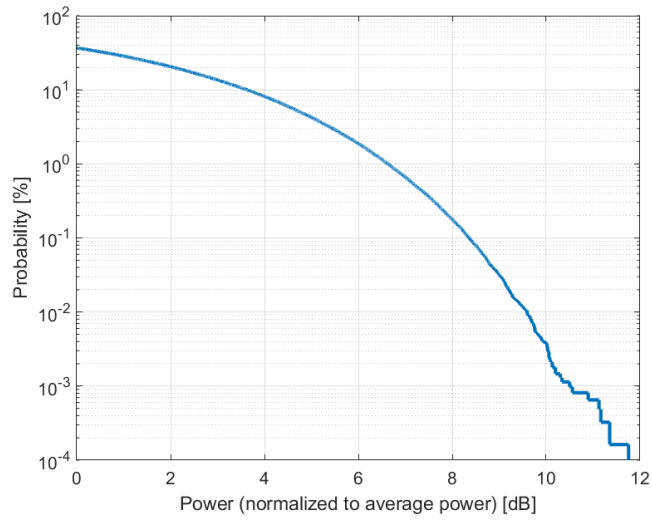
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 81
Slot Format Index: 1
Data Type: PN9

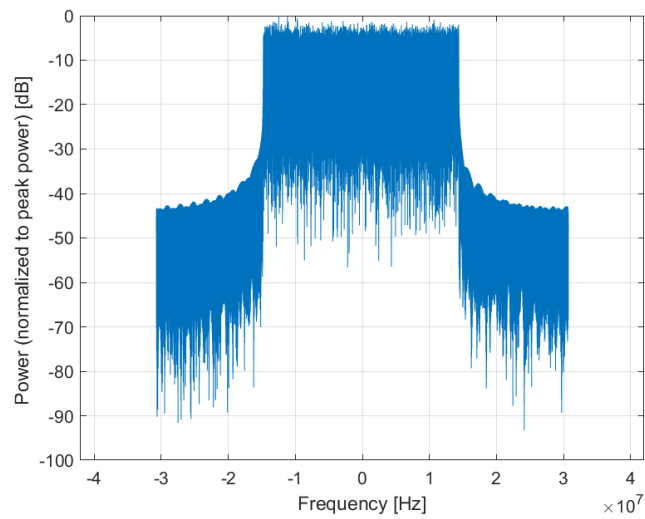
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

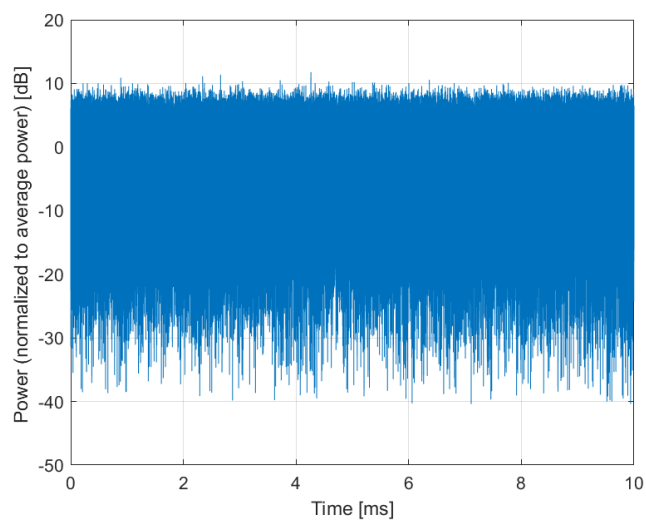
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10817-AAG

PAR: ¹ **8.35 dB**
MIF: ² **-19.61 dB**

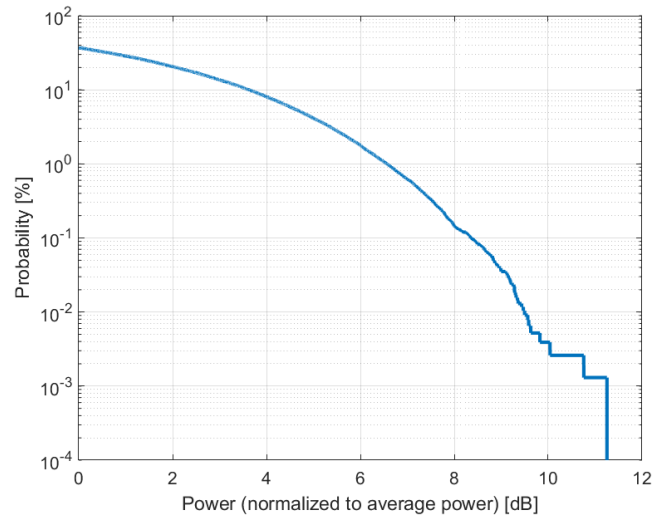
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 11
Slot Format Index: 1
Data Type: PN9

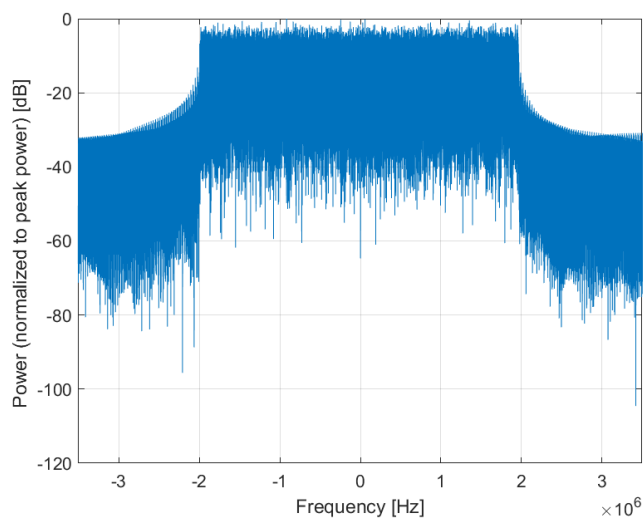
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

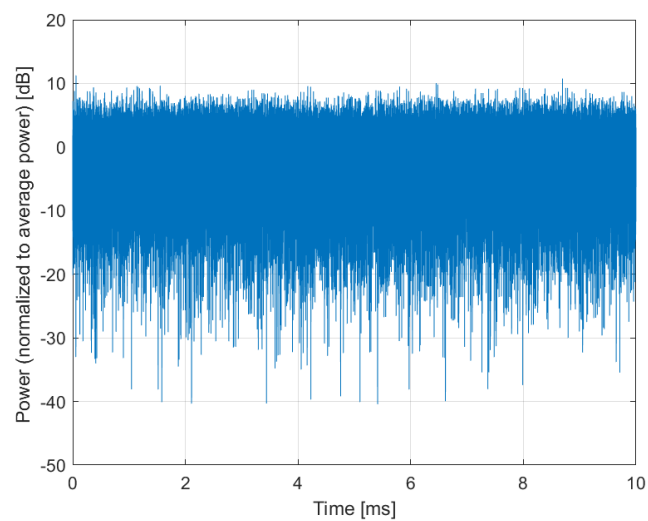
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10818-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-21.28 dB**

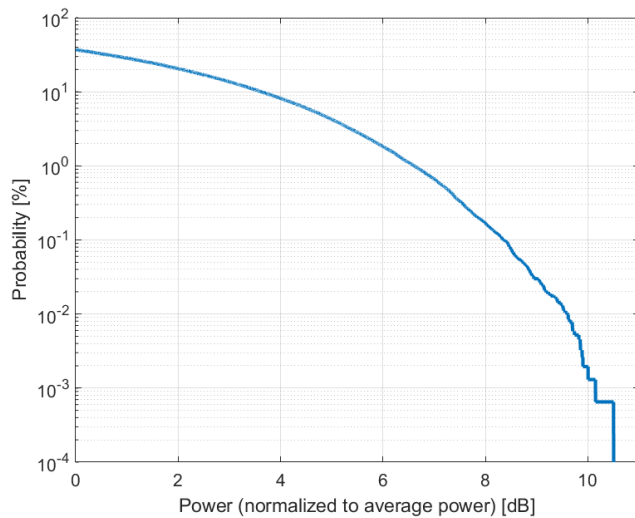
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 24
Slot Format Index: 1
Data Type: PN9

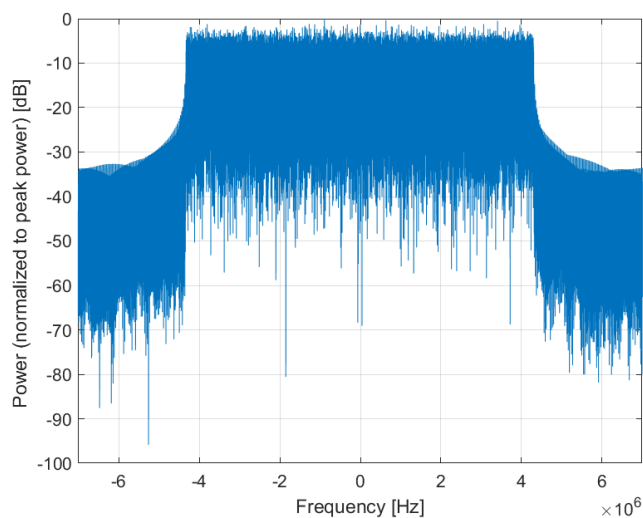
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

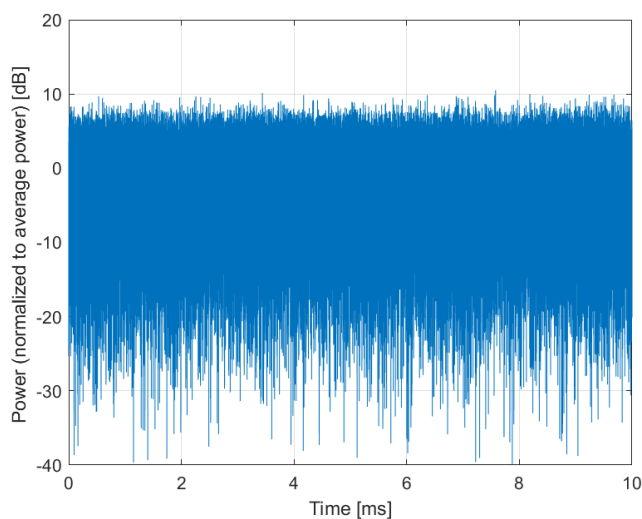
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10819-AAD

PAR: ¹ **8.33 dB**
MIF: ² **-22.12 dB**

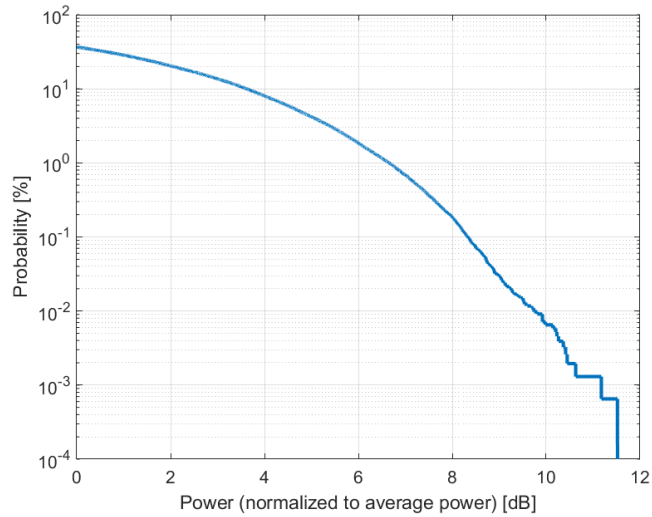
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 38
Slot Format Index: 1
Data Type: PN9

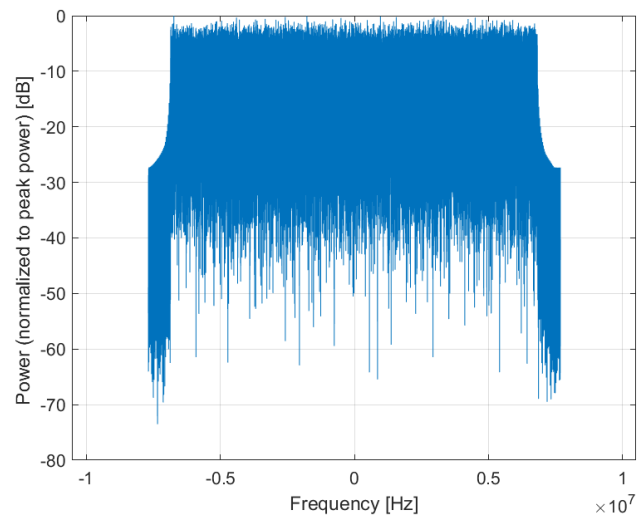
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

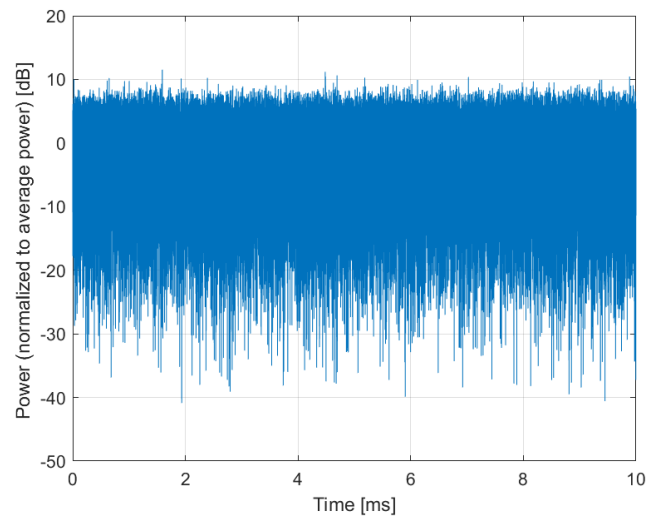
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10820-AAE

PAR: ¹ **8.30 dB**
MIF: ² **-22.76 dB**

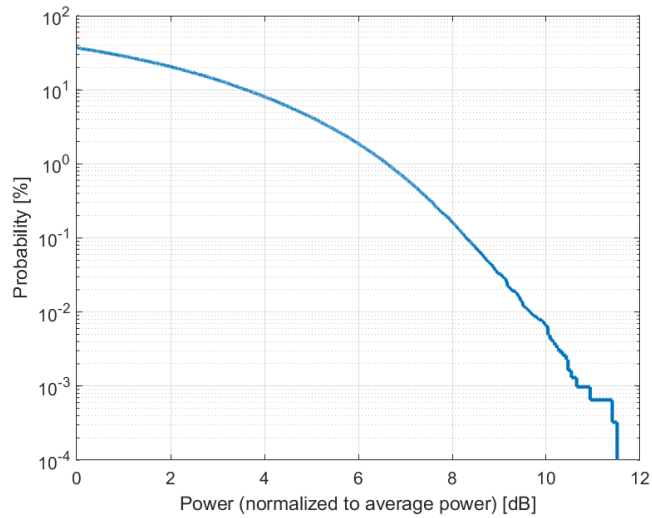
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 51
Slot Format Index: 1
Data Type: PN9

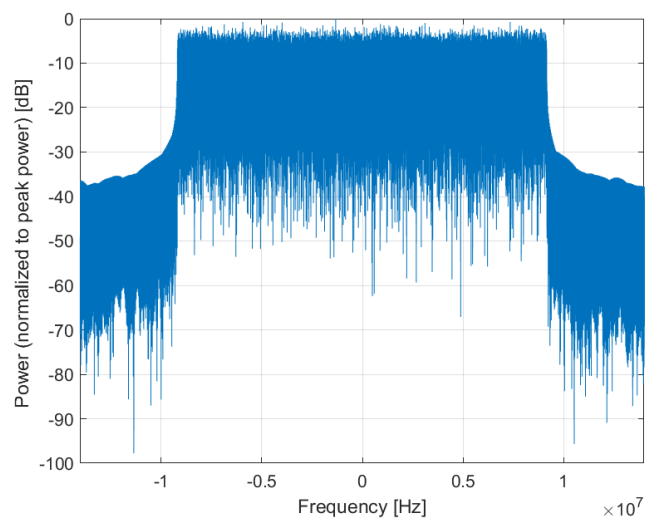
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

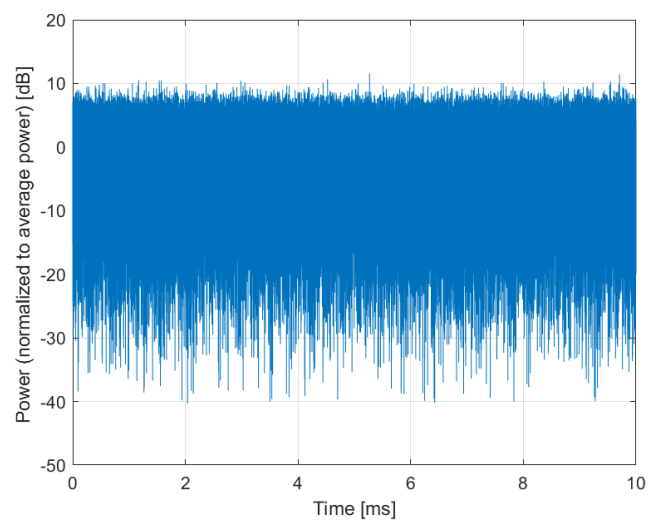
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
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Name: **5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10821-AAD

PAR: ¹ **8.41 dB**
MIF: ² **-22.93 dB**

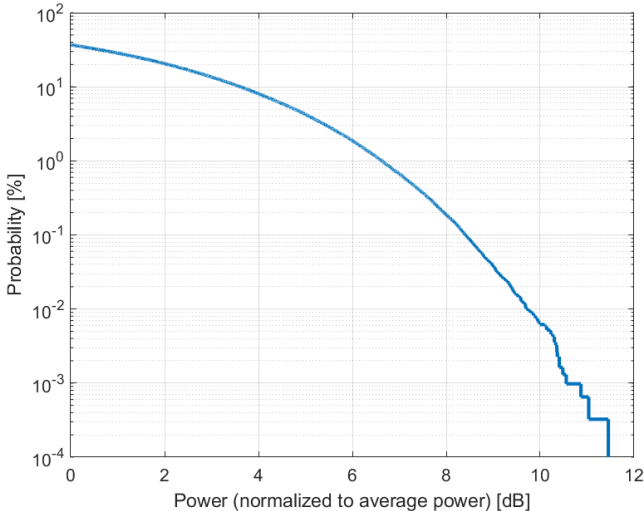
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 65
Slot Format Index: 1
Data Type: PN9

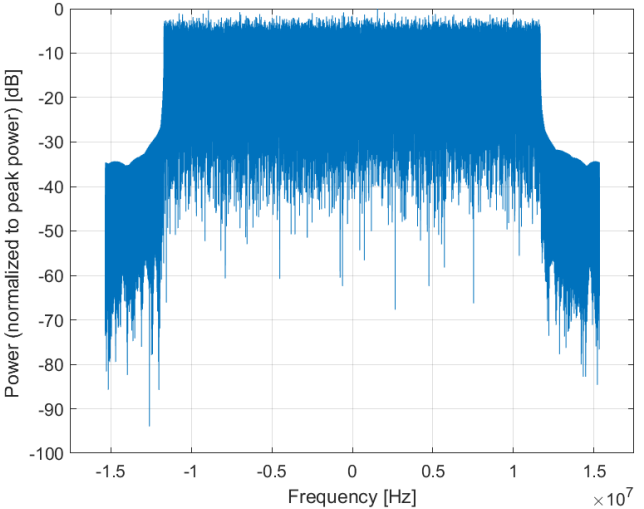
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

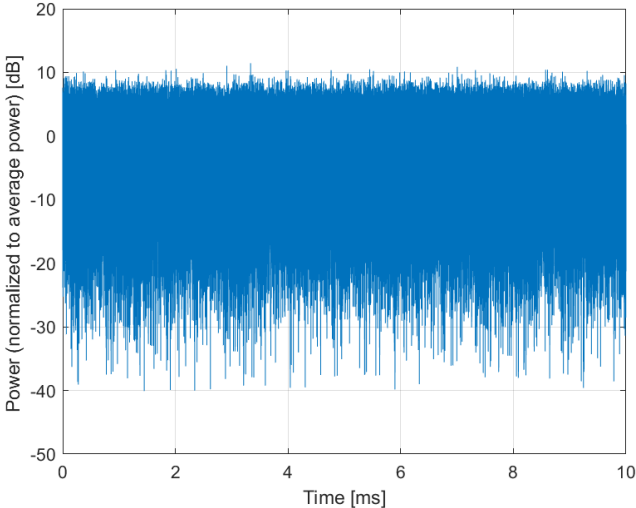
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Name: **5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10822-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-23.54 dB**

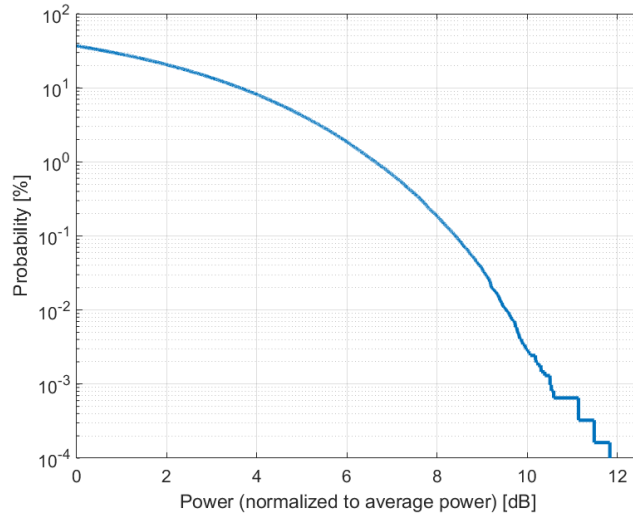
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 78
Slot Format Index: 1
Data Type: PN9

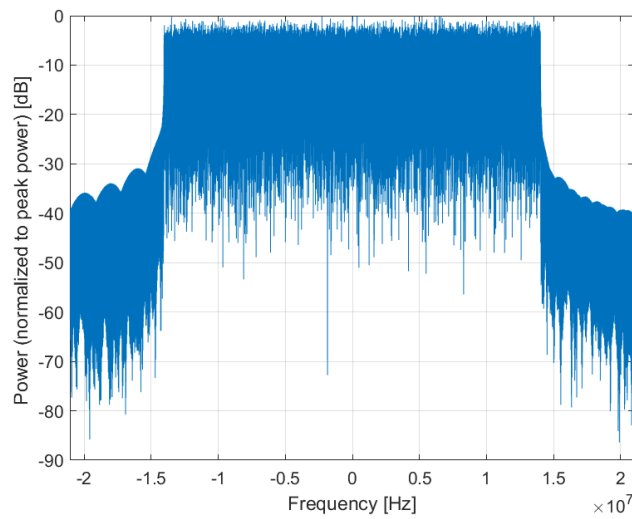
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

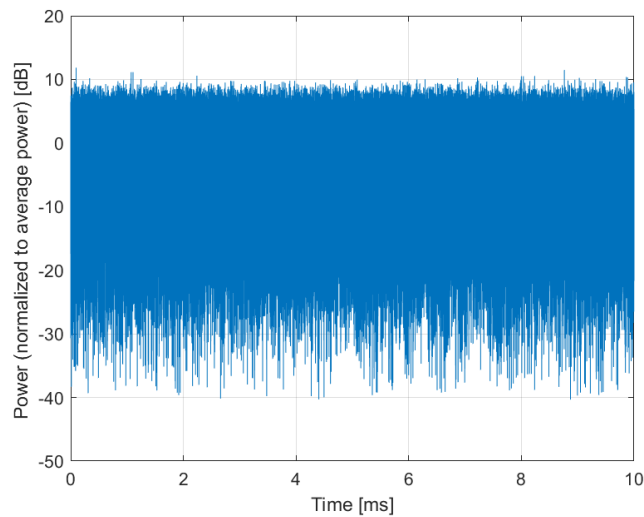
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10823-AAF

PAR: ¹ **8.36 dB**
MIF: ² **-24.51 dB**

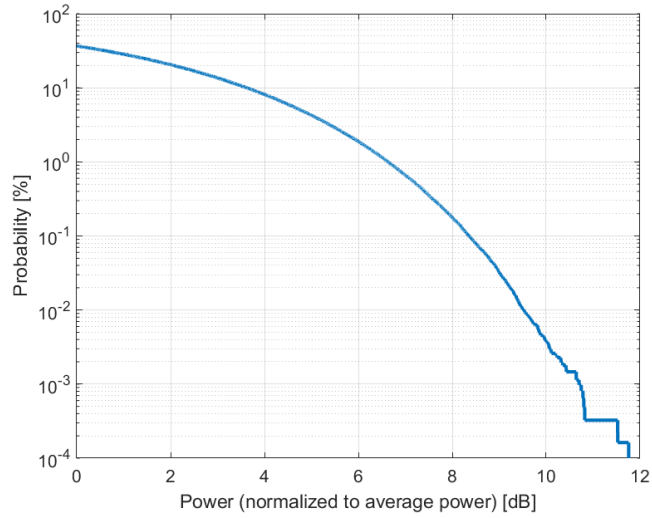
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 106
Slot Format Index: 1
Data Type: PN9

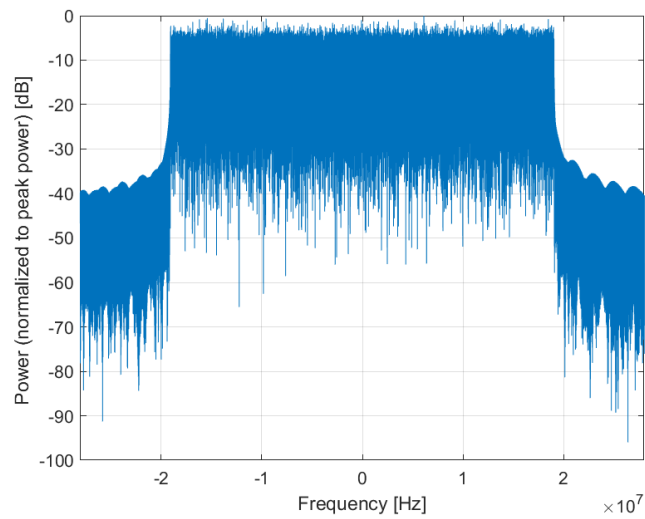
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

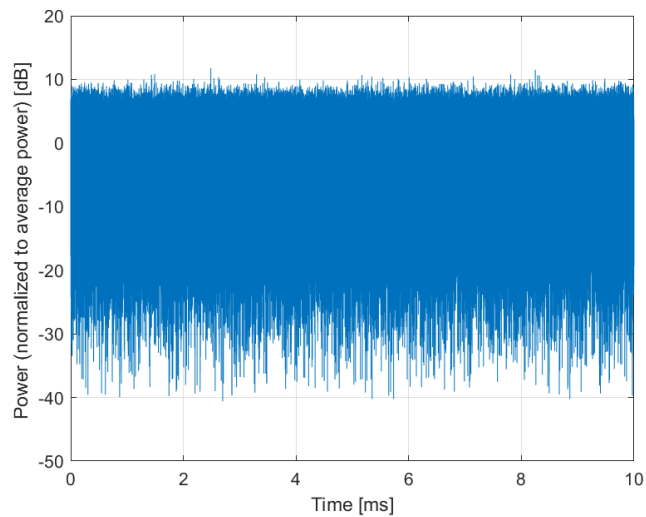
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10824-AAE

PAR: ¹ **8.39 dB**
MIF: ² **-24.80 dB**

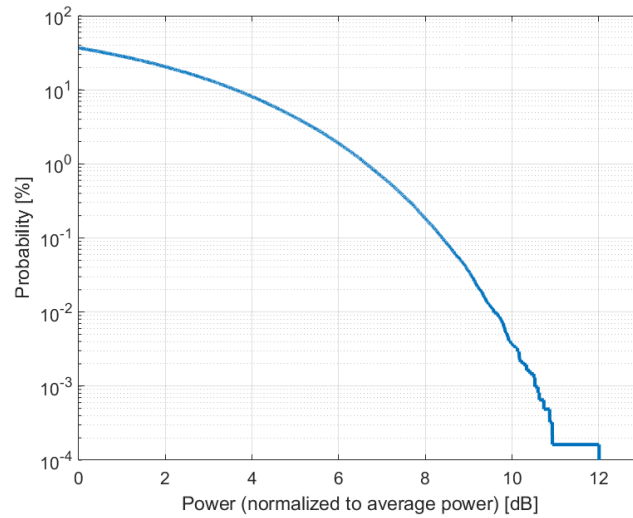
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 133
Slot Format Index: 1
Data Type: PN9

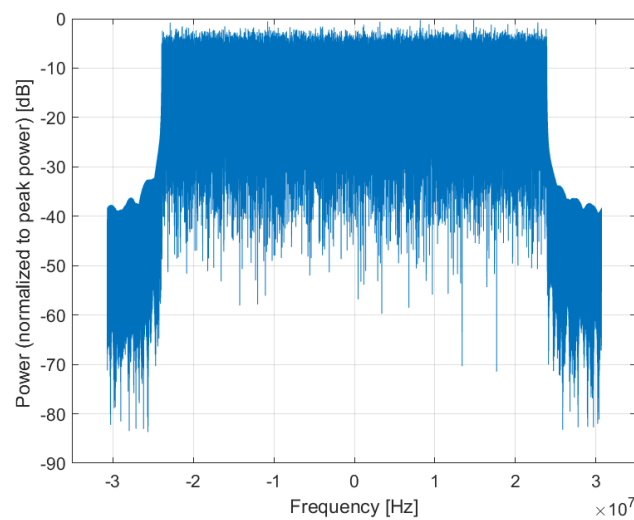
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

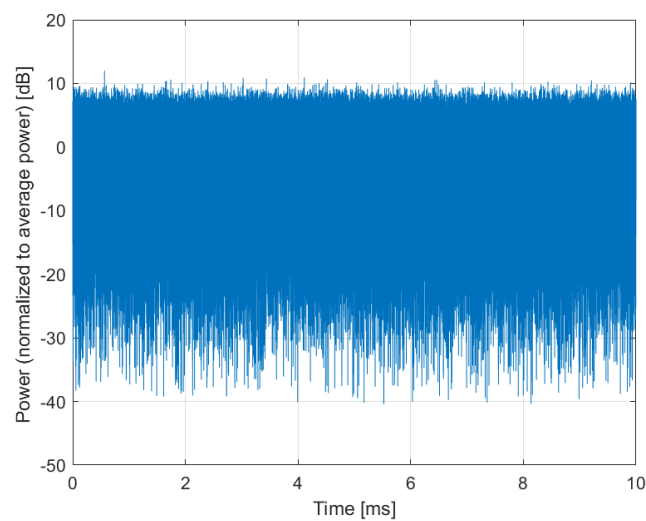
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10825-AAF

PAR: ¹ **8.41 dB**
MIF: ² **-25.06 dB**

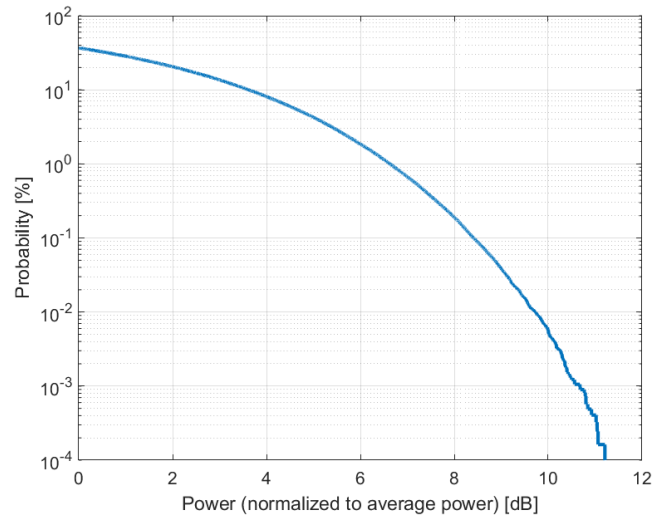
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 162
Slot Format Index: 1
Data Type: PN9

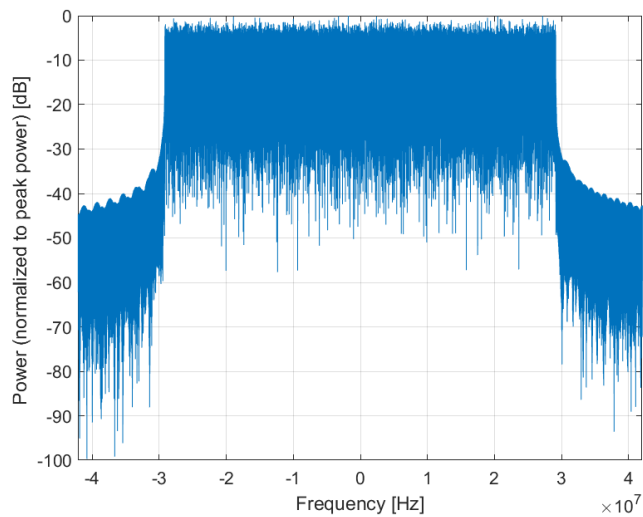
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

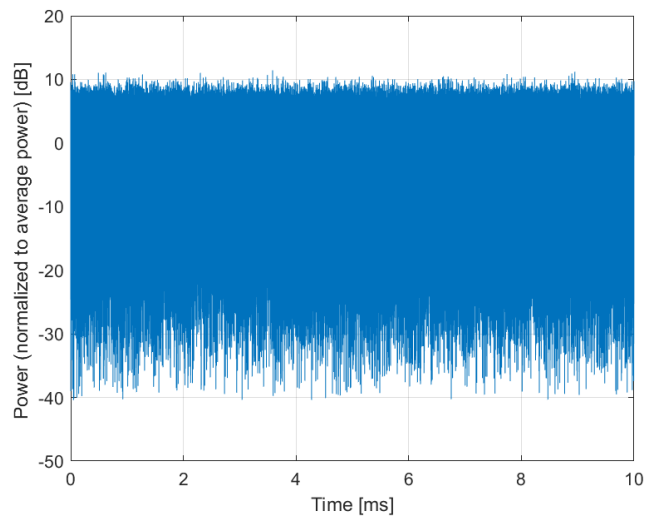
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10827-AAF

PAR: ¹ **8.42 dB**
MIF: ² **-25.87 dB**

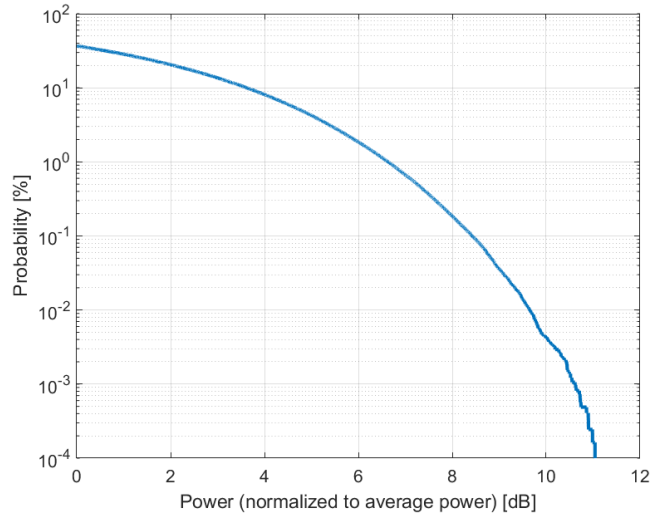
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 217
Slot Format Index: 1
Data Type: PN9

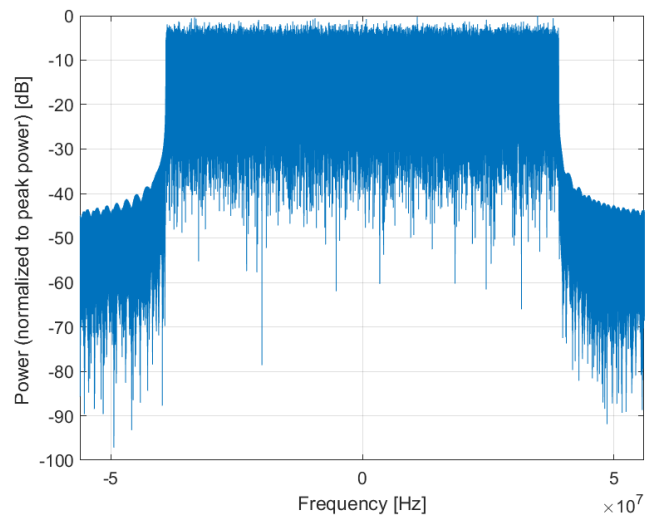
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

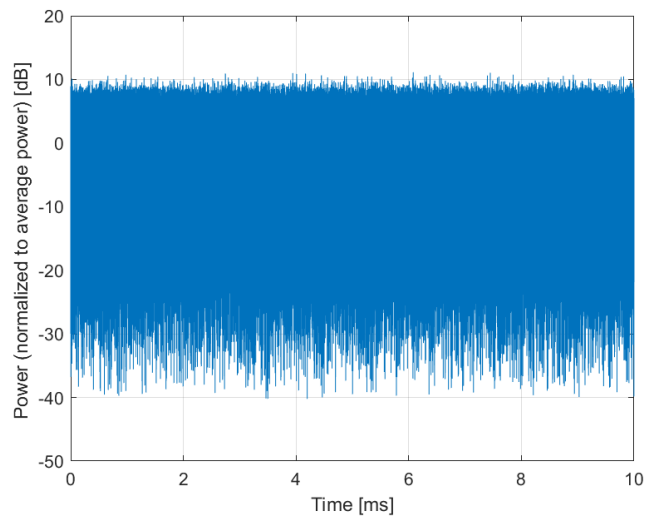
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10828-AAE

PAR: ¹ **8.43 dB**
MIF: ² **-26.53 dB**

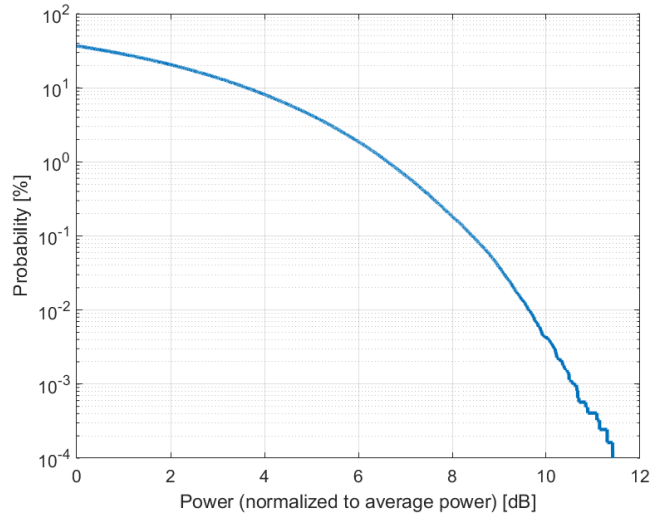
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 245
Slot Format Index: 1
Data Type: PN9

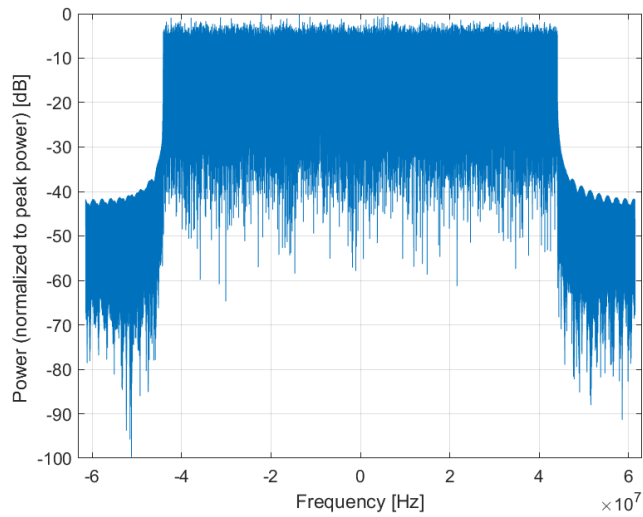
Bandwidth: 90.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

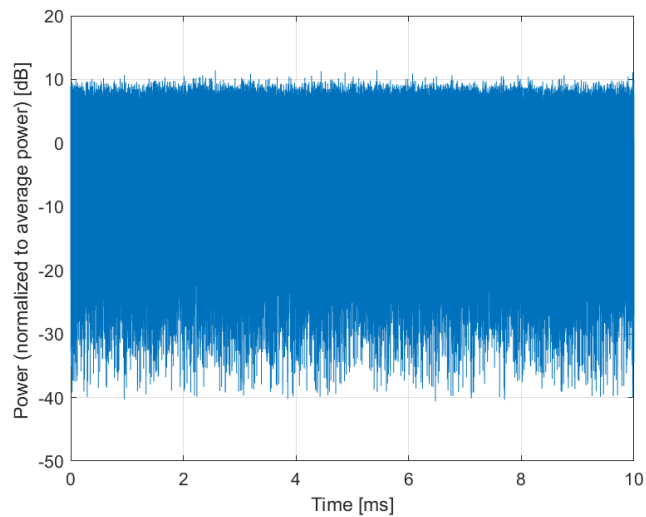
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10829-AAF

PAR: ¹ **8.40 dB**
MIF: ² **-26.60 dB**

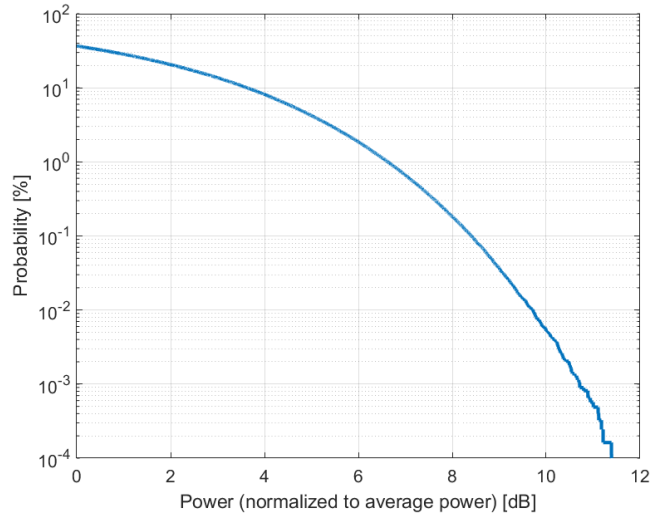
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 273
Slot Format Index: 1
Data Type: PN9

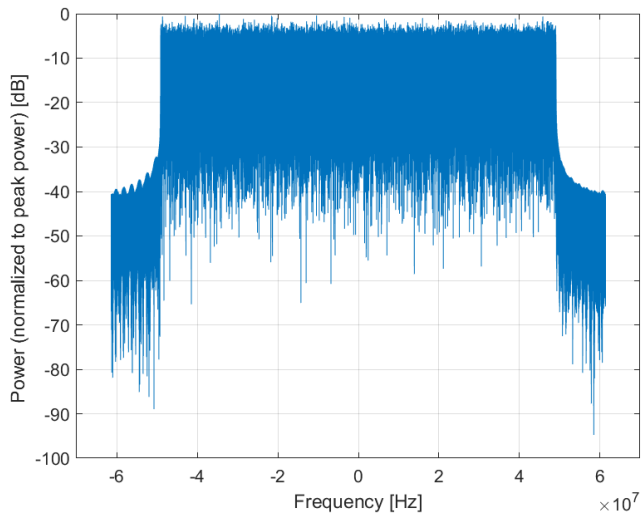
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

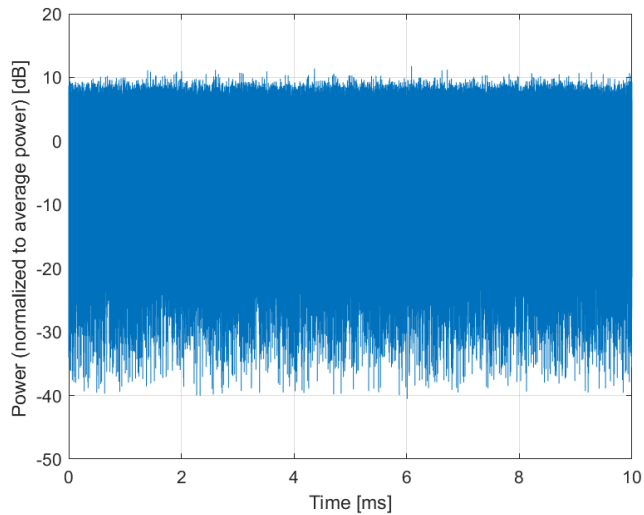
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10830-AAE

PAR: ¹ **7.63 dB**
MIF: ² **-16.74 dB**

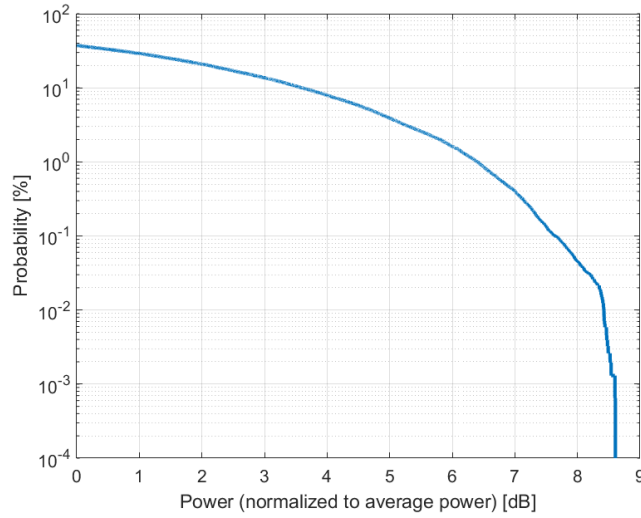
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

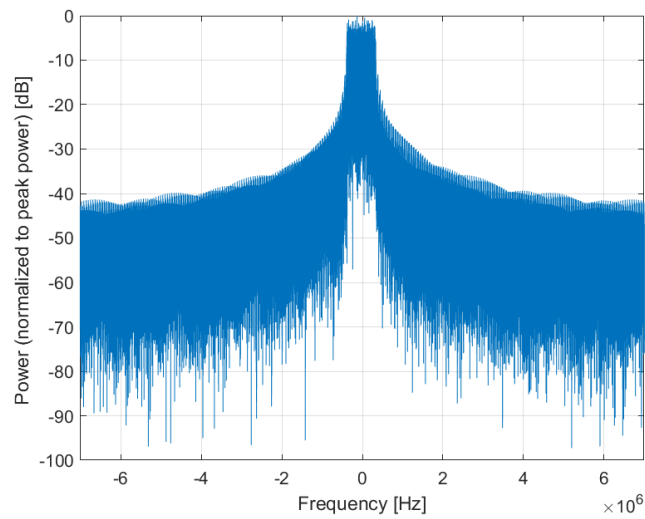
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

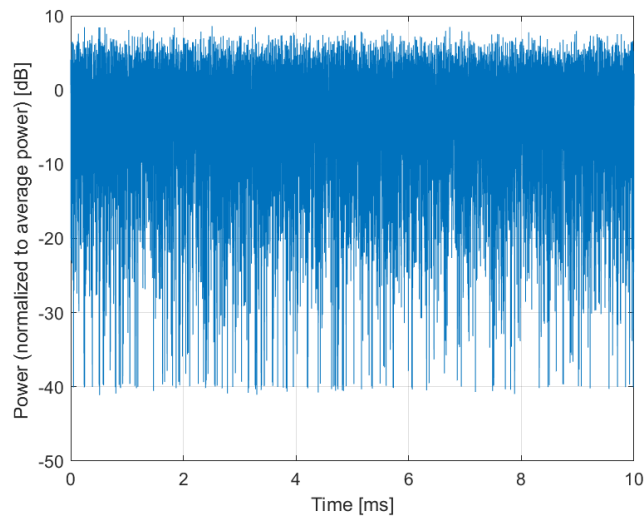
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10831-AAD

PAR: ¹ **7.73 dB**
MIF: ² **-16.83 dB**

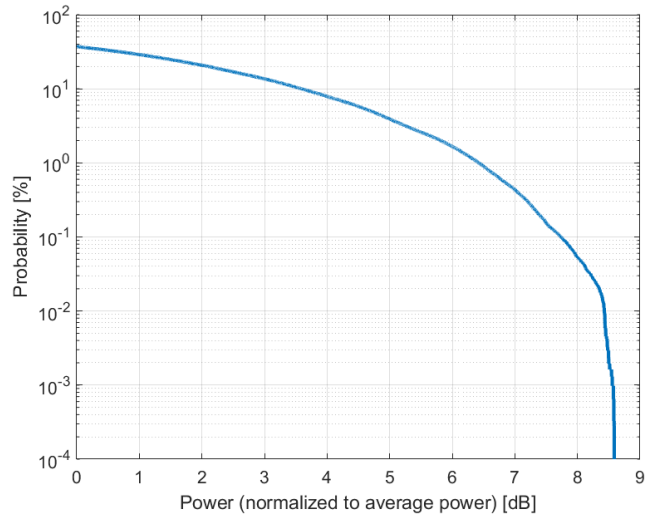
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

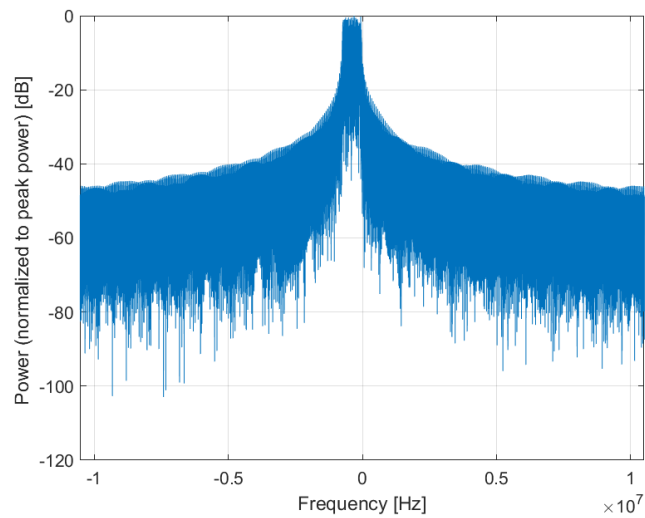
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

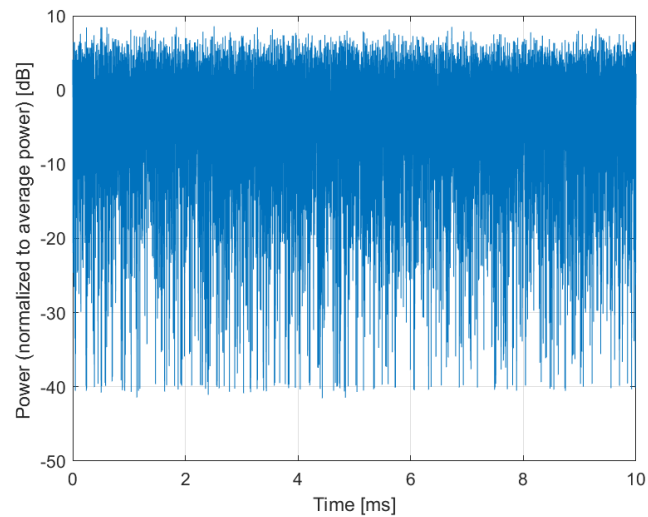
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10832-AAE

PAR: ¹ **7.74 dB**
MIF: ² **-16.58 dB**

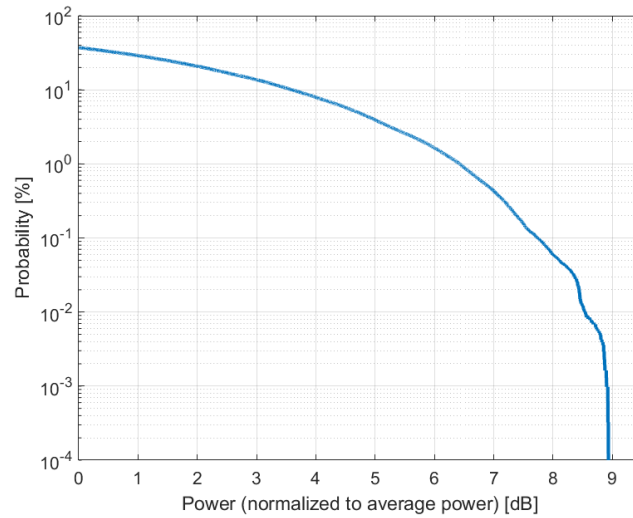
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

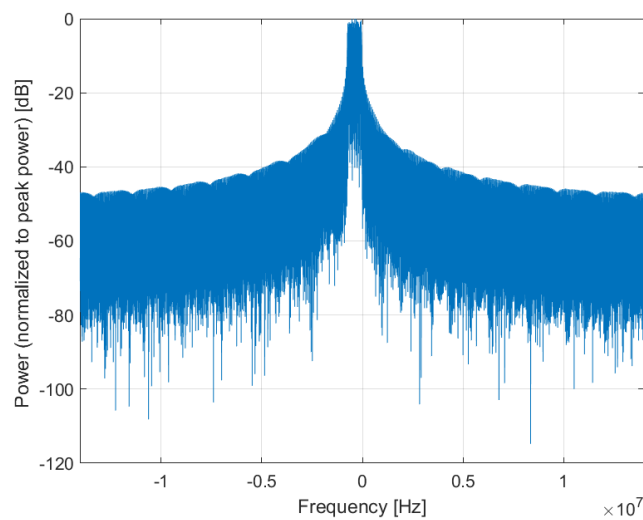
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

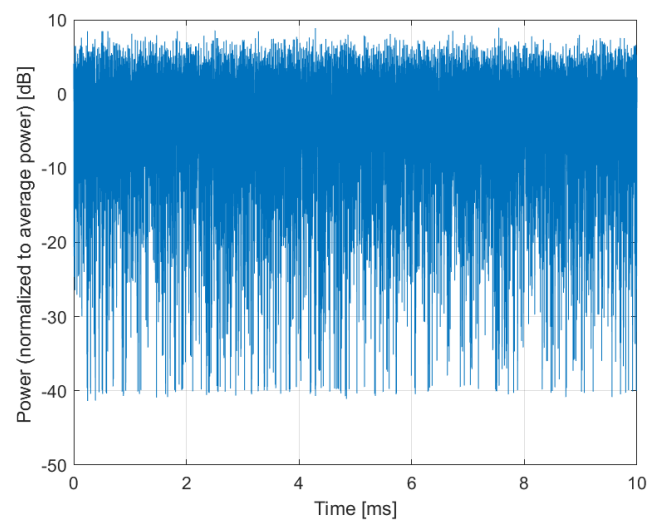
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10833-AAD

PAR: ¹ **7.70 dB**
MIF: ² **-16.65 dB**

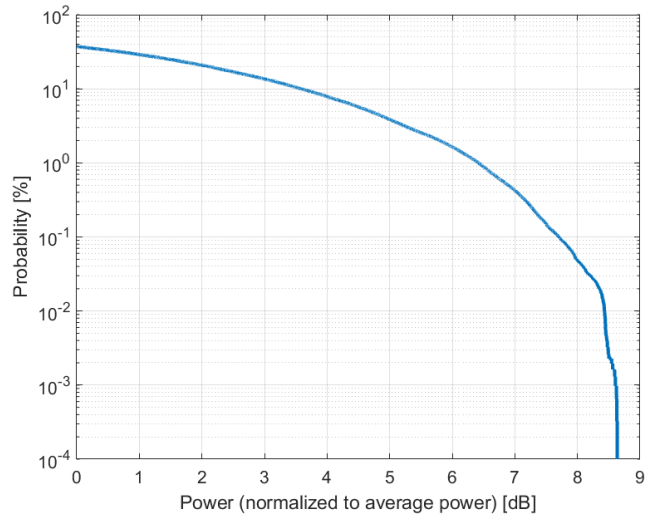
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

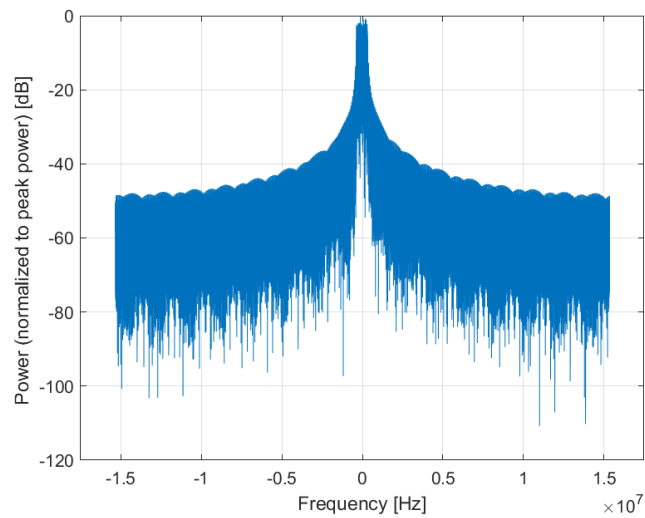
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

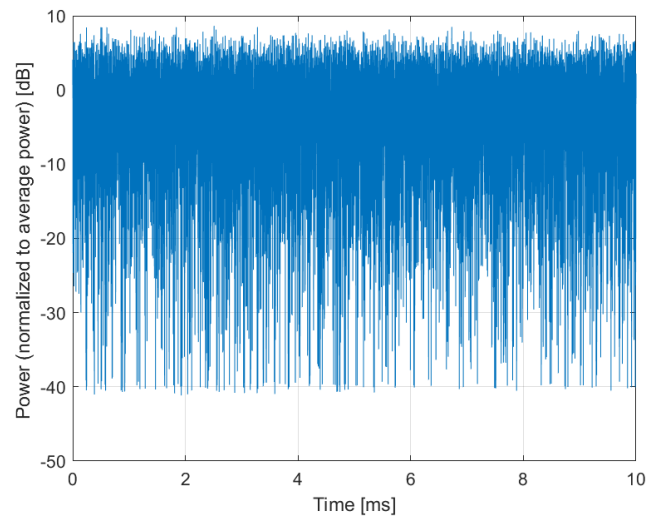
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10834-AAE

PAR: ¹ **7.75 dB**
MIF: ² **-16.48 dB**

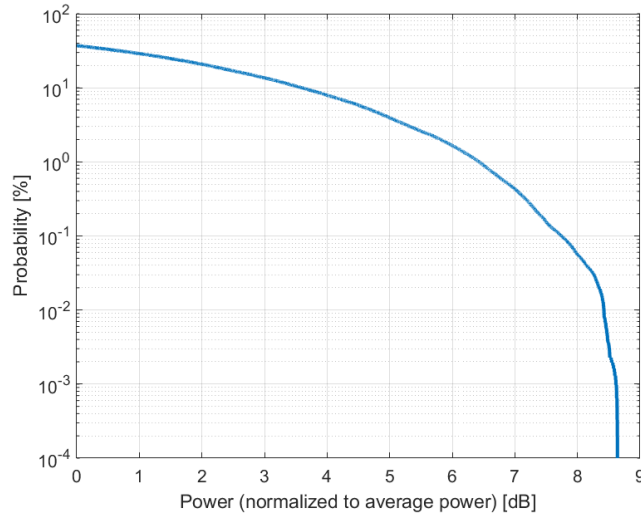
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

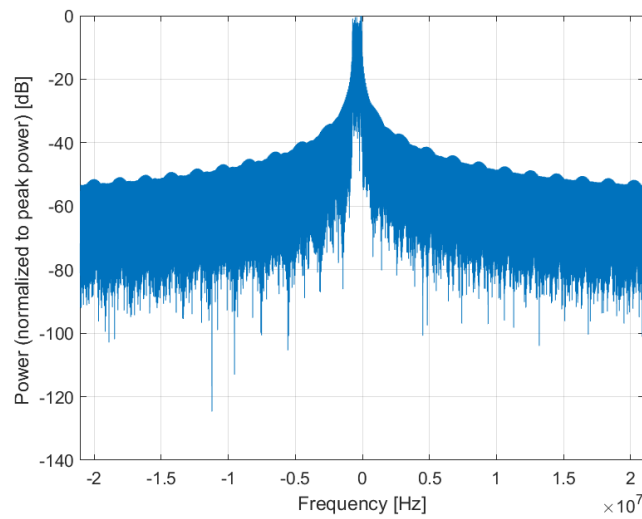
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

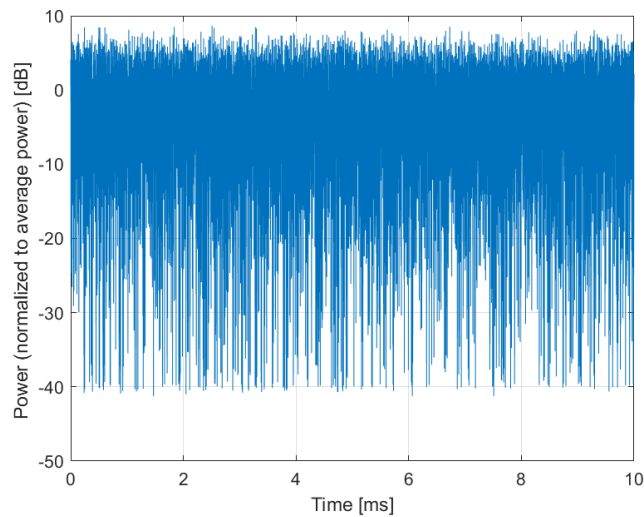
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10835-AAF

PAR: ¹ **7.70 dB**
MIF: ² **-16.85 dB**

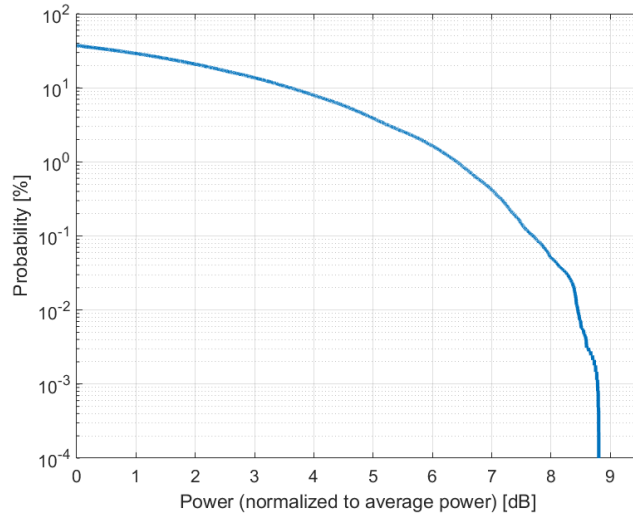
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

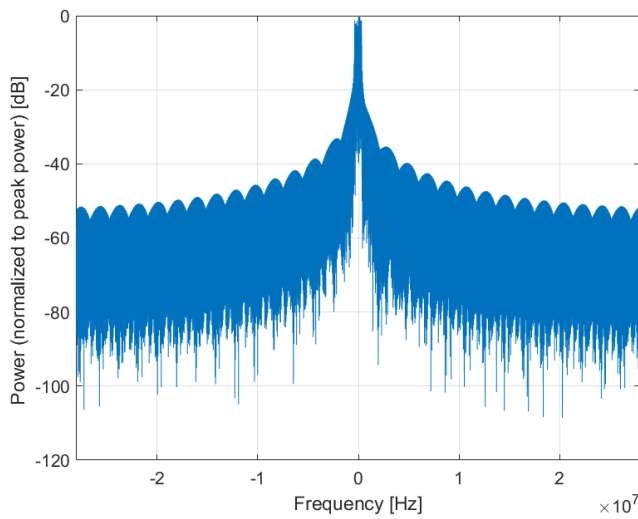
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

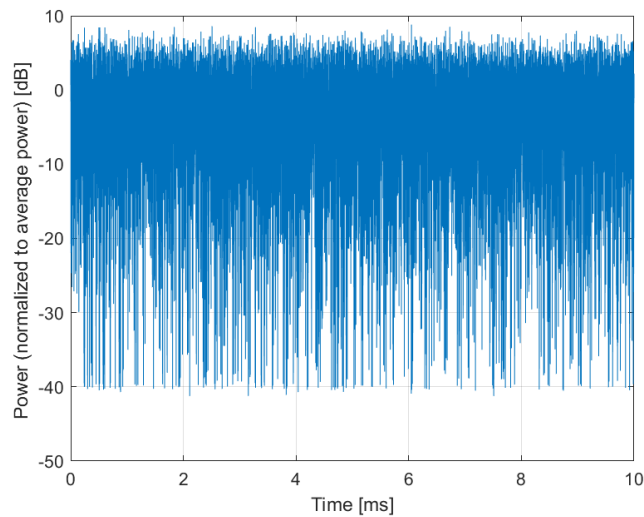
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10836-AAE

PAR: ¹ **7.66 dB**
MIF: ² **-16.56 dB**

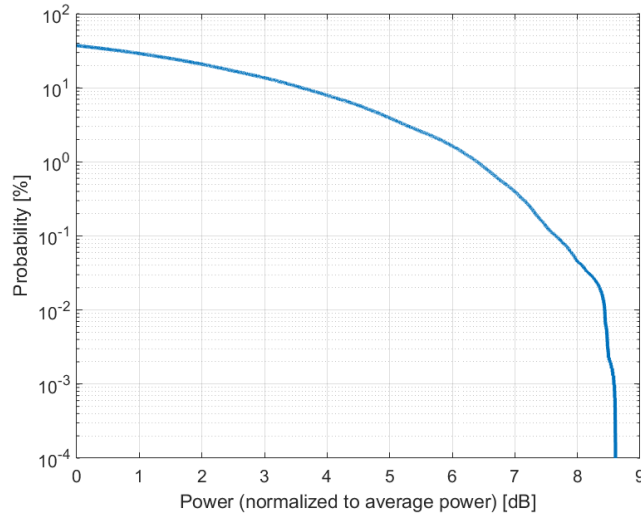
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

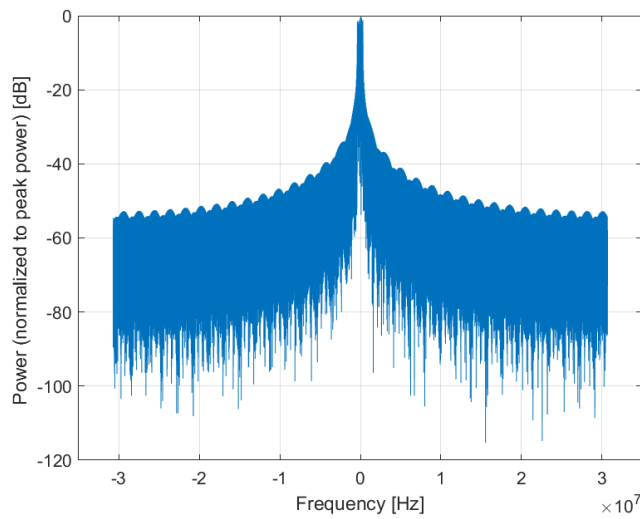
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

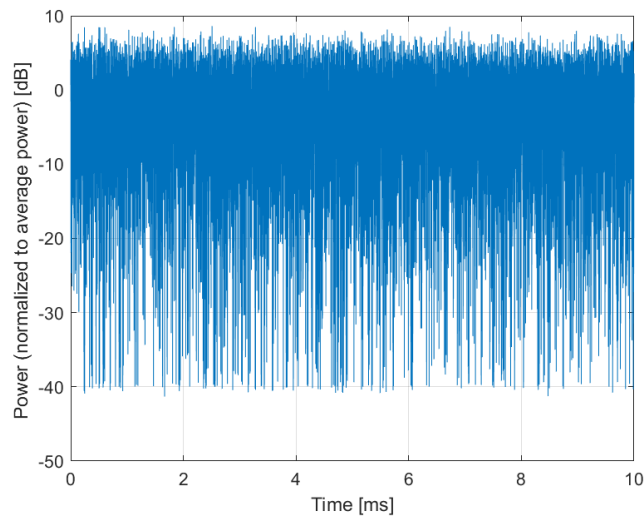
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10837-AAF

PAR: ¹ **7.68 dB**
MIF: ² **-16.85 dB**

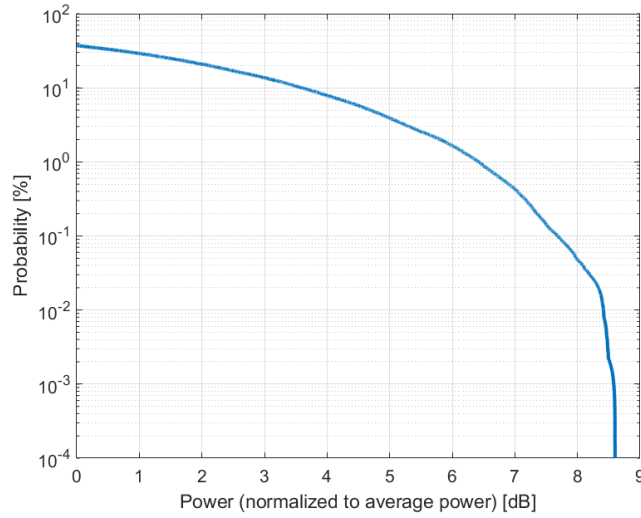
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

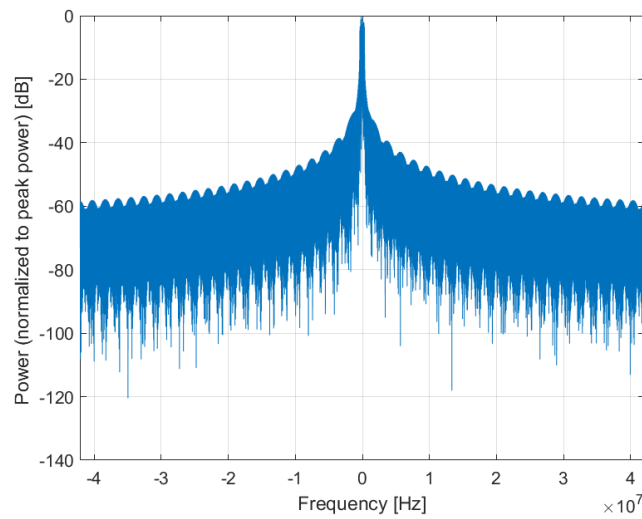
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

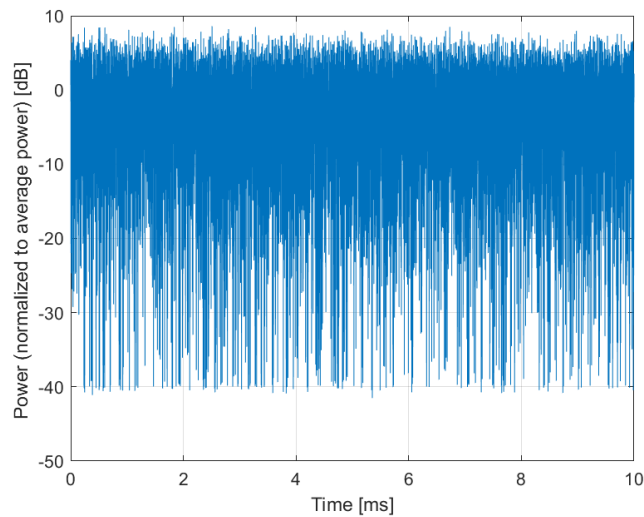
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10839-AAF

PAR: ¹ **7.70 dB**
MIF: ² **-16.71 dB**

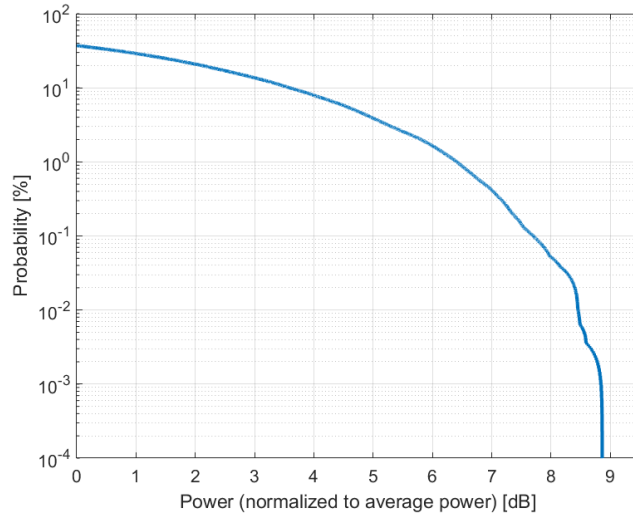
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

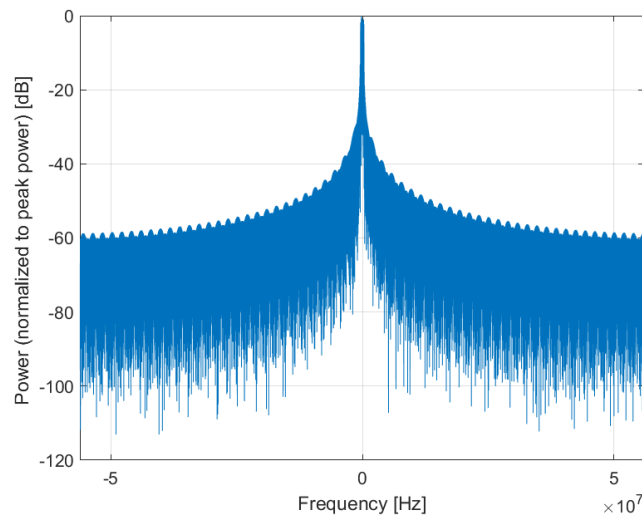
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

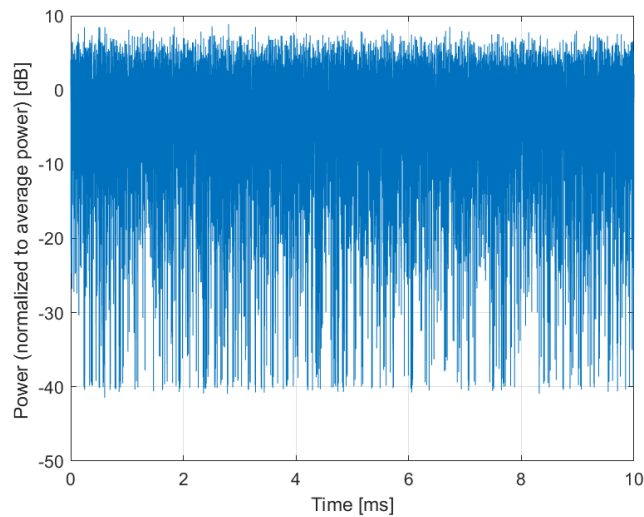
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10840-AAE

PAR: ¹ **7.67 dB**
MIF: ² **-16.57 dB**

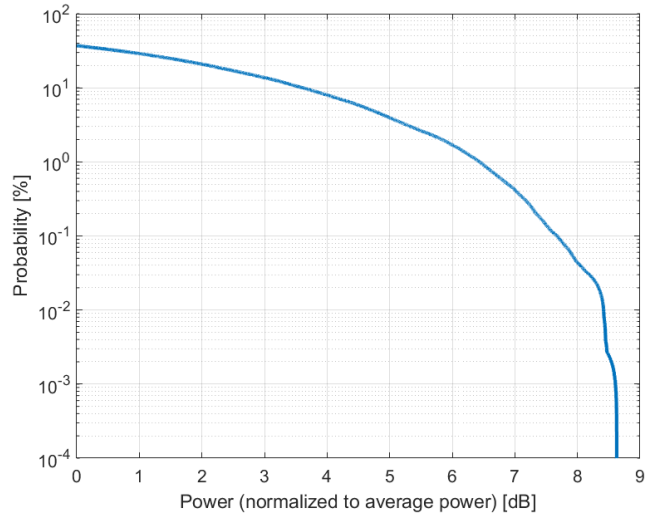
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

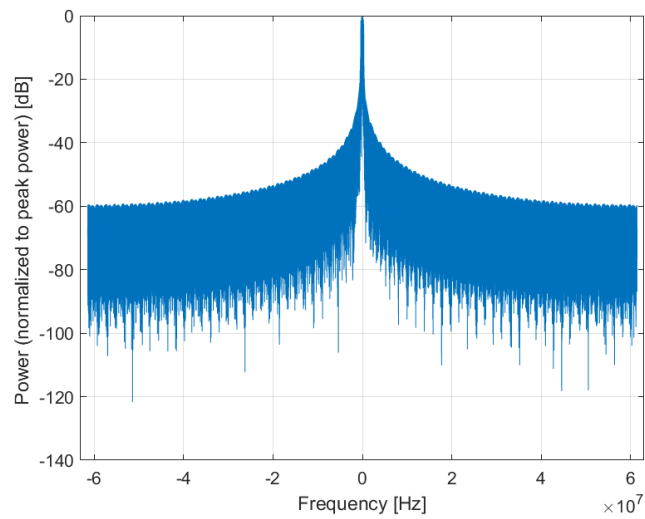
Bandwidth: 90.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

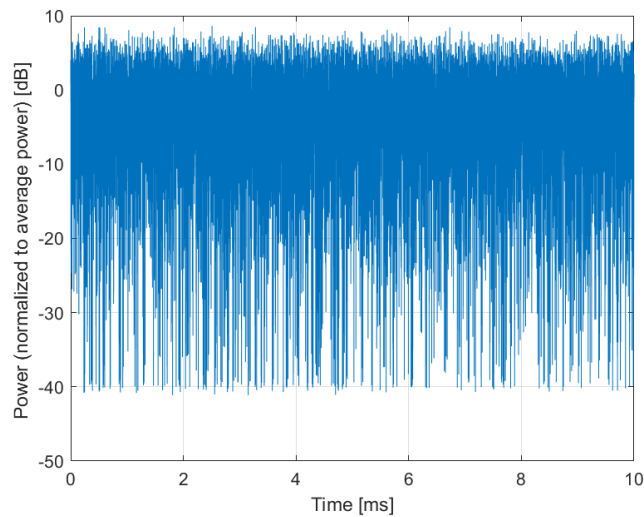
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10841-AAF

PAR: ¹ **7.71 dB**
MIF: ² **-16.46 dB**

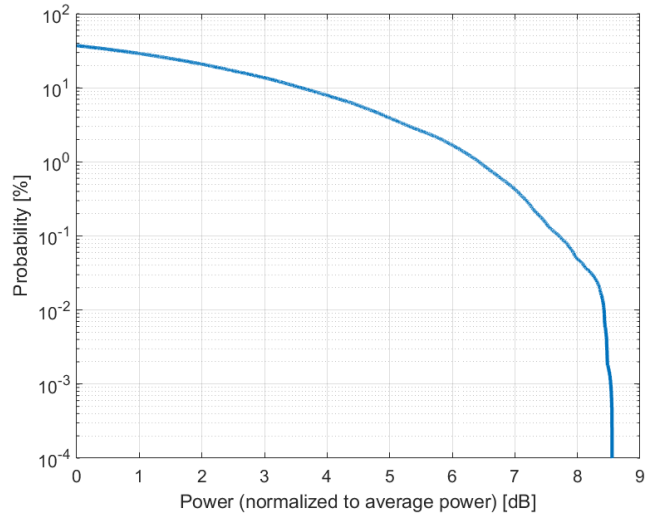
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

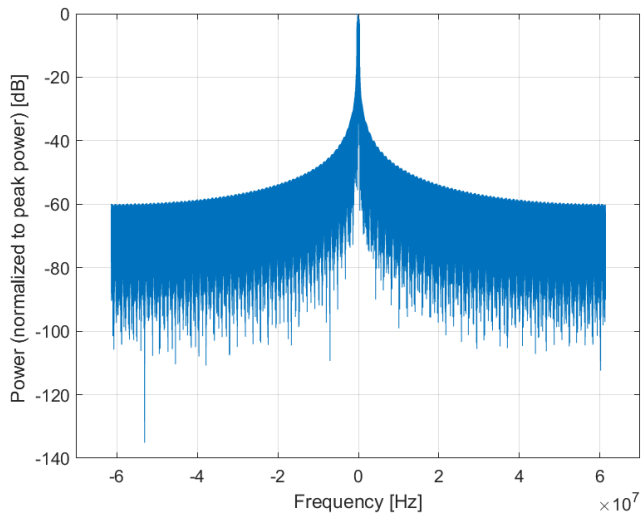
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

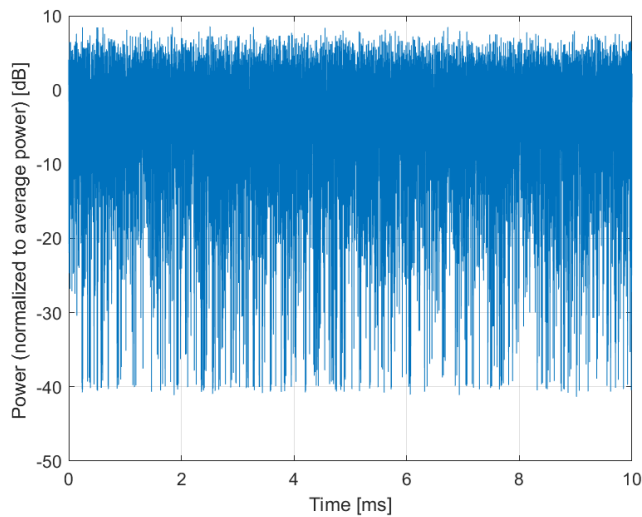
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



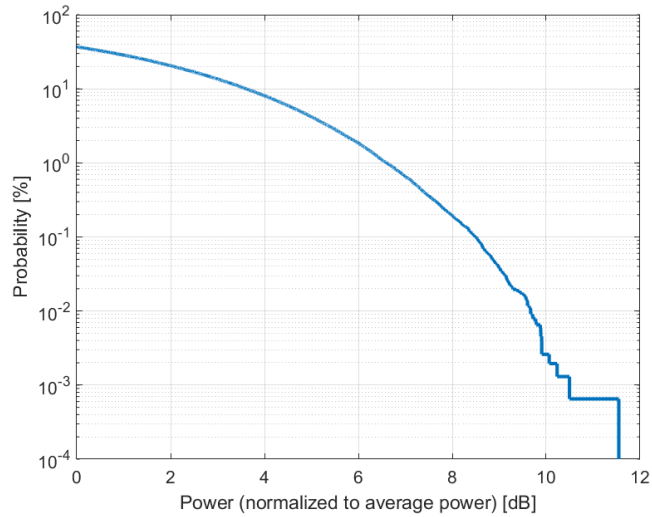
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

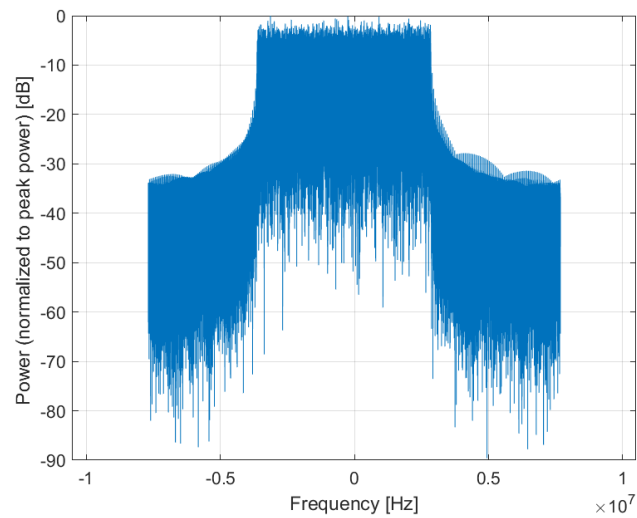
| | |
|-------------------------|--|
| Name: | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) |
| Group: | 5G NR FR1 TDD |
| UID: | 10843-AAD |
| PAR: ¹ | 8.49 dB |
| MIF: ² | -20.86 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Multiplexing Scheme: CP-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 60 kHz Number RBs: 9 Slot Format Index: 1 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

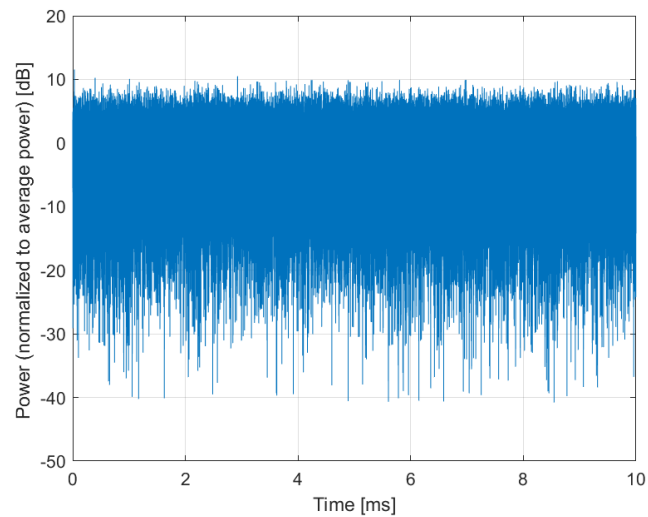
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10844-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-21.97 dB**

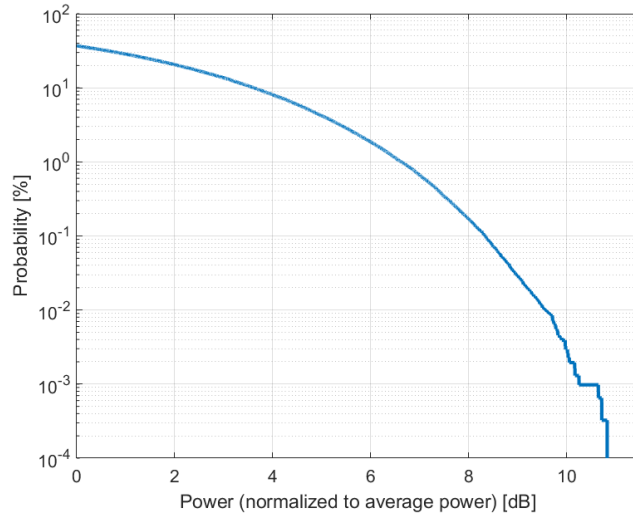
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 12
Slot Format Index: 1
Data Type: PN9

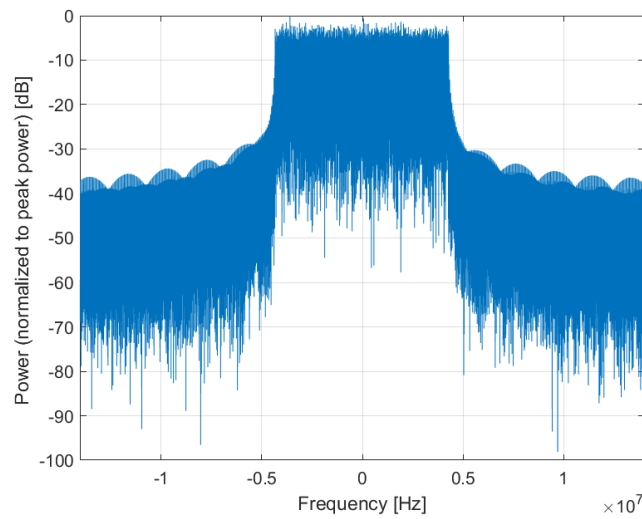
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

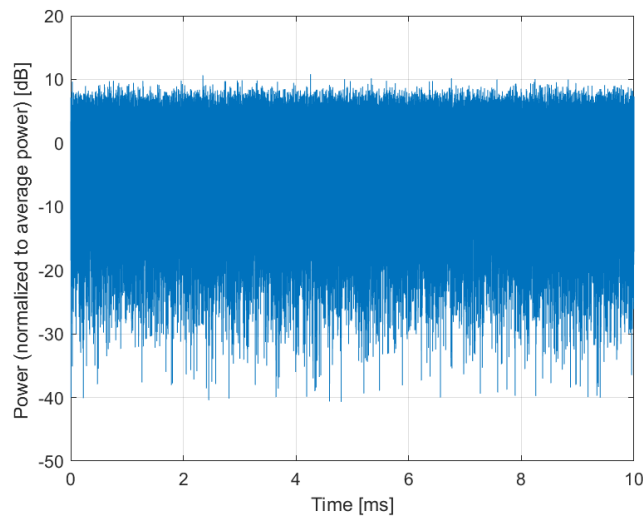
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10846-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-22.29 dB**

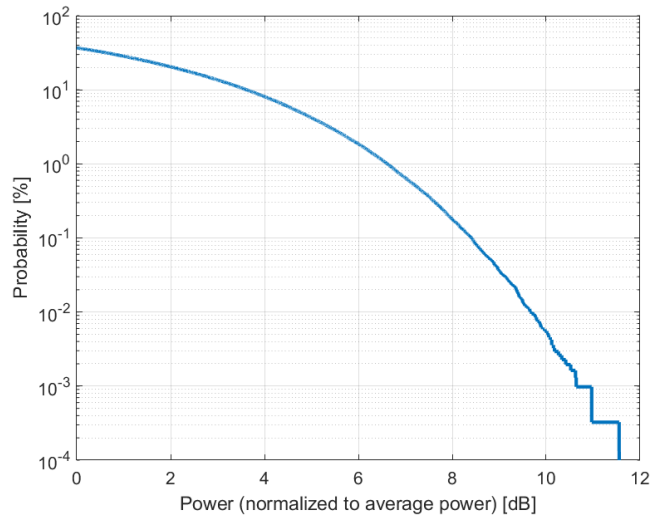
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 19
Slot Format Index: 1
Data Type: PN9

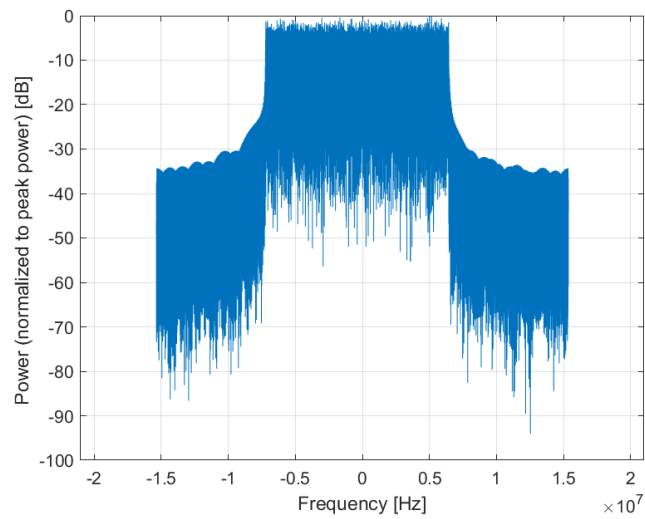
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

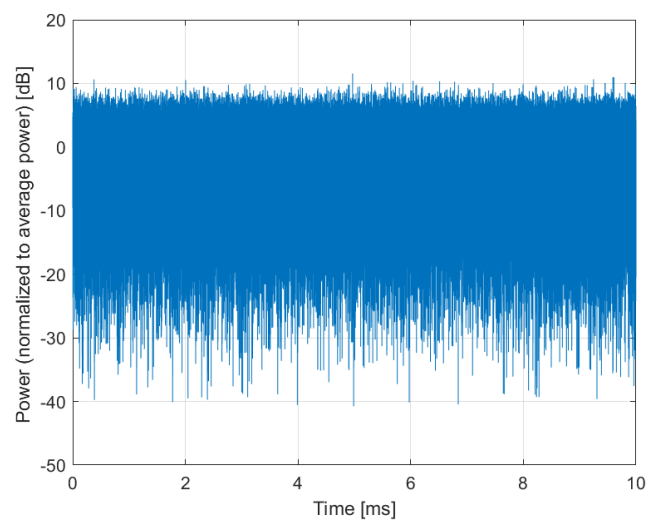
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10854-AAE

PAR: ¹ **8.34 dB**
MIF: ² **-21.22 dB**

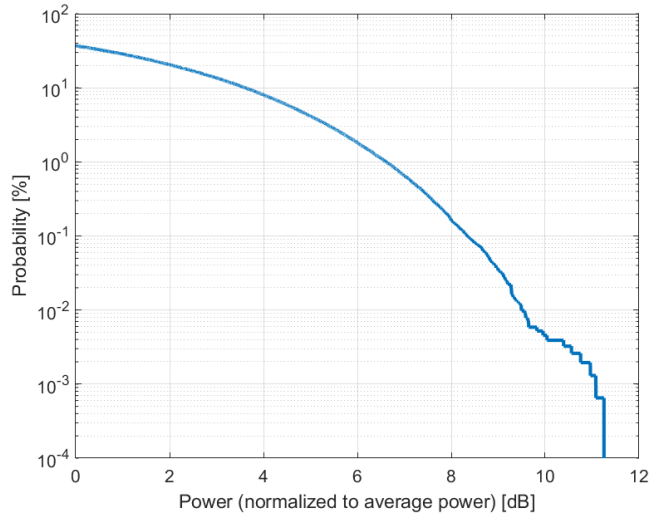
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 11
Slot Format Index: 1
Data Type: PN9

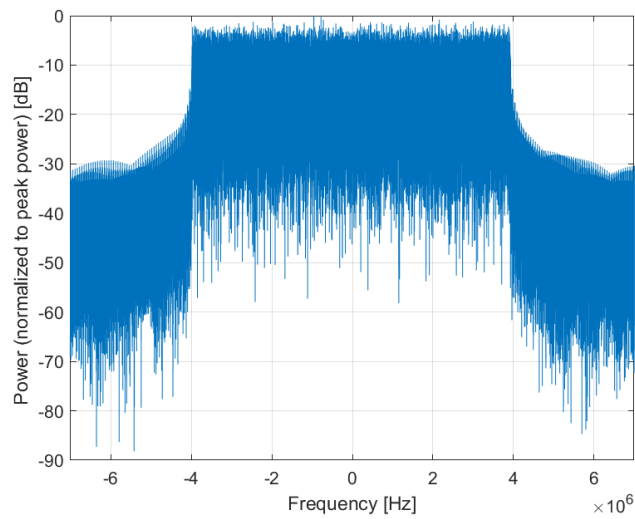
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

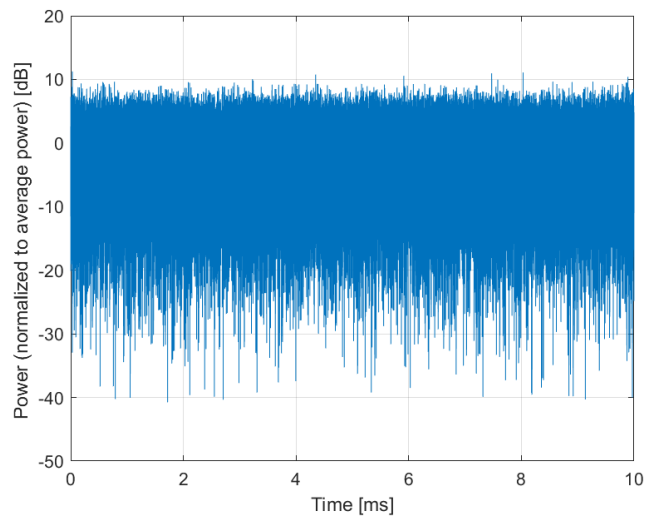
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10855-AAD

PAR: ¹ **8.36 dB**
MIF: ² **-22.79 dB**

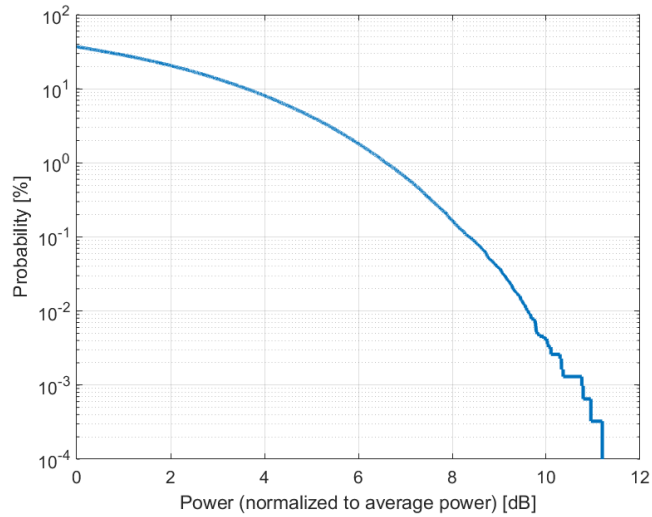
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 18
Slot Format Index: 1
Data Type: PN9

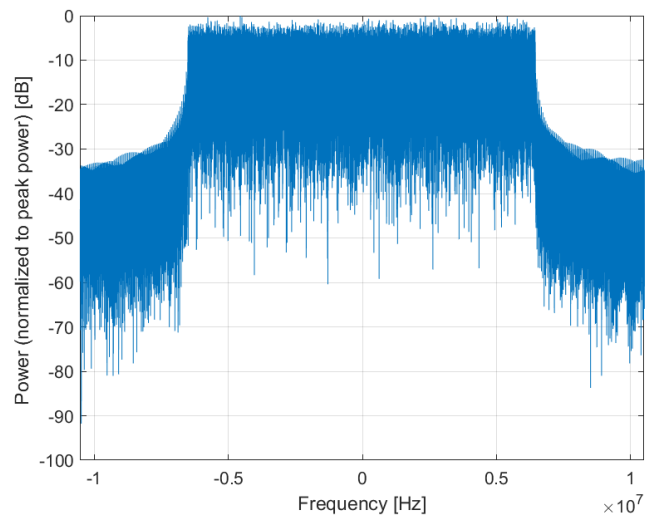
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

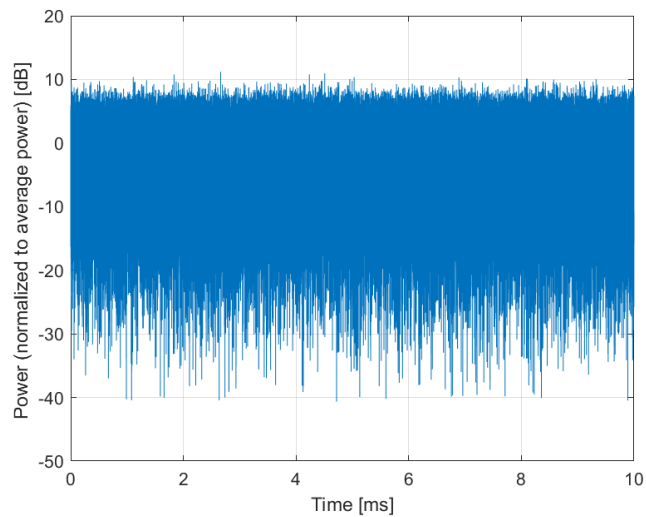
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10856-AAE

PAR: ¹ **8.37 dB**
MIF: ² **-23.39 dB**

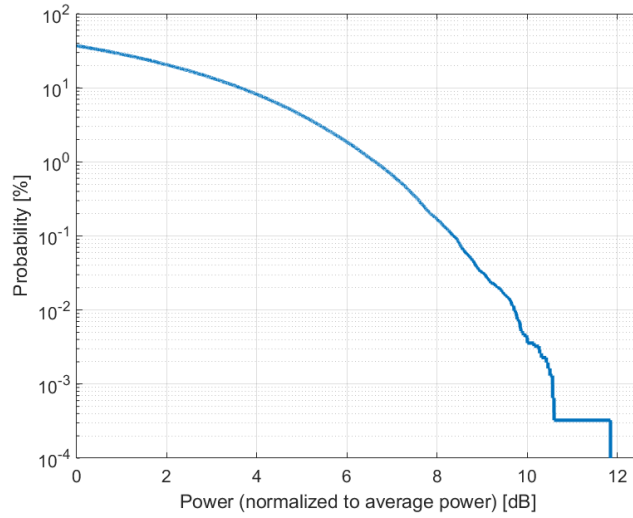
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 24
Slot Format Index: 1
Data Type: PN9

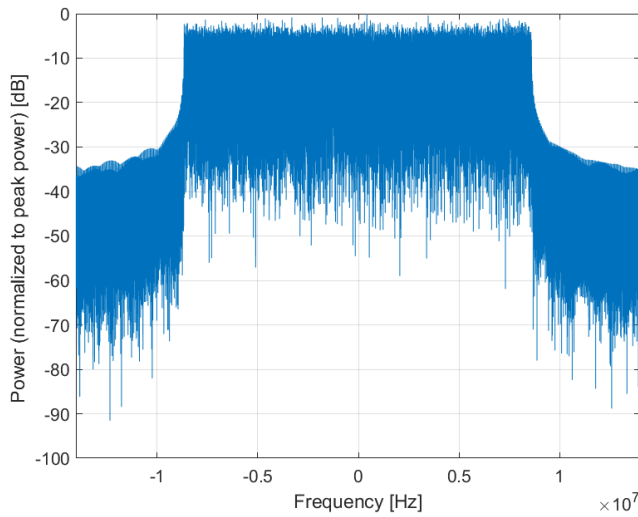
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

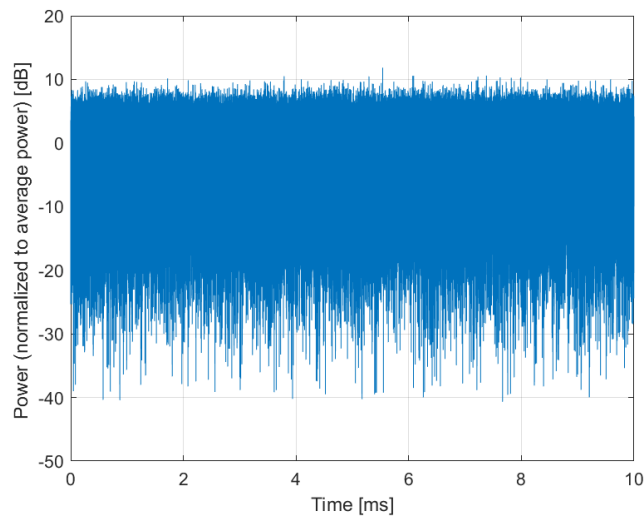
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10857-AAD

PAR: ¹ **8.35 dB**
MIF: ² **-23.88 dB**

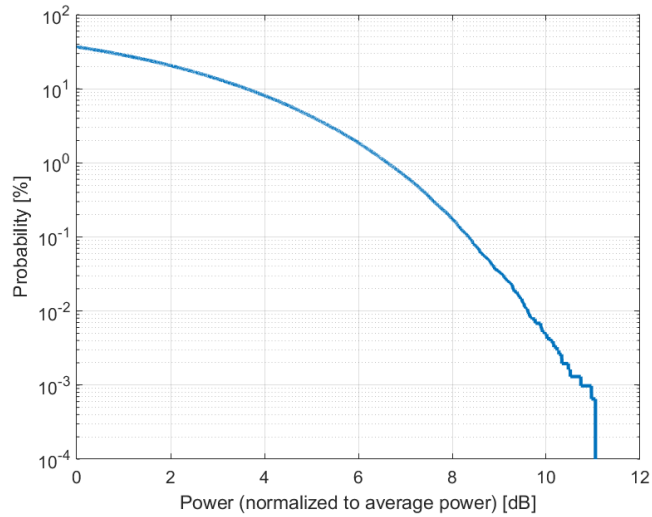
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 31
Slot Format Index: 1
Data Type: PN9

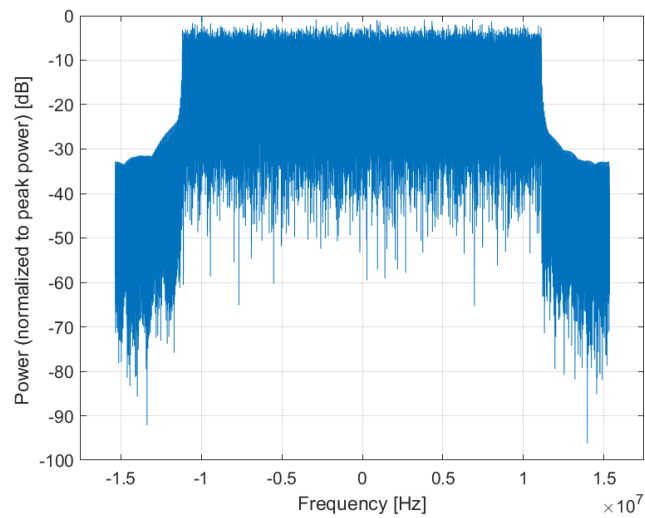
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

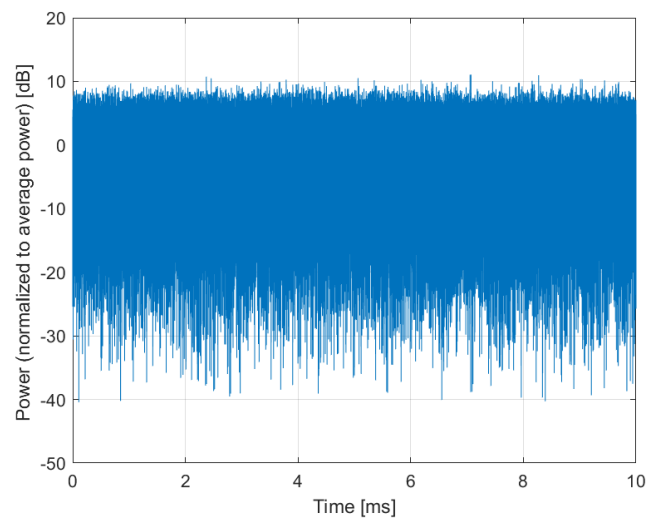
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10858-AAE

PAR: ¹ **8.36 dB**
MIF: ² **-24.52 dB**

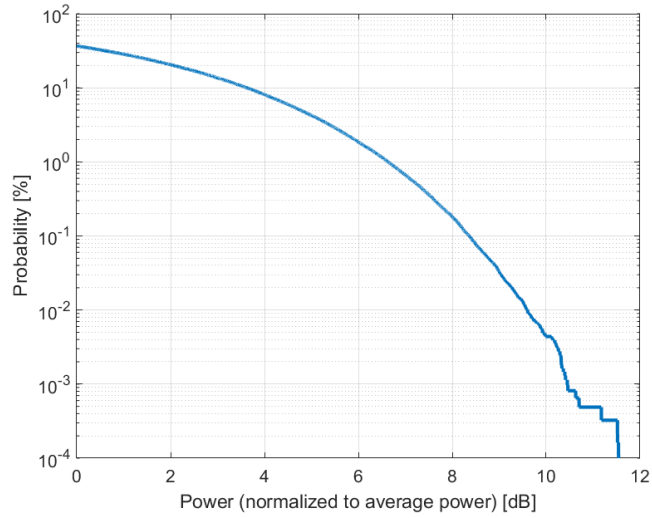
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 38
Slot Format Index: 1
Data Type: PN9

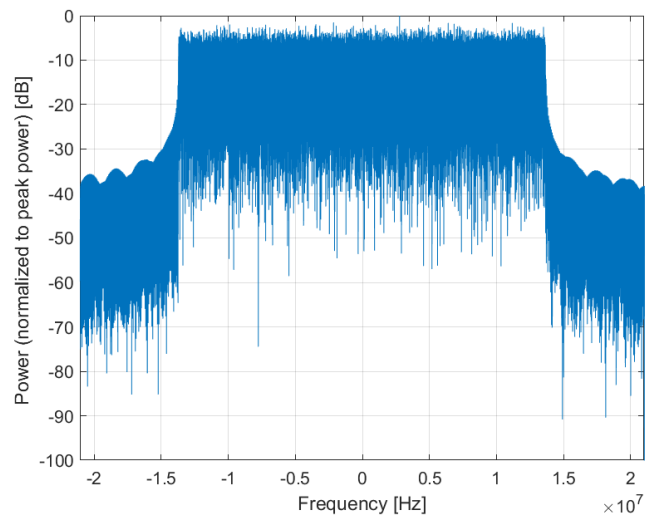
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

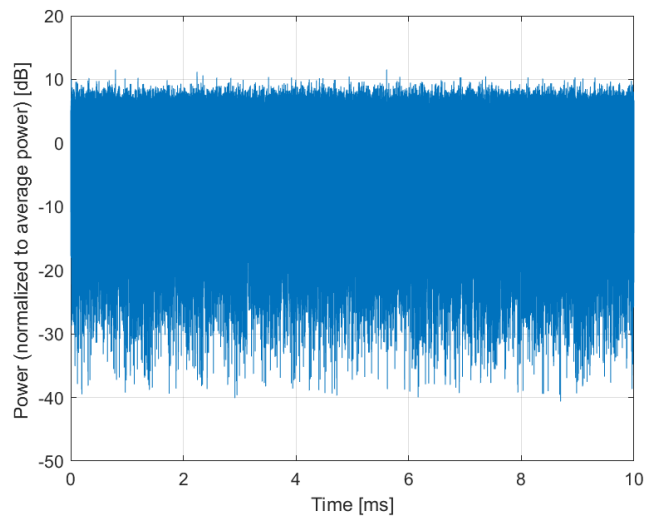
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10859-AAF

PAR: ¹ **8.34 dB**
MIF: ² **-24.92 dB**

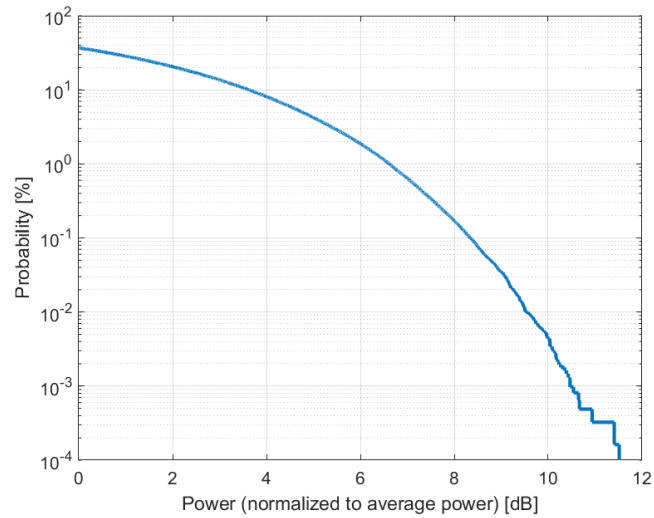
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 51
Slot Format Index: 1
Data Type: PN9

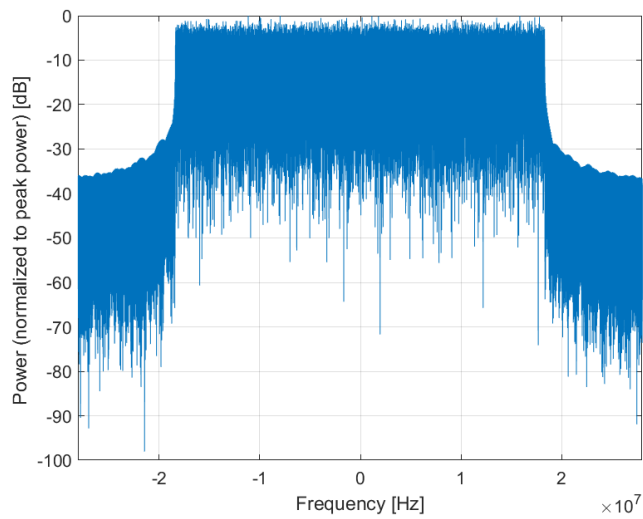
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

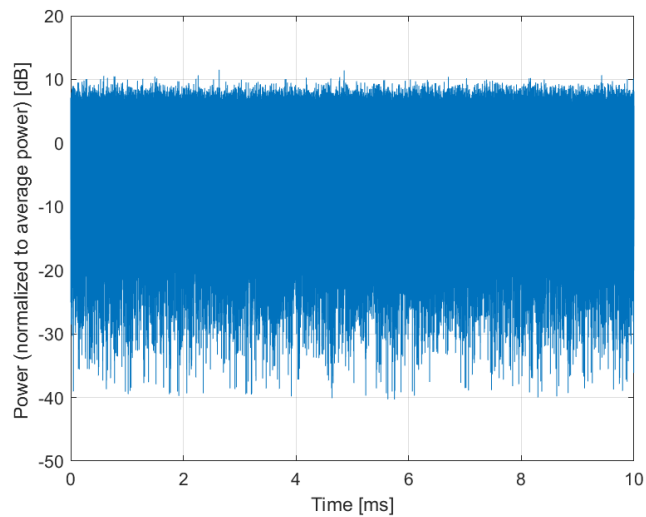
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10860-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-25.11 dB**

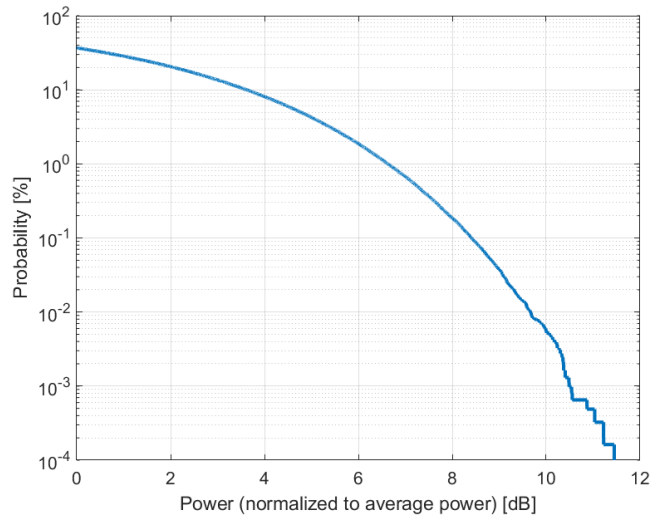
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 65
Slot Format Index: 1
Data Type: PN9

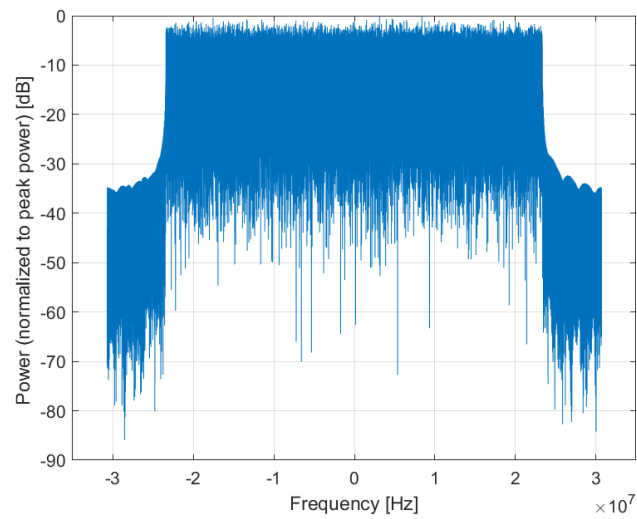
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

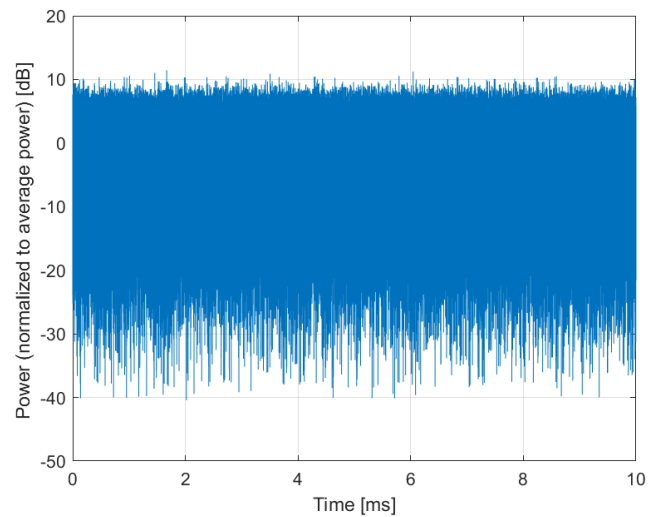
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10861-AAF

PAR: ¹ **8.40 dB**
MIF: ² **-25.74 dB**

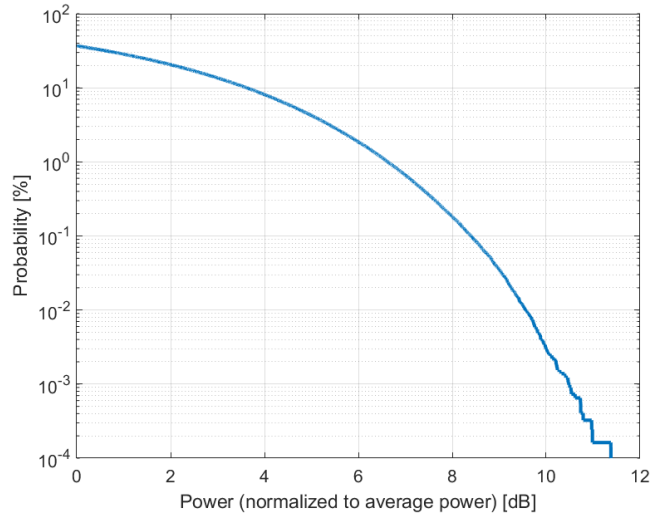
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 79
Slot Format Index: 1
Data Type: PN9

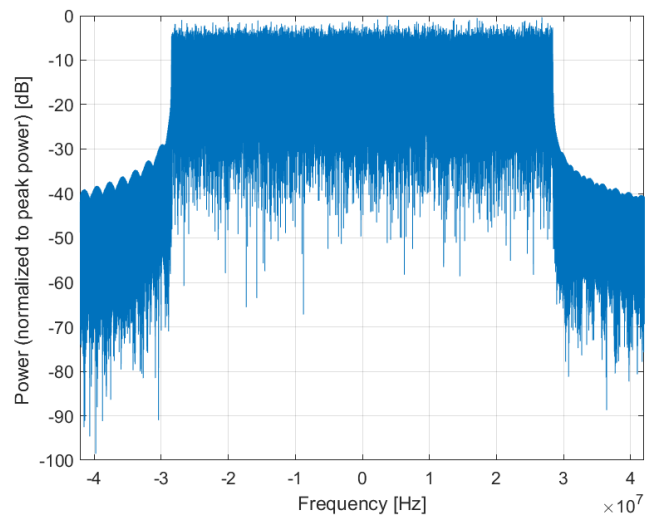
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

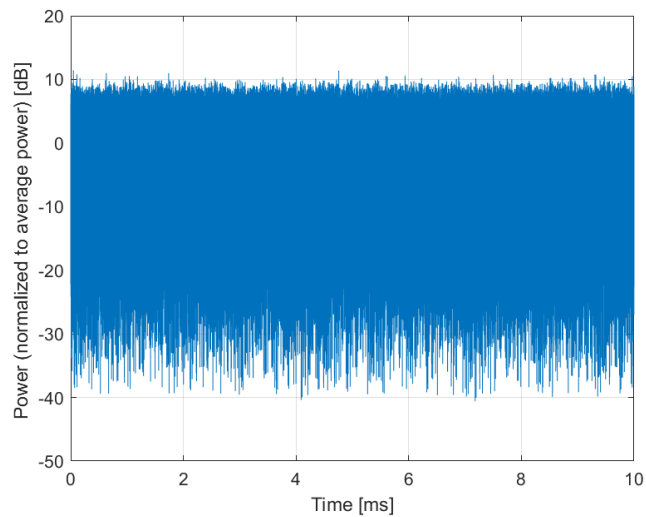
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10863-AAF

PAR: ¹ **8.41 dB**
MIF: ² **-26.63 dB**

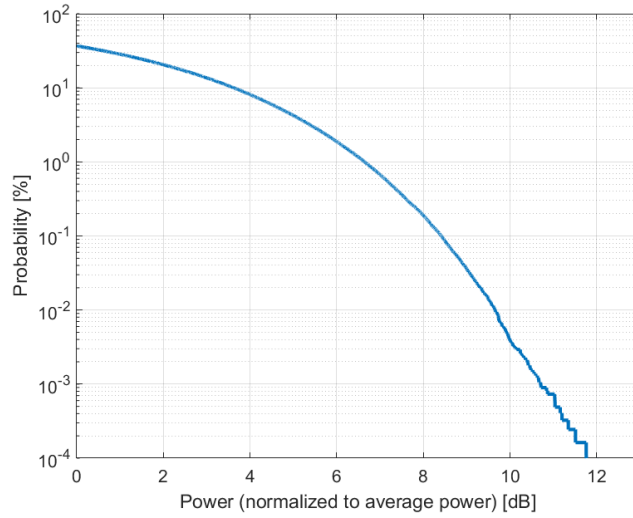
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 107
Slot Format Index: 1
Data Type: PN9

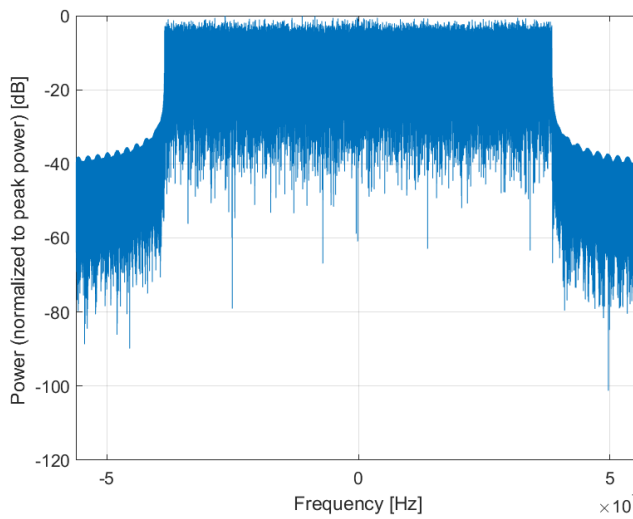
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

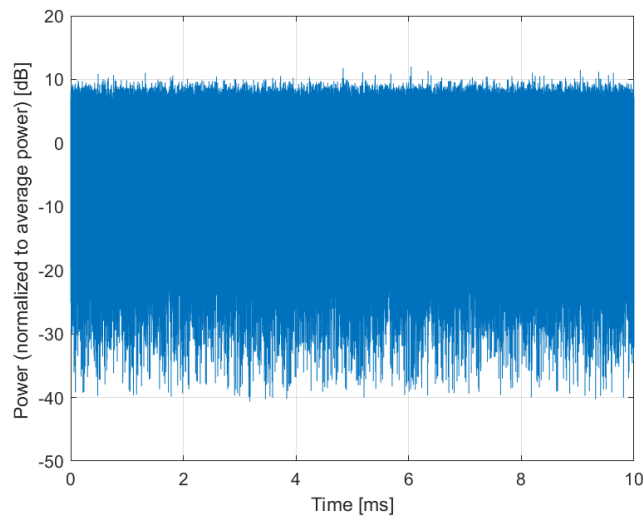
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10864-AAE

PAR: ¹ **8.37 dB**
MIF: ² **-27.49 dB**

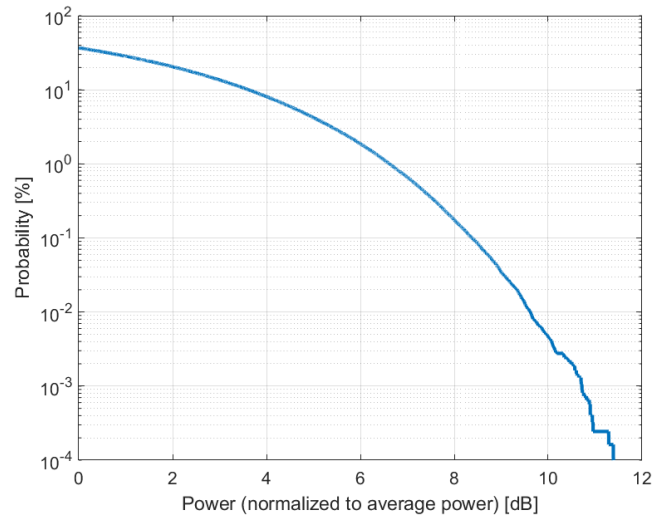
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 121
Slot Format Index: 1
Data Type: PN9

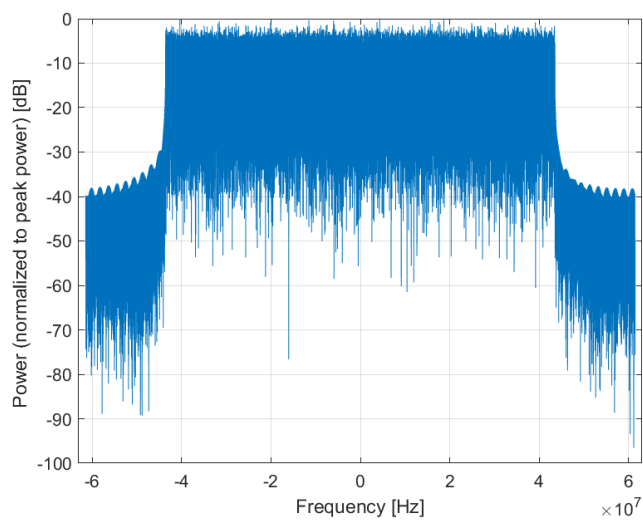
Bandwidth: 90.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

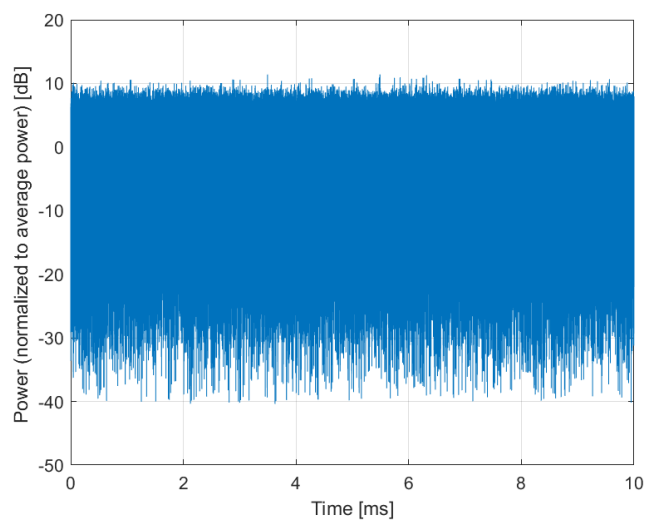
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)**

Group: 5G NR FR1 TDD
UID: 10865-AAF

PAR: ¹ **8.41 dB**
MIF: ² **-26.96 dB**

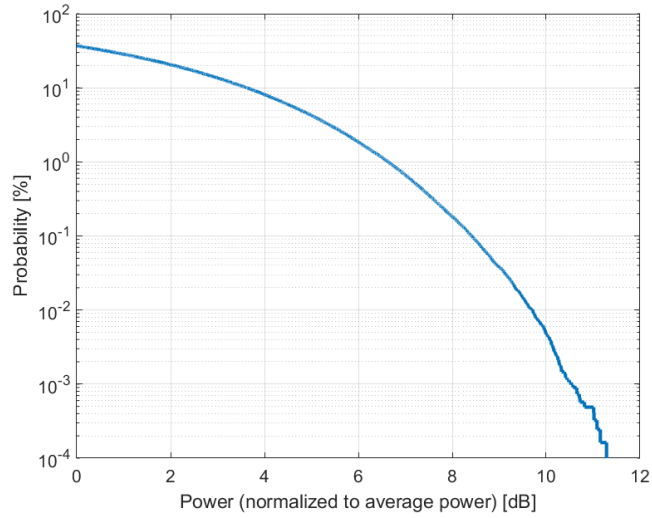
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 60 kHz
Number RBs: 135
Slot Format Index: 1
Data Type: PN9

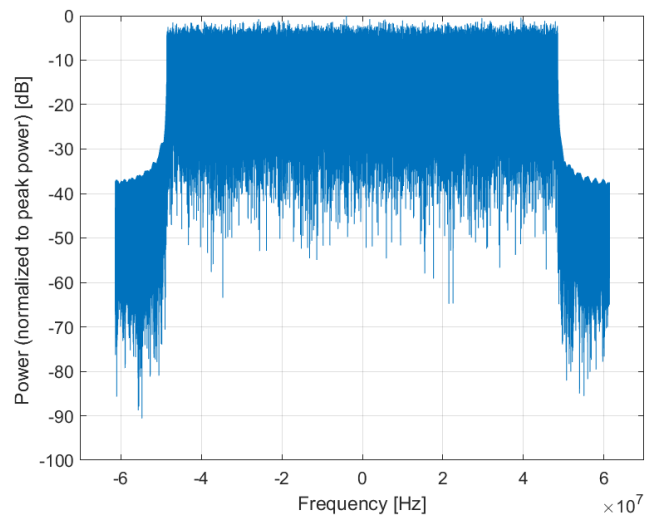
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

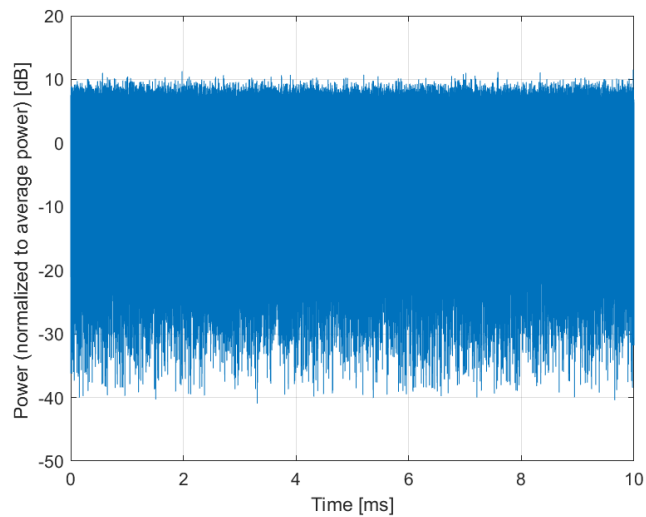
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10866-AAF

PAR: ¹ **5.68 dB**
MIF: ² **-16.69 dB**

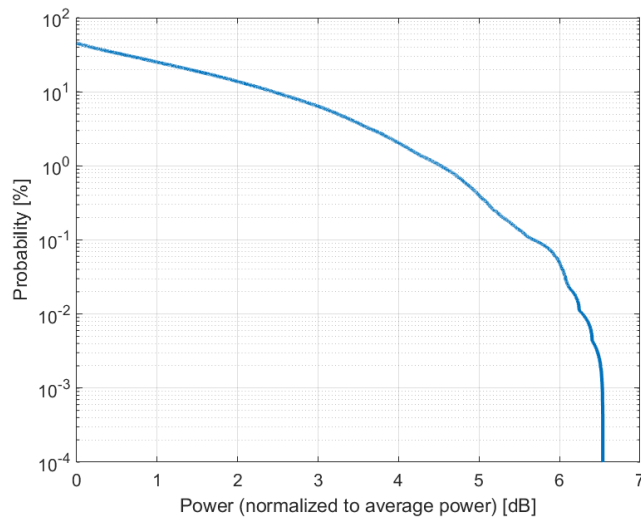
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

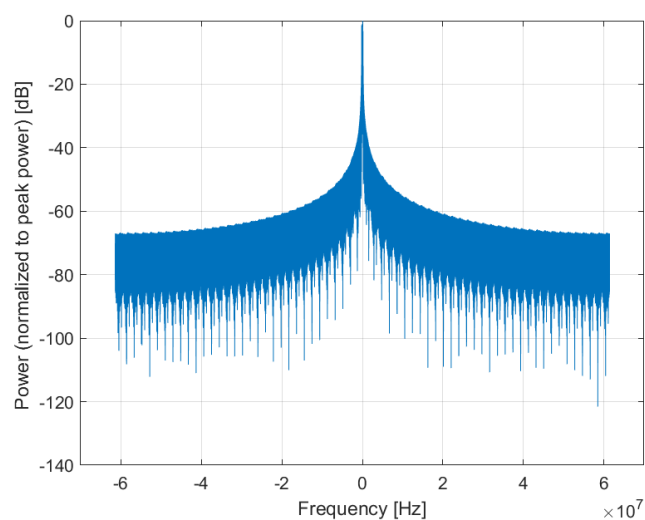
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

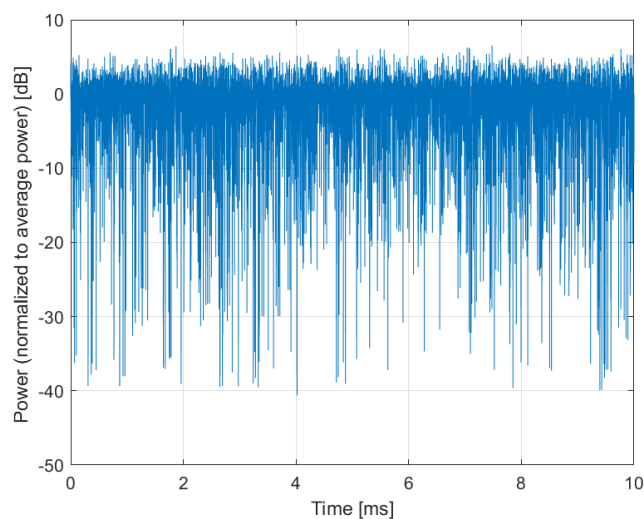
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10868-AAF

PAR: ¹ **5.89 dB**
MIF: ² **-20.47 dB**

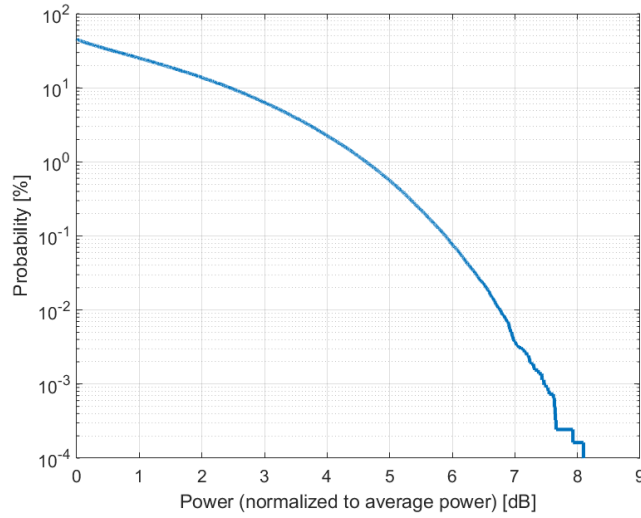
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 273
Slot Format Index: 1
Data Type: PN9

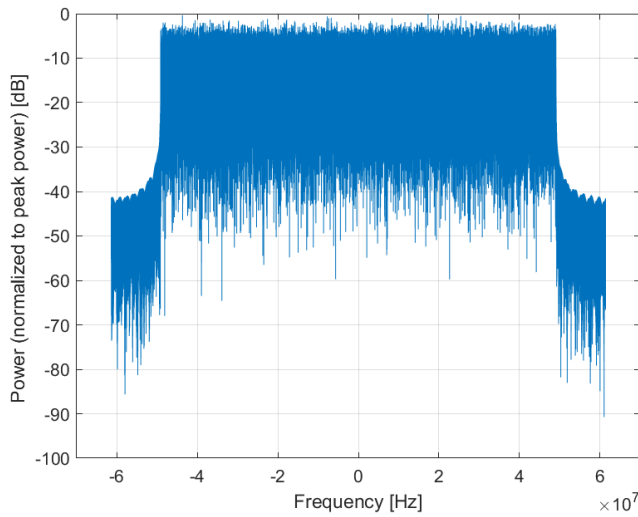
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

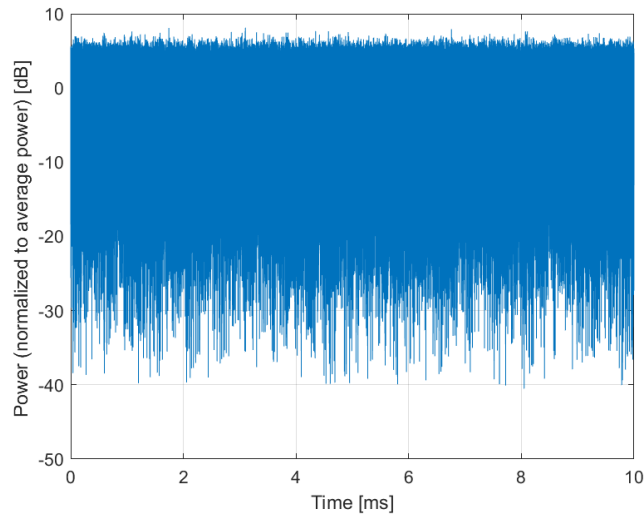
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10869-AAE

PAR: ¹ **5.75 dB**
MIF: ² **-19.60 dB**

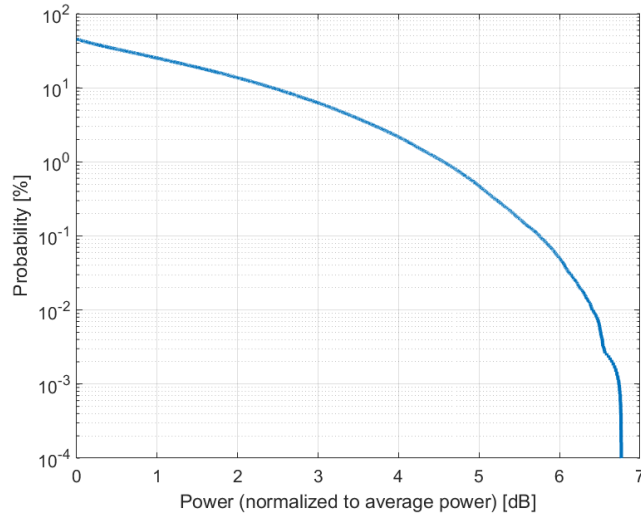
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

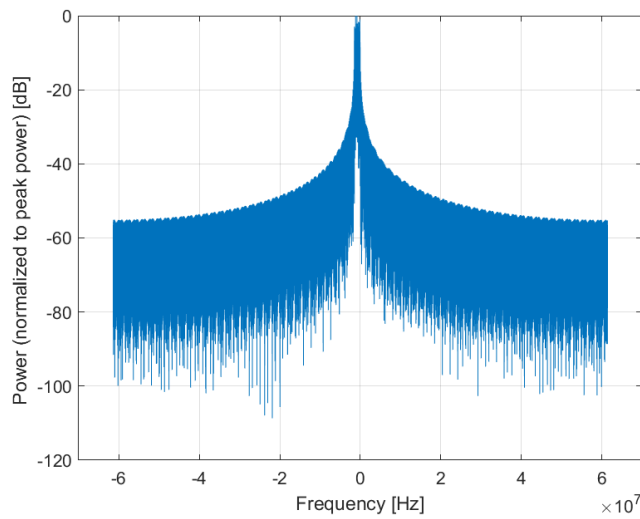
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

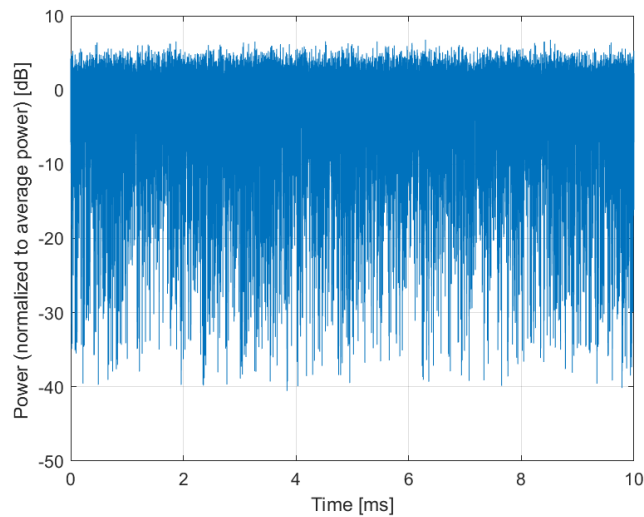
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10870-AAE

PAR: ¹ **5.86 dB**
MIF: ² **-28.74 dB**

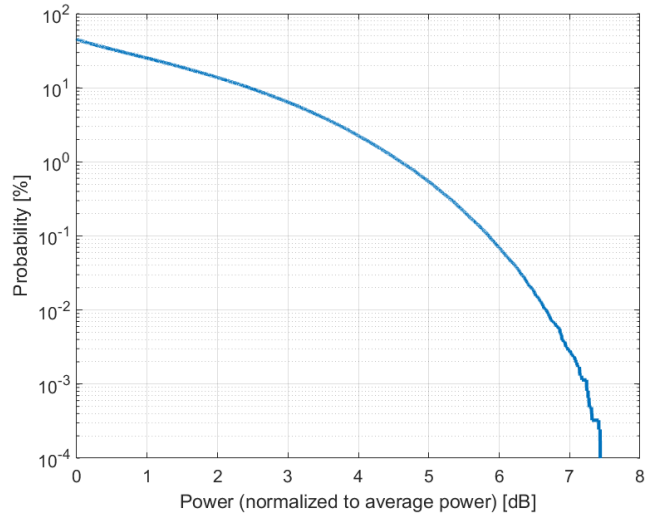
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

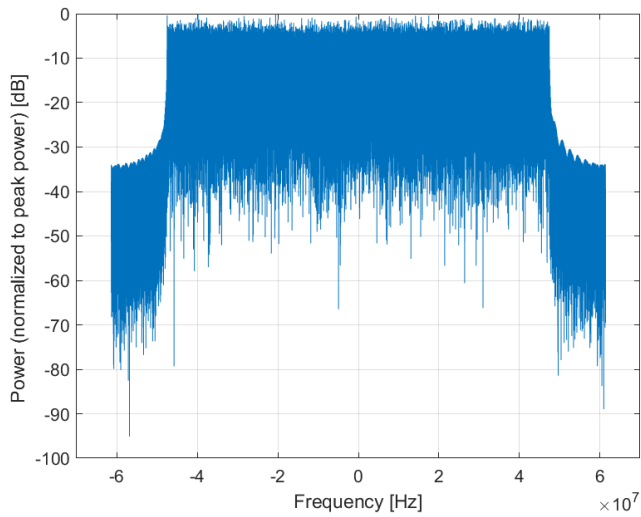
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

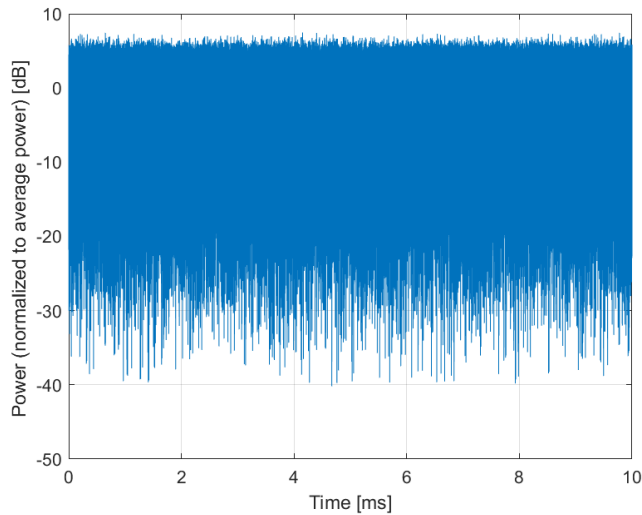
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10871-AAE

PAR: ¹ **5.75 dB**
MIF: ² **-19.60 dB**

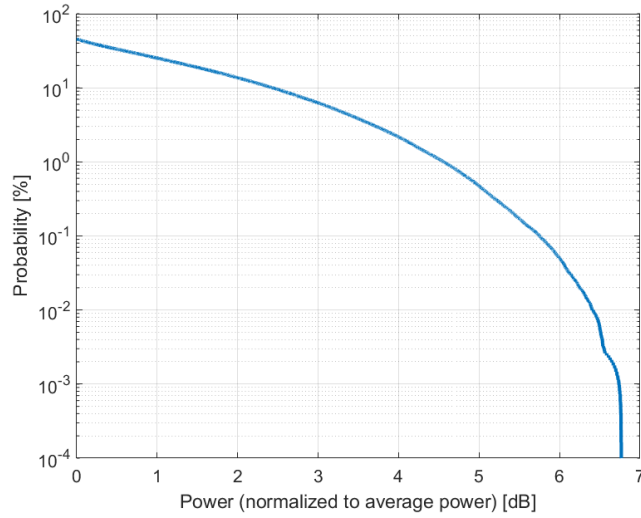
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

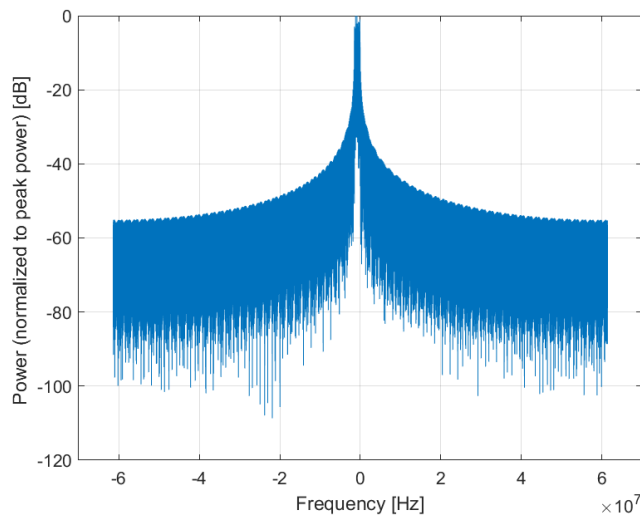
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

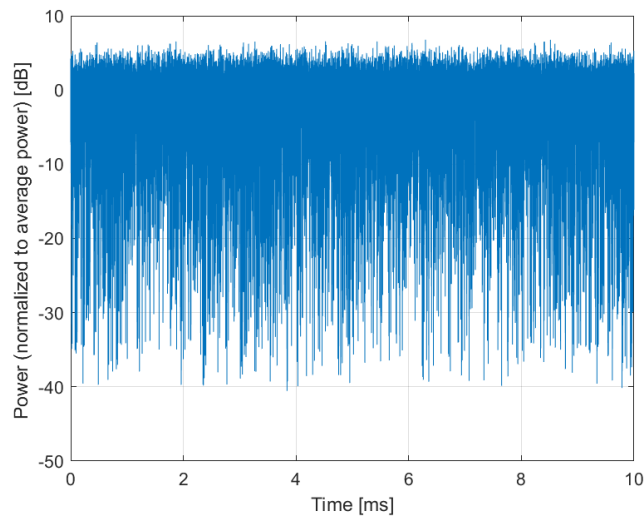
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10872-AAE

PAR: ¹ **6.52 dB**
MIF: ² **-25.81 dB**

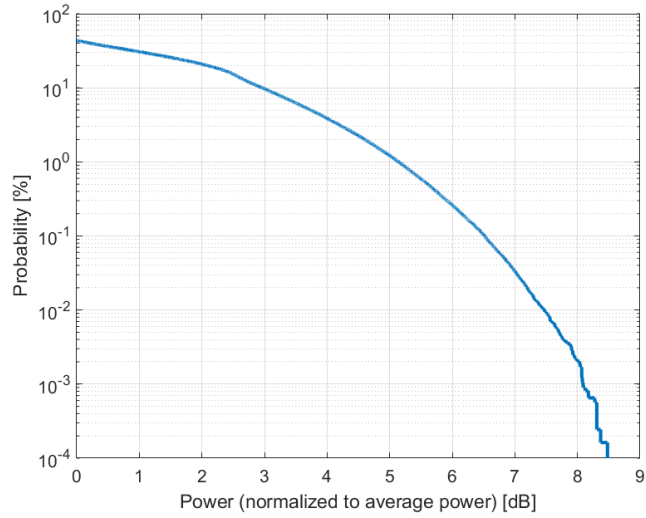
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

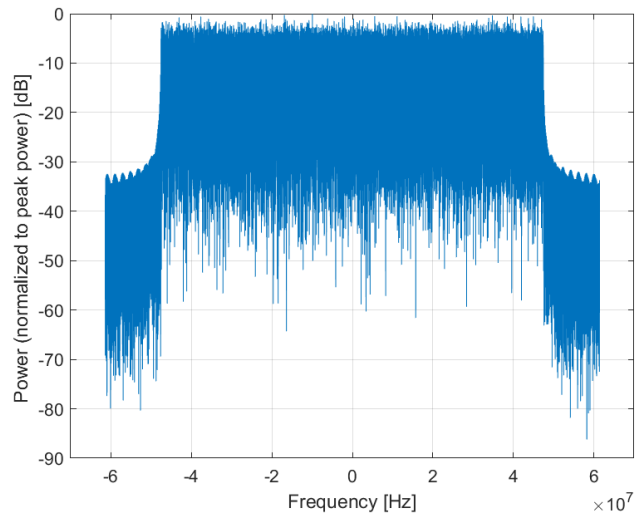
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

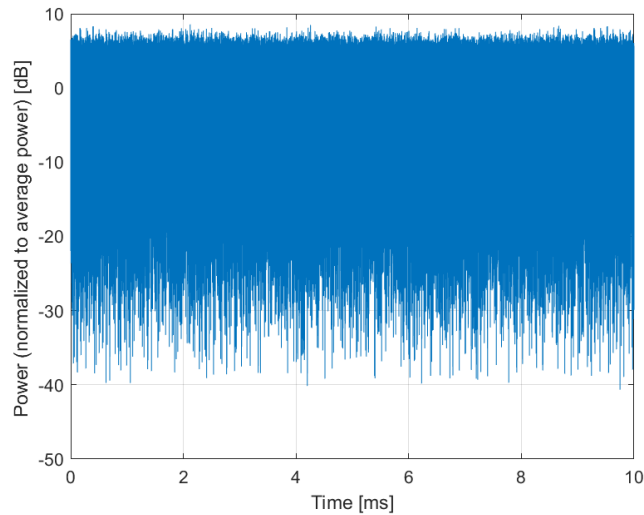
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10873-AAE

PAR: ¹ **6.61 dB**
MIF: ² **-17.01 dB**

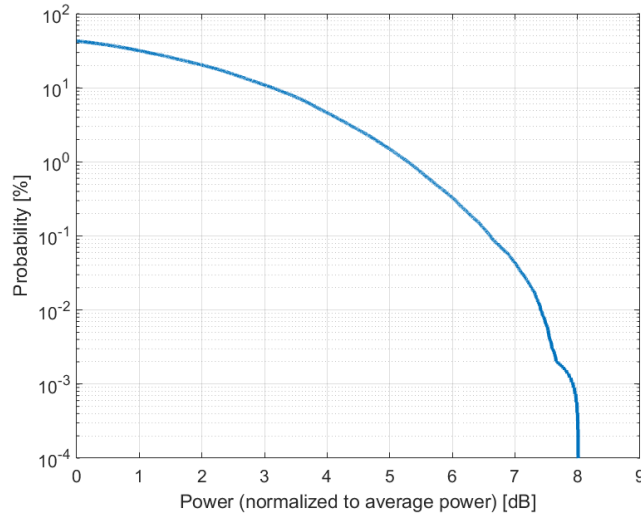
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

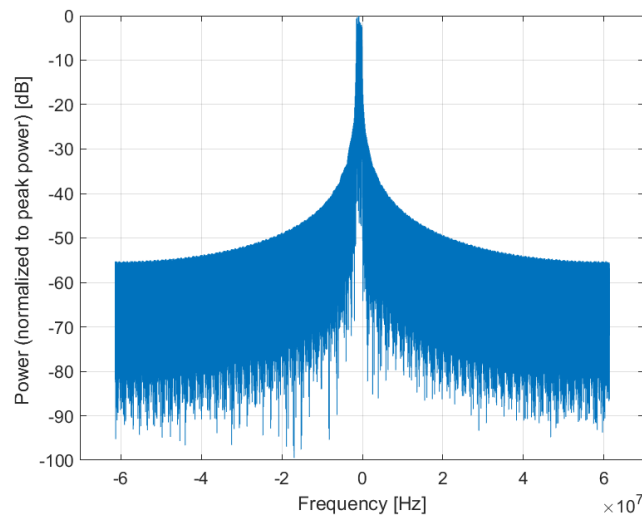
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

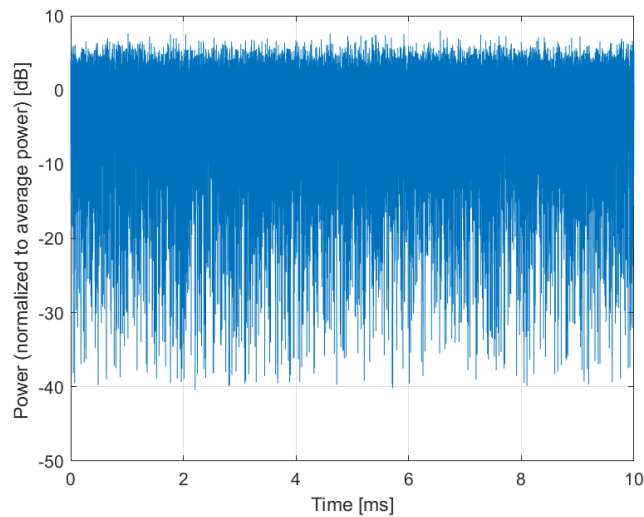
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10874-AAE

PAR: ¹ **6.65 dB**
MIF: ² **-26.14 dB**

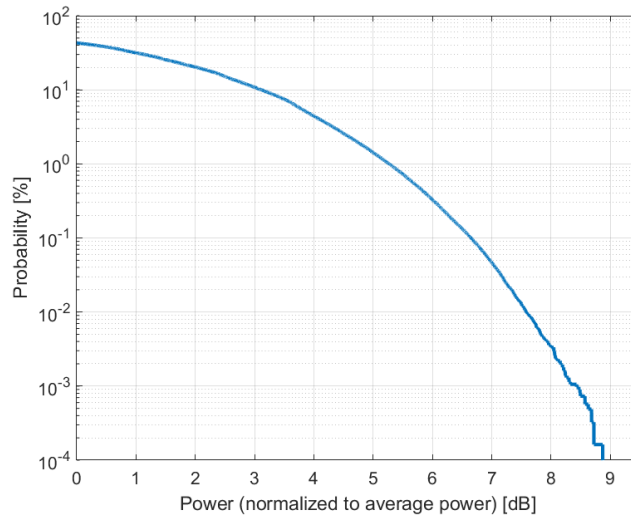
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

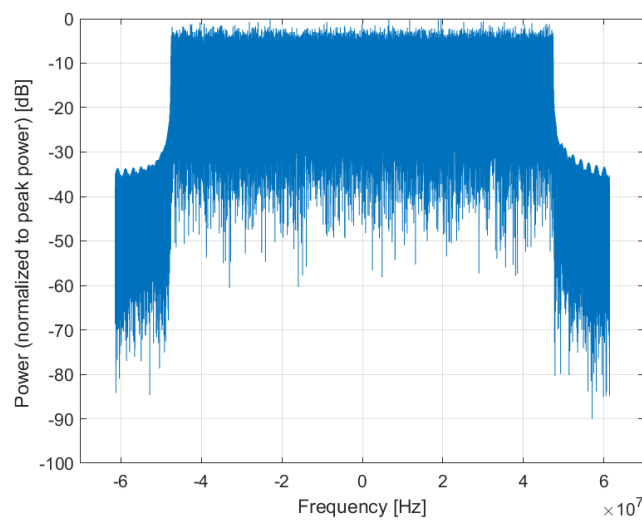
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

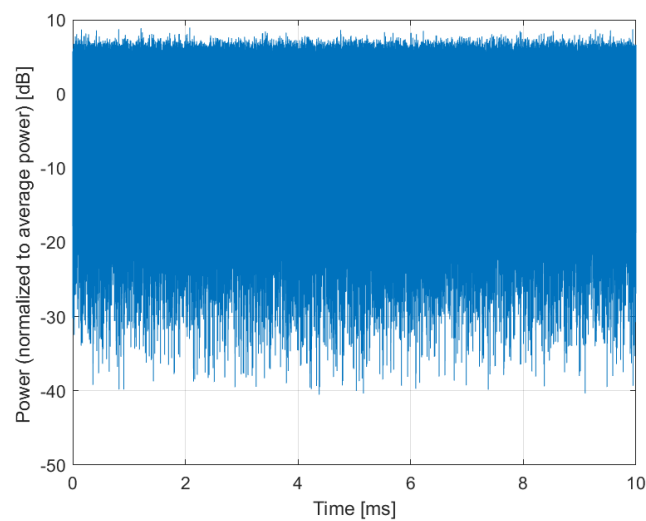
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10875-AAE

PAR: ¹ **7.78 dB**
MIF: ² **-18.27 dB**

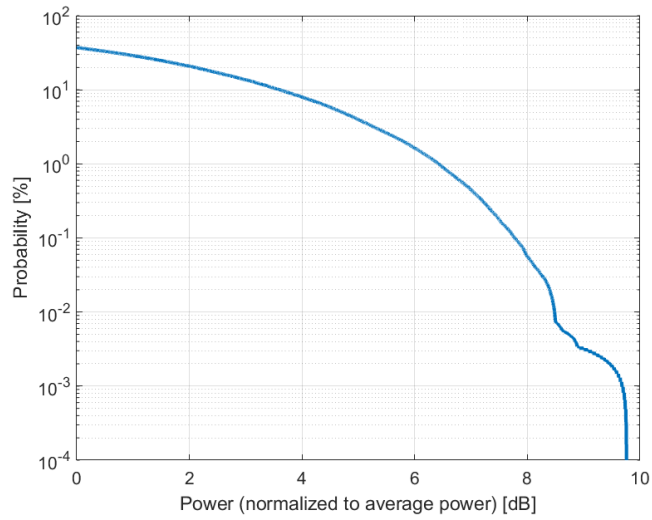
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

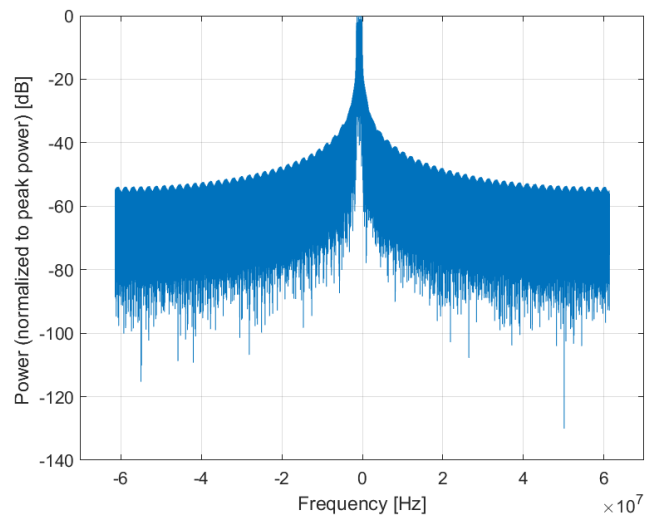
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

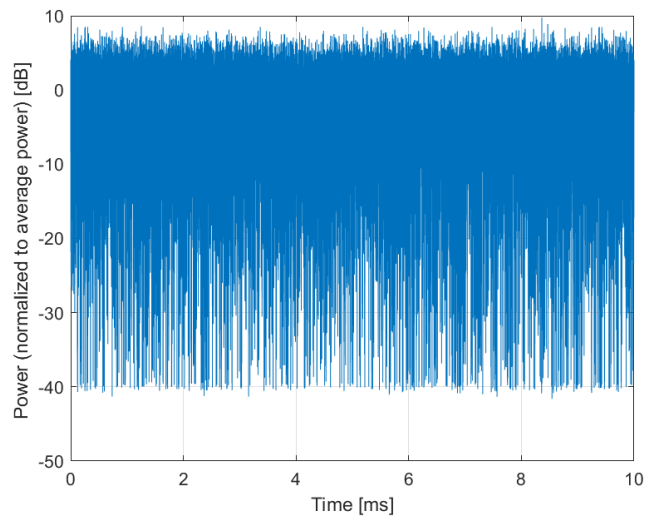
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10876-AAE

PAR: ¹ **8.39 dB**
MIF: ² **-27.31 dB**

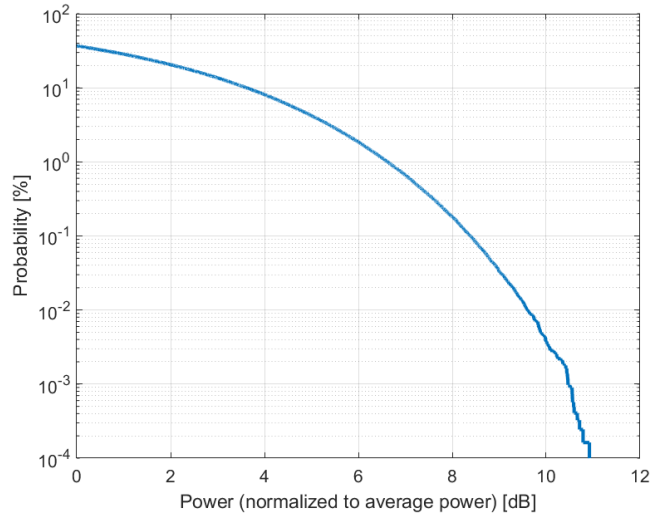
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

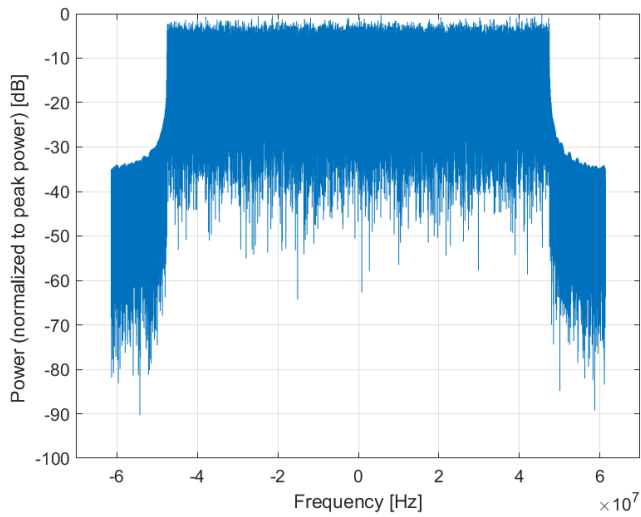
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

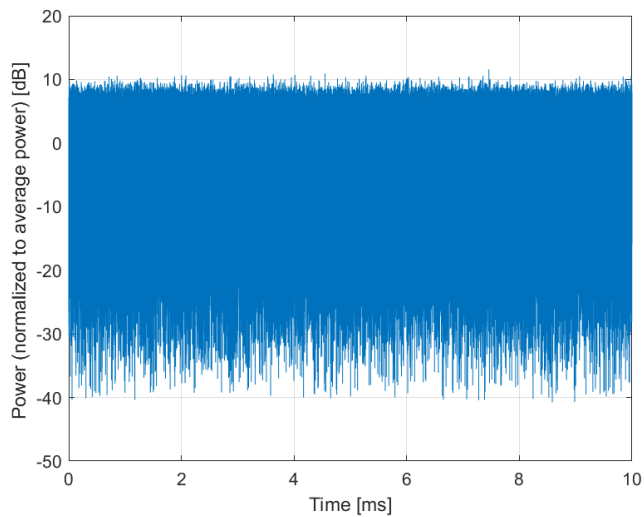
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10877-AAE

PAR: ¹ **7.95 dB**
MIF: ² **-16.50 dB**

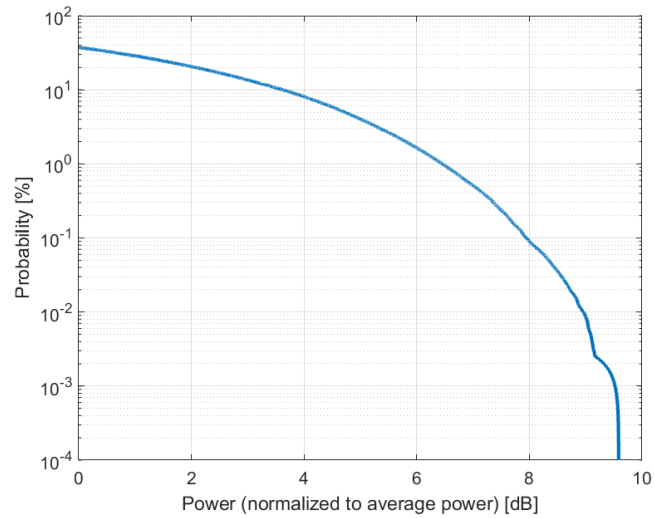
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

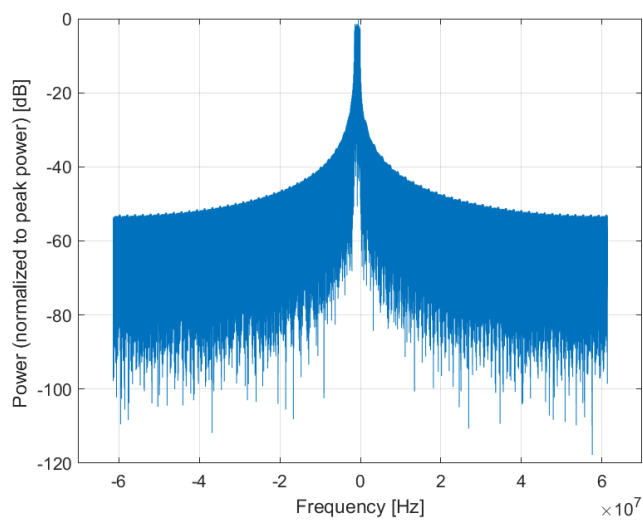
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

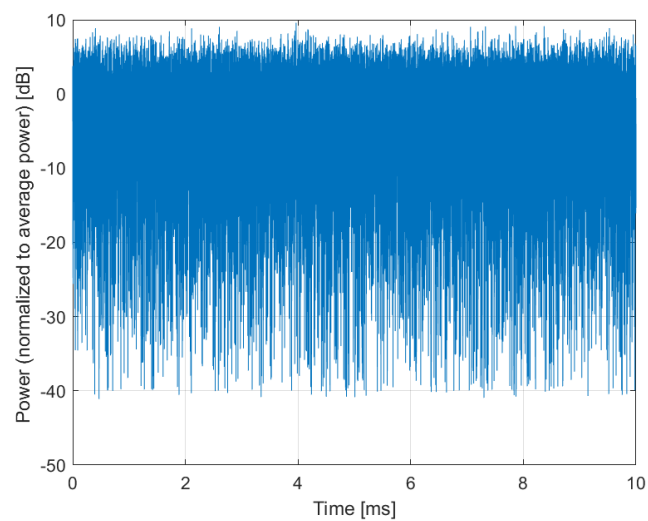
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10878-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-26.23 dB**

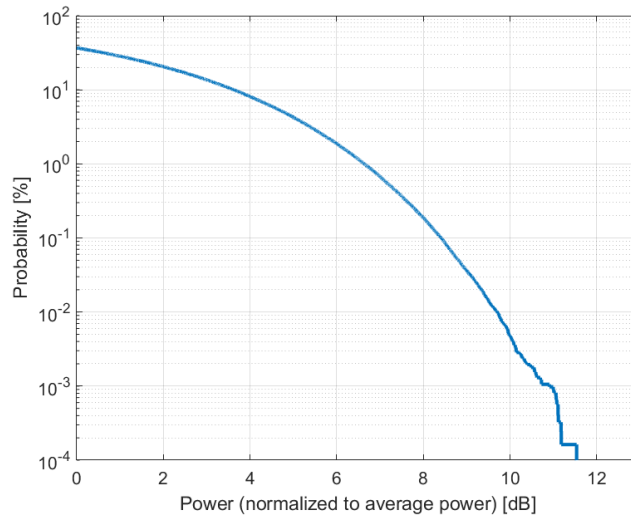
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

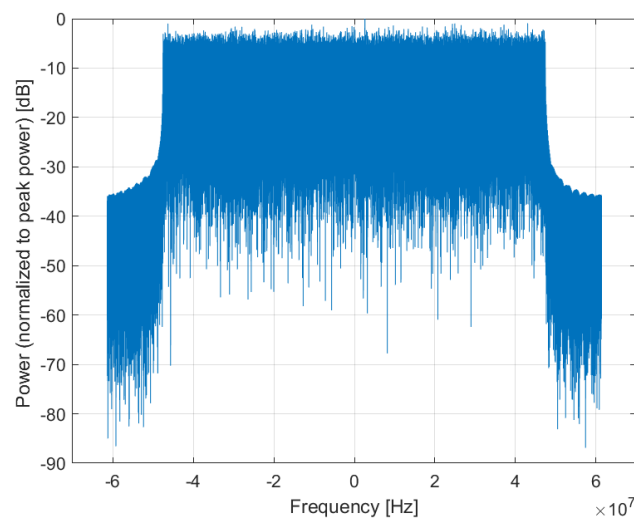
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

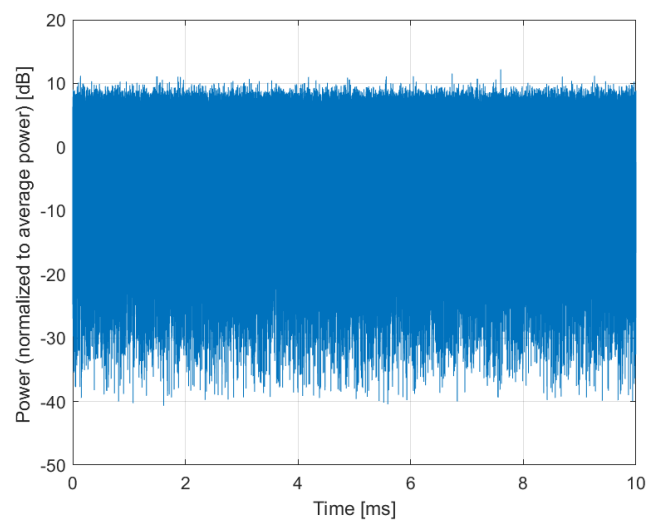
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10879-AAE

PAR: ¹ **8.12 dB**
MIF: ² **-17.11 dB**

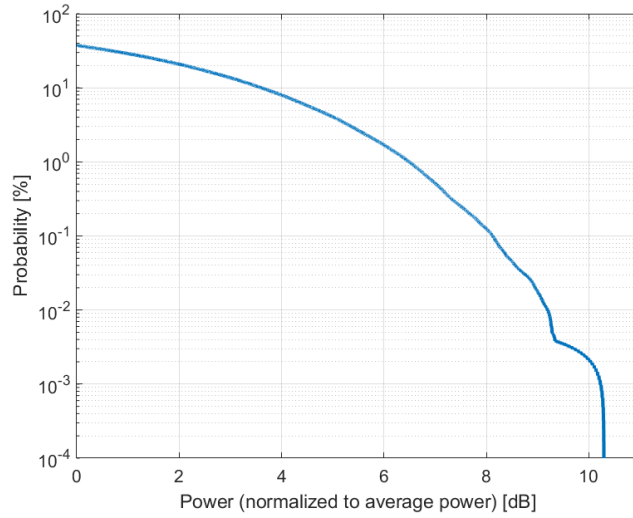
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

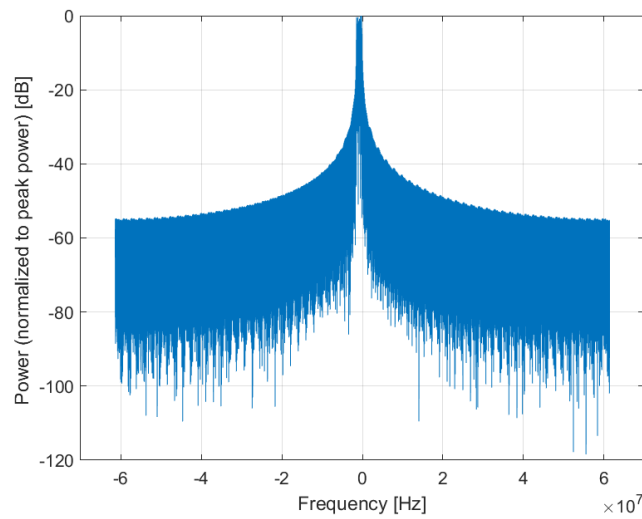
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

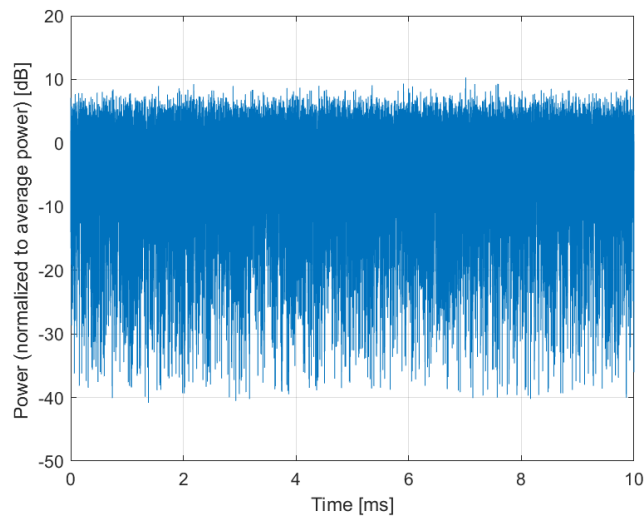
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10880-AAE

PAR: ¹ **8.38 dB**
MIF: ² **-25.83 dB**

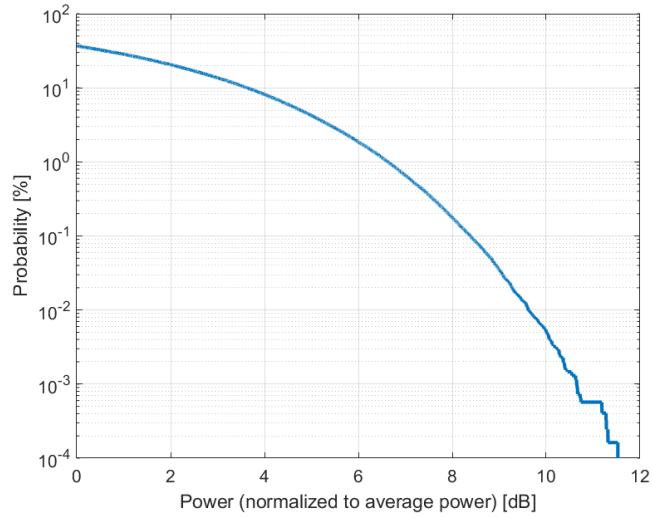
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 66
Slot Format Index: 1
Data Type: PN9

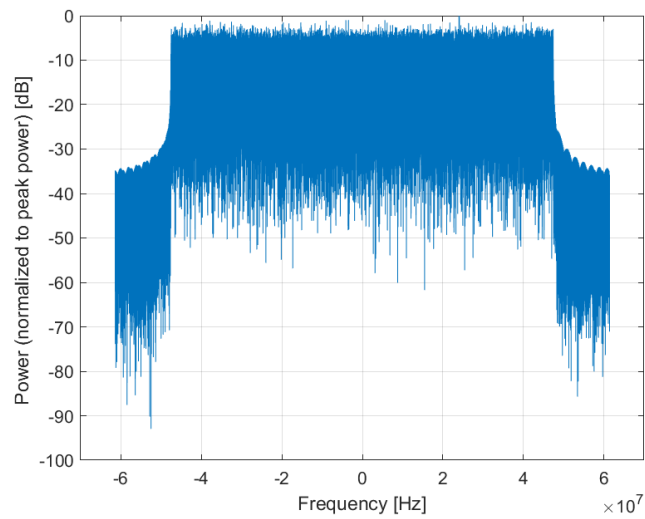
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

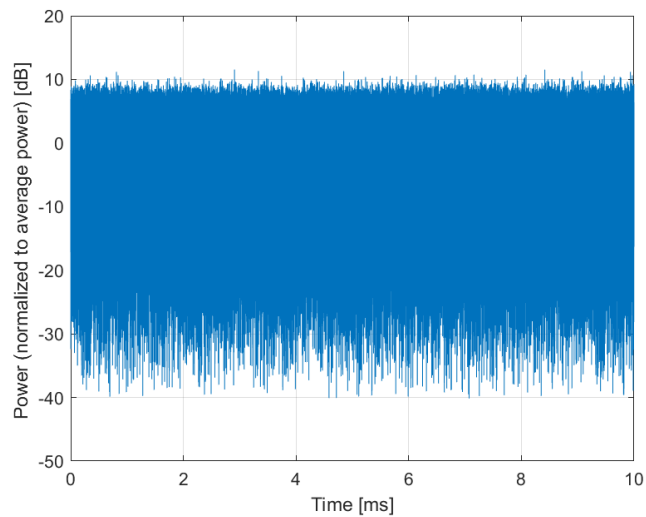
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10881-AAE

PAR: ¹ **5.75 dB**
MIF: ² **-19.60 dB**

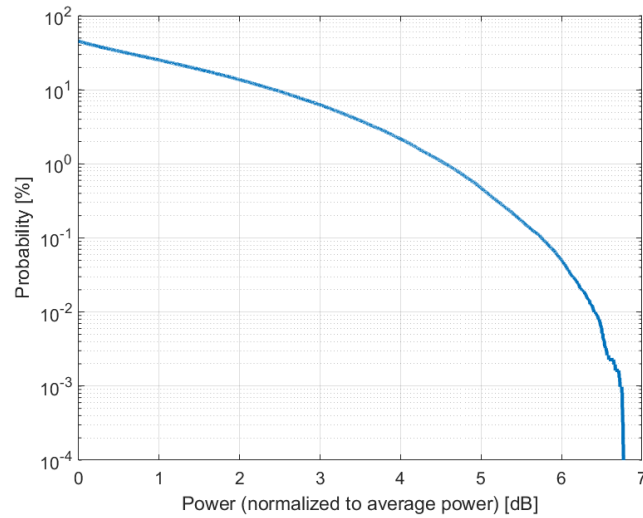
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

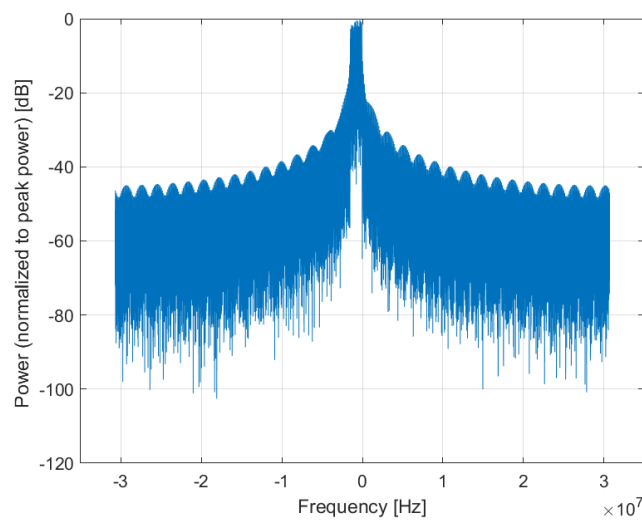
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

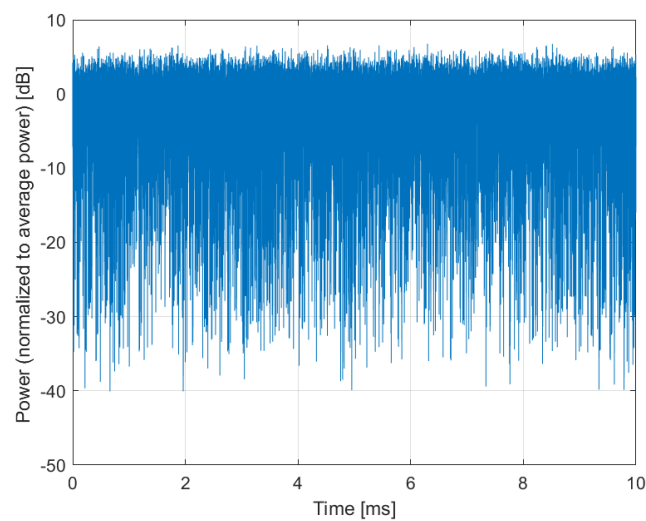
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10882-AAE

PAR: ¹ **5.96 dB**
MIF: ² **-27.79 dB**

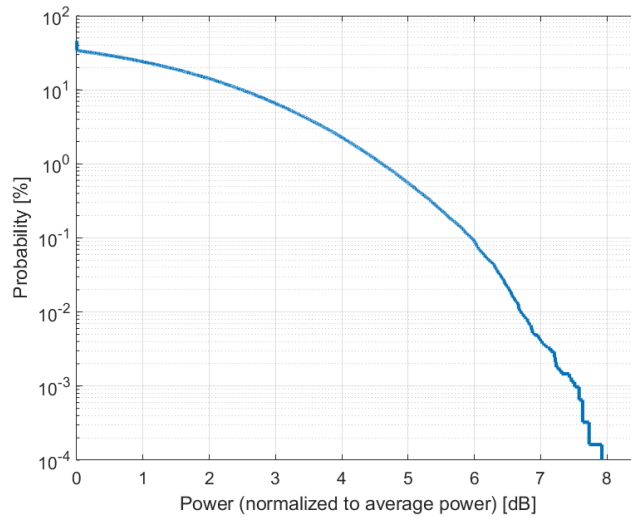
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

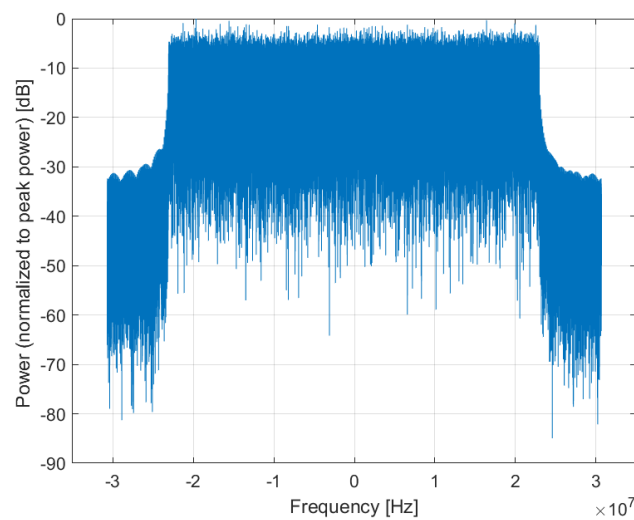
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

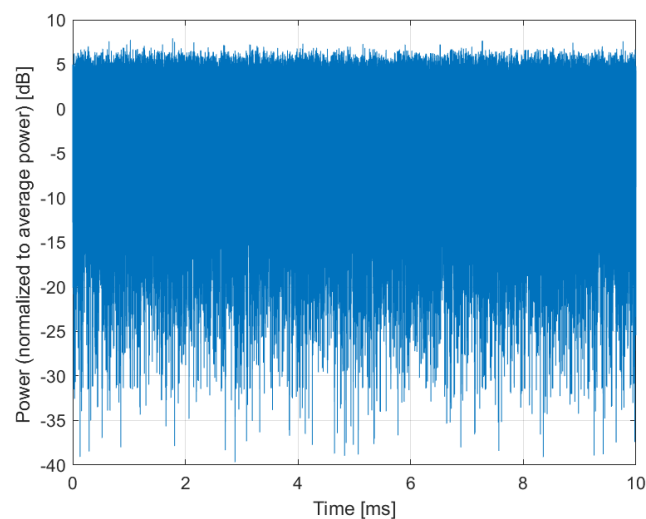
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10883-AAE

PAR: ¹ **6.57 dB**
MIF: ² **-17.02 dB**

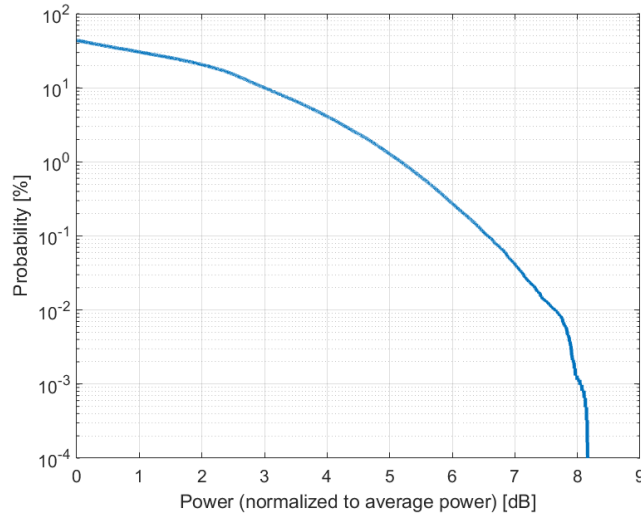
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

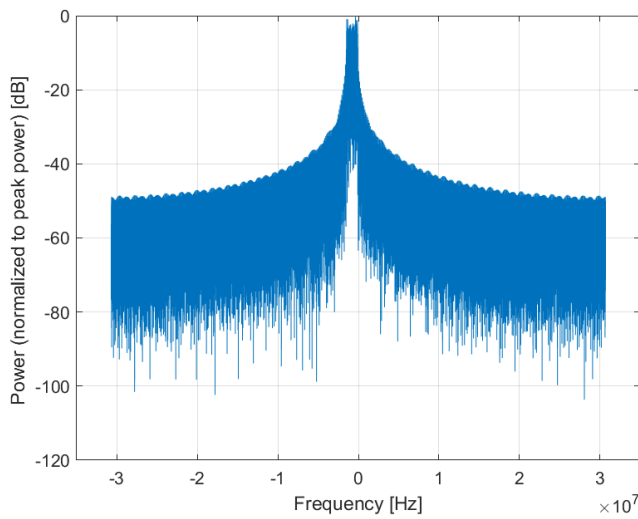
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

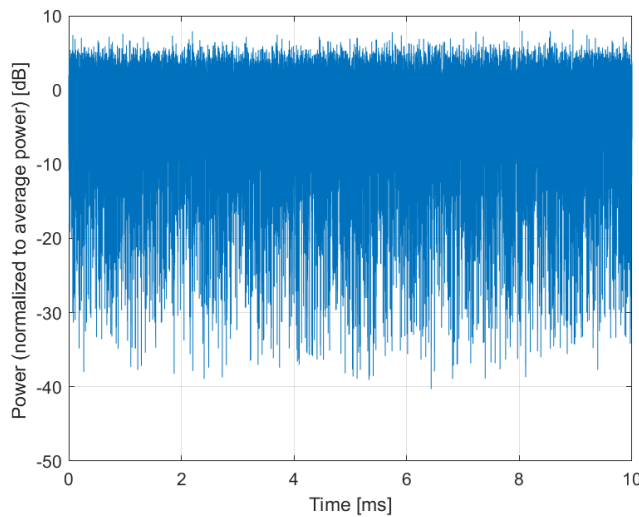
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10884-AAE

PAR: ¹ **6.53 dB**
MIF: ² **-24.59 dB**

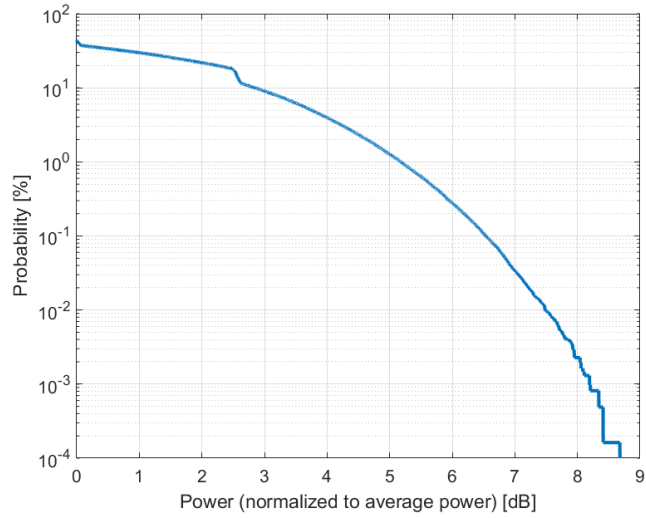
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

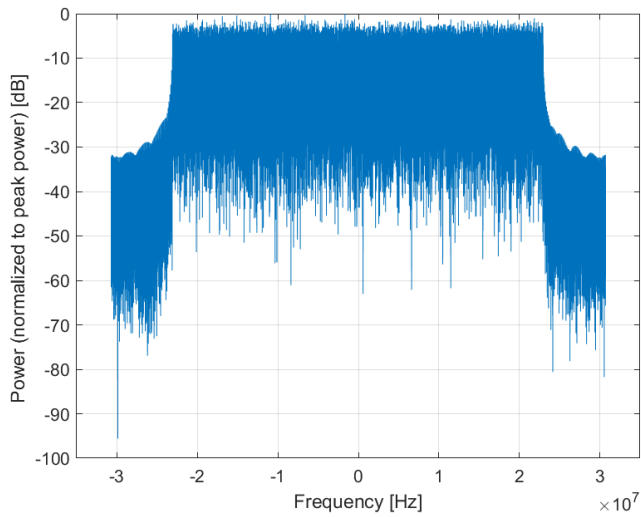
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

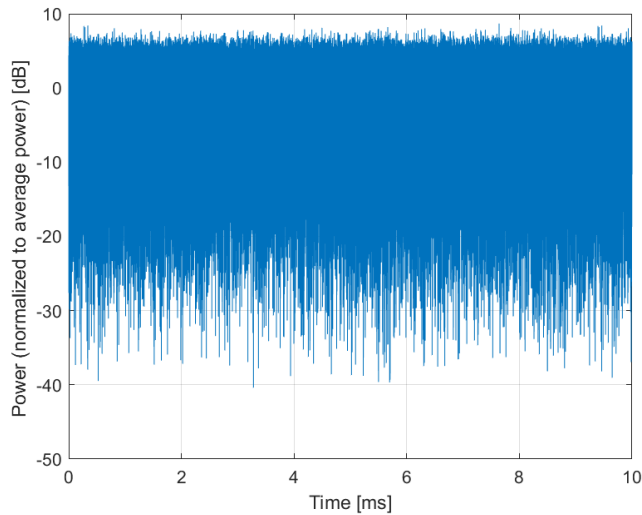
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10885-AAE

PAR: ¹ **6.61 dB**
MIF: ² **-17.01 dB**

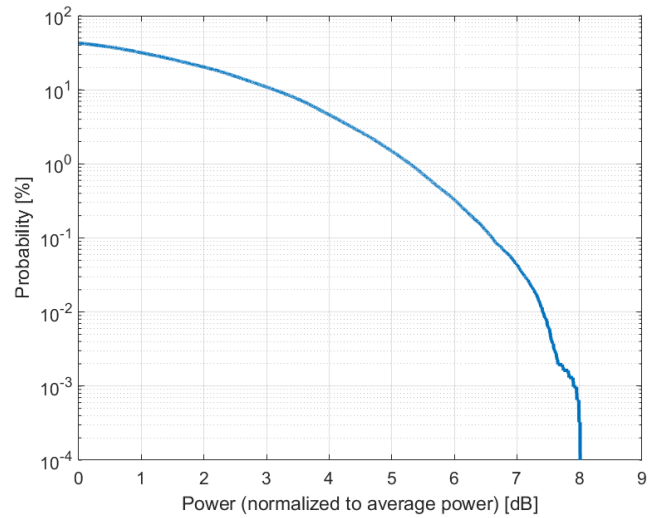
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

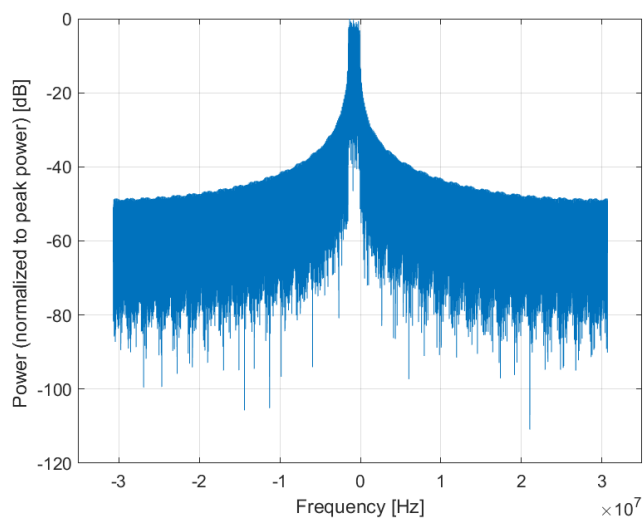
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

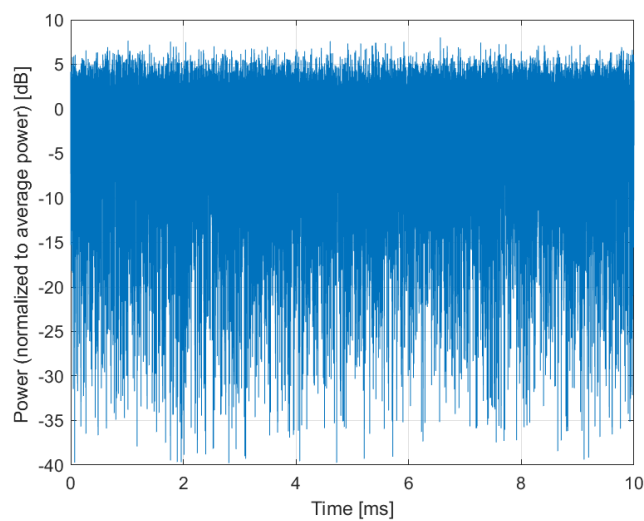
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10886-AAE

PAR: ¹ **6.65 dB**
MIF: ² **-24.53 dB**

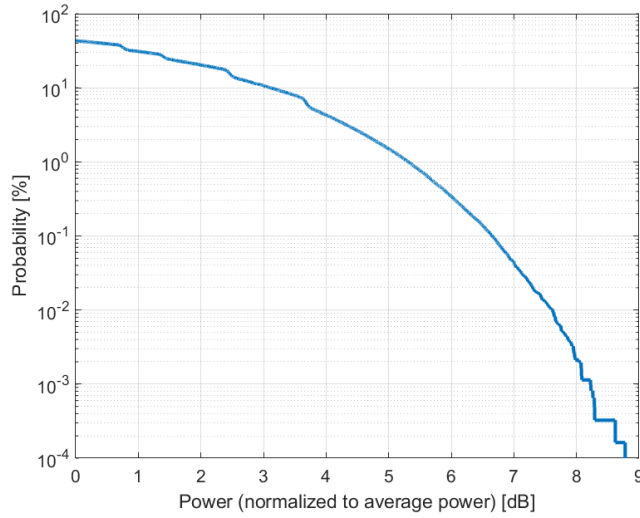
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

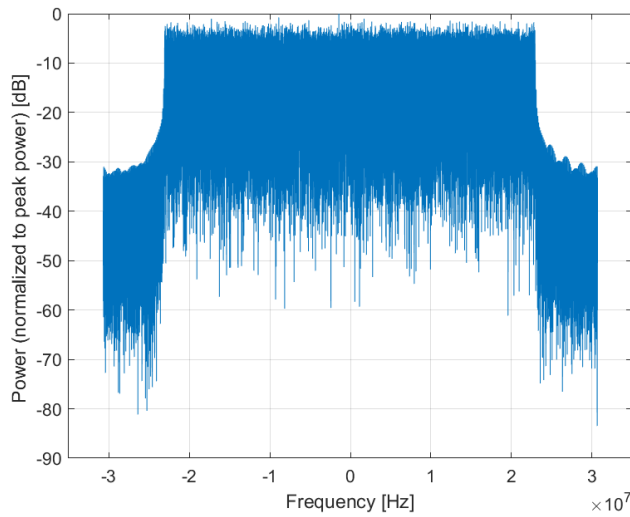
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

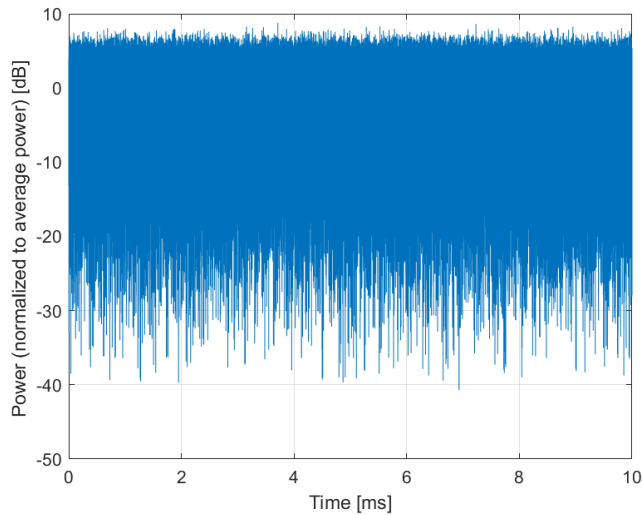
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10887-AAE

PAR: ¹ **7.78 dB**
MIF: ² **-18.54 dB**

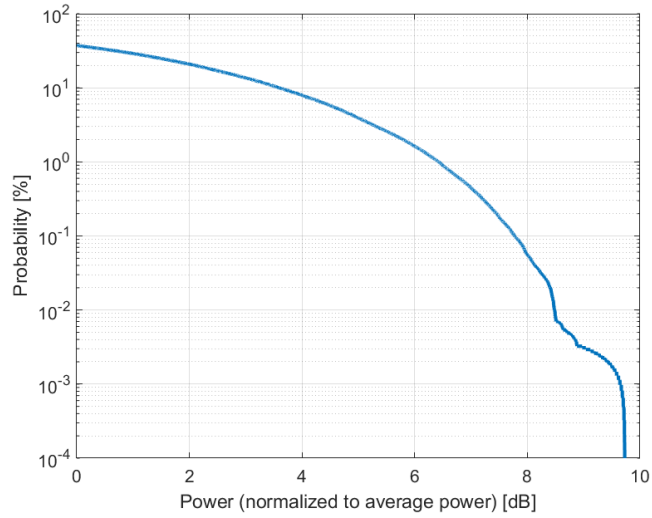
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

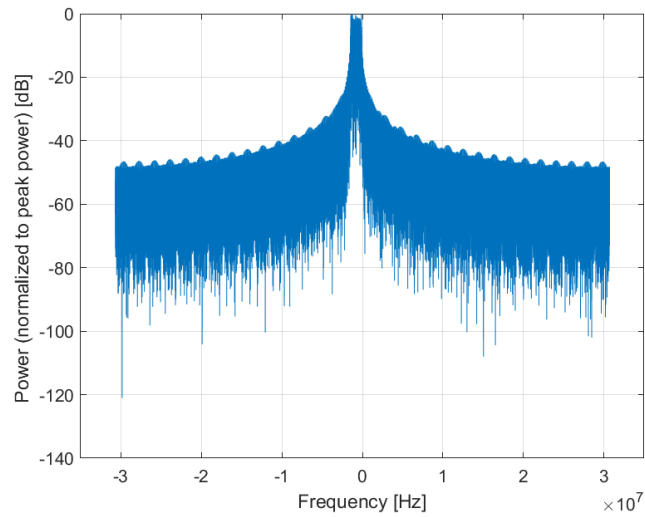
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

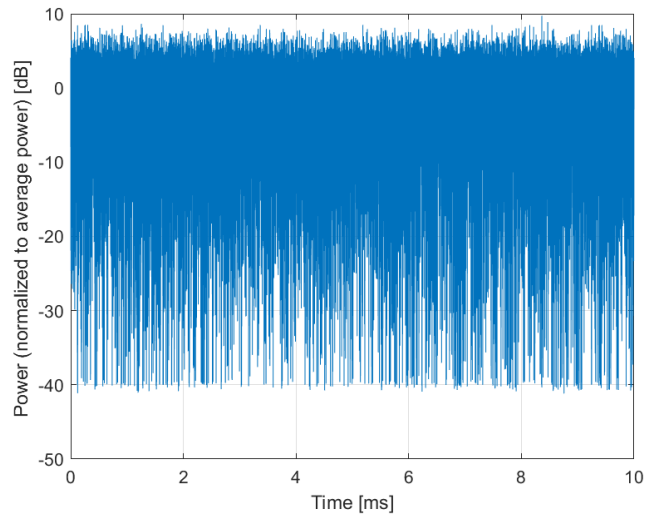
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10888-AAE

PAR: ¹ **8.35 dB**
MIF: ² **-25.78 dB**

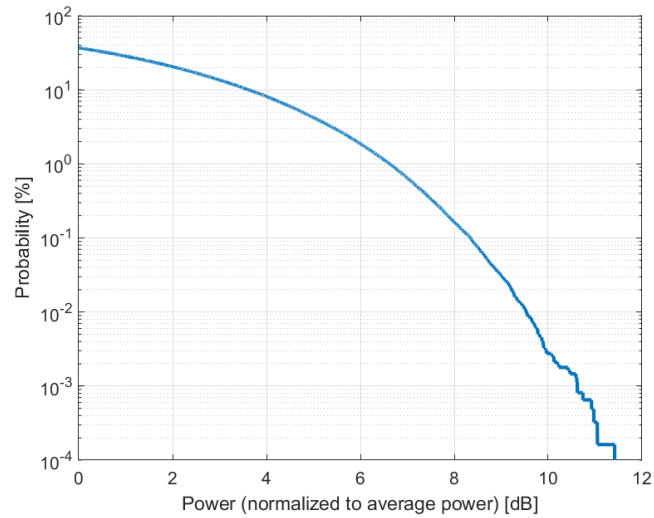
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

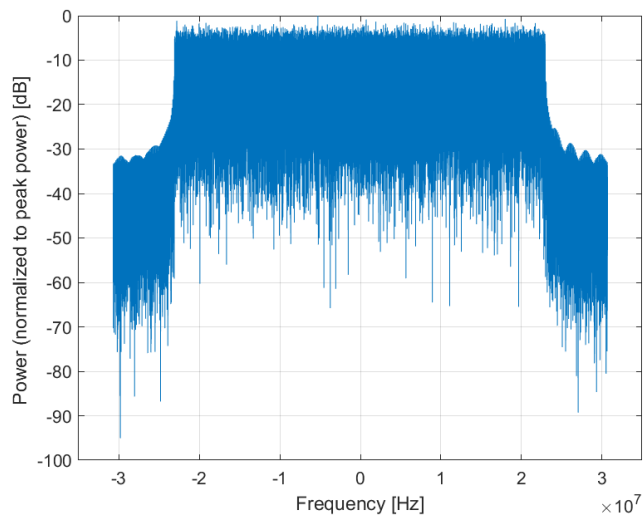
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

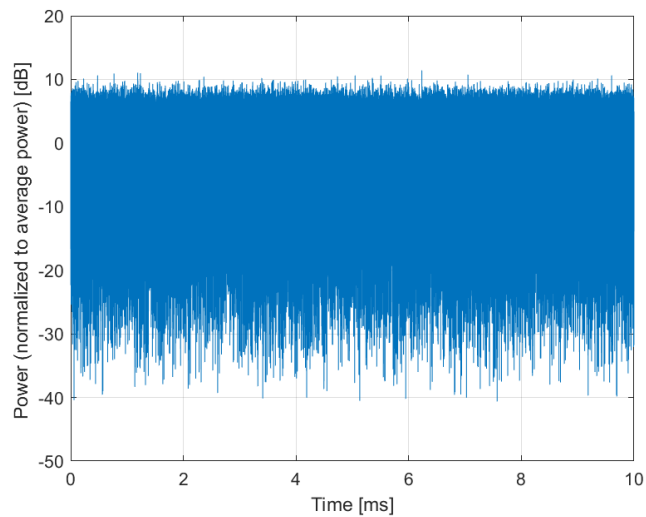
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10889-AAE

PAR: ¹ **8.02 dB**
MIF: ² **-16.37 dB**

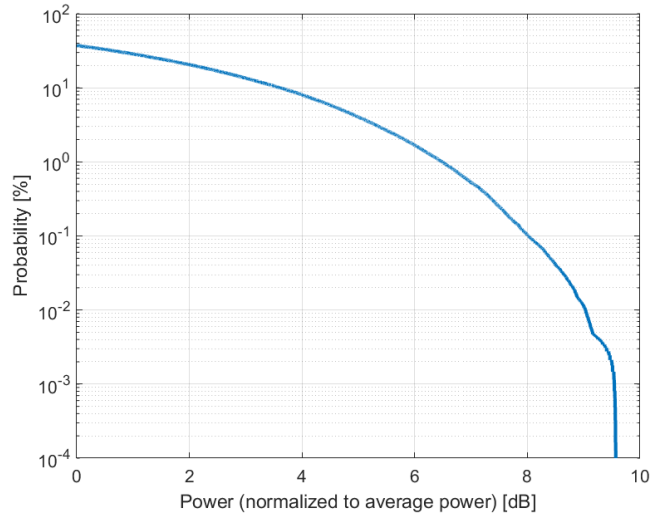
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

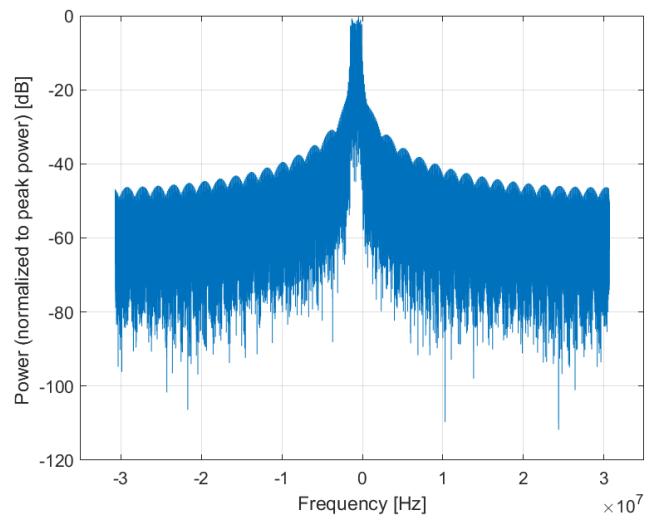
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

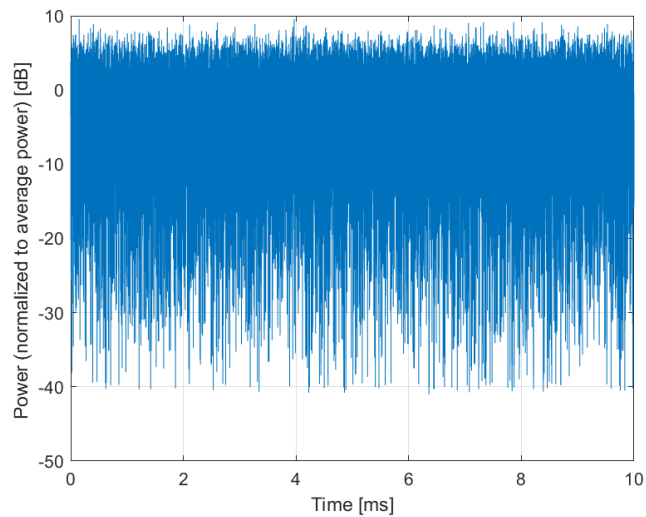
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10890-AAE

PAR: ¹ **8.40 dB**
MIF: ² **-23.93 dB**

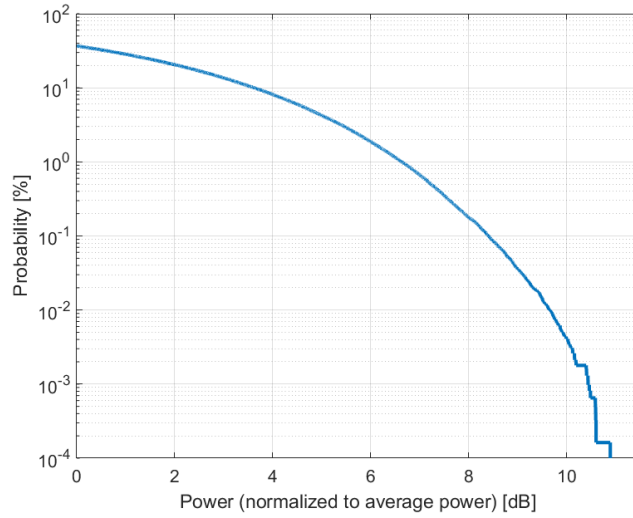
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

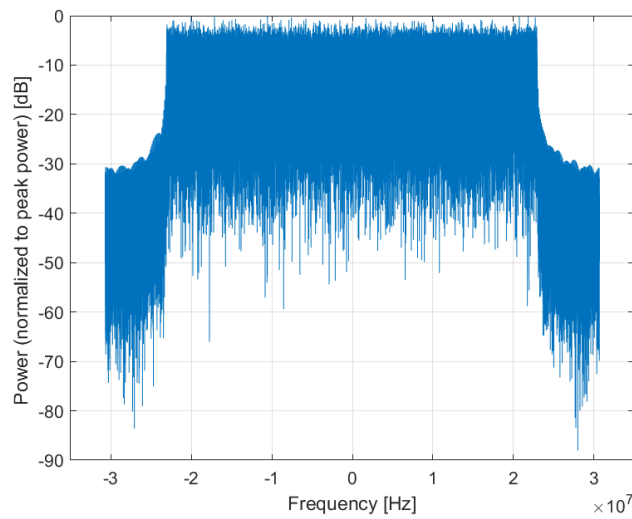
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

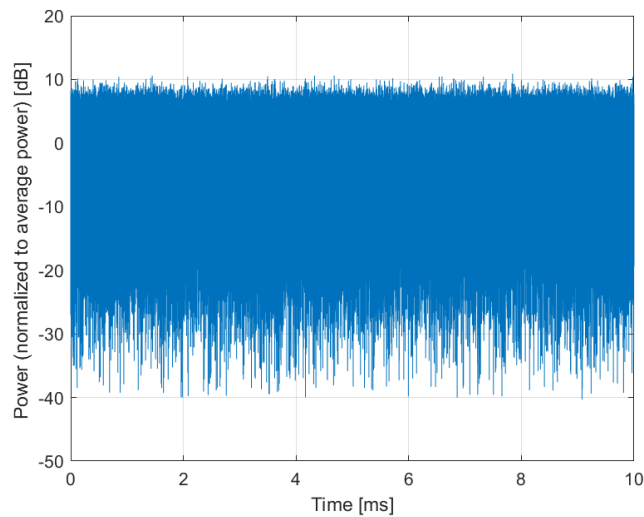
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10891-AAE

PAR: ¹ **8.13 dB**
MIF: ² **-17.02 dB**

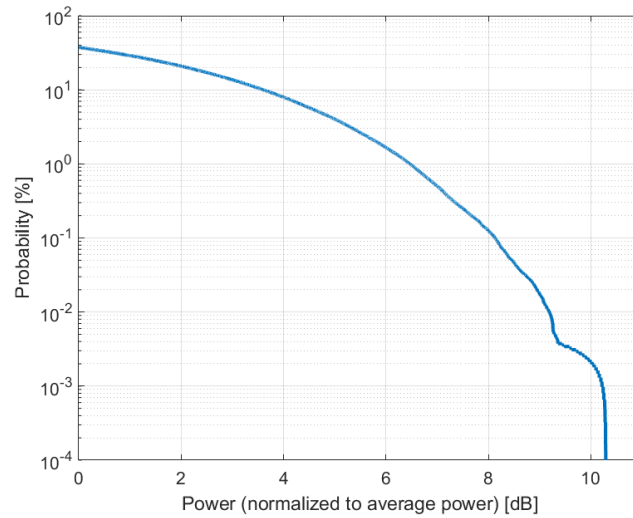
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

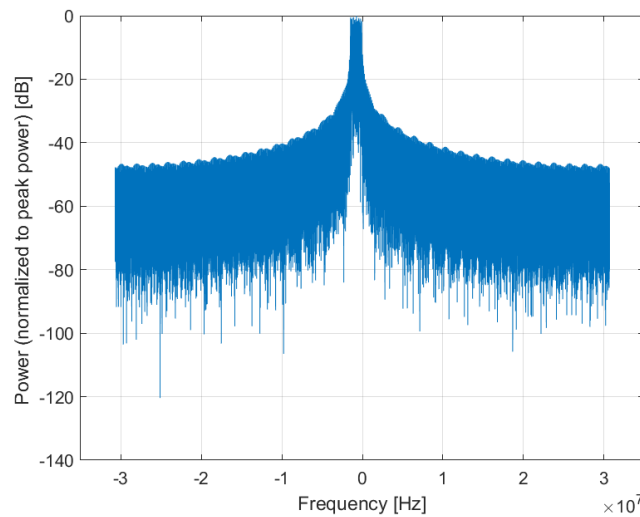
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

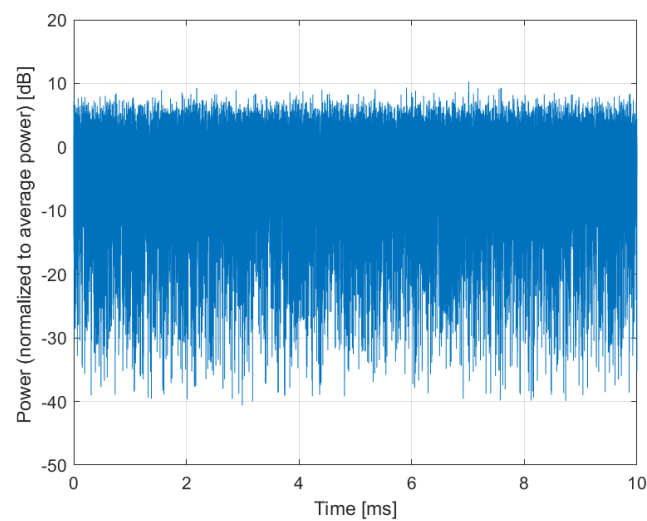
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10892-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-23.75 dB**

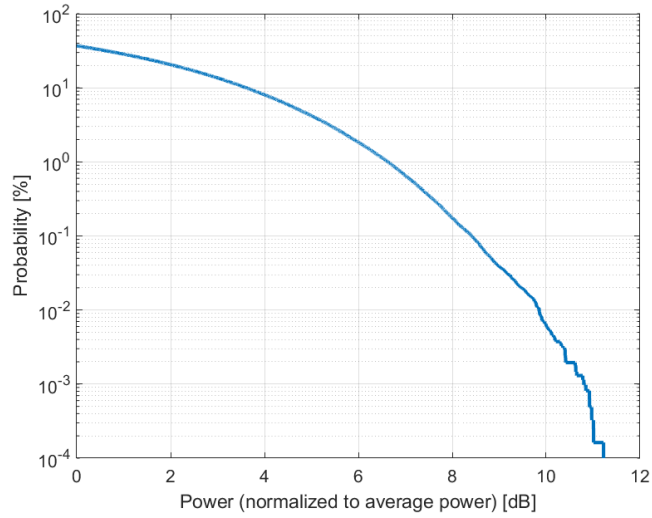
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

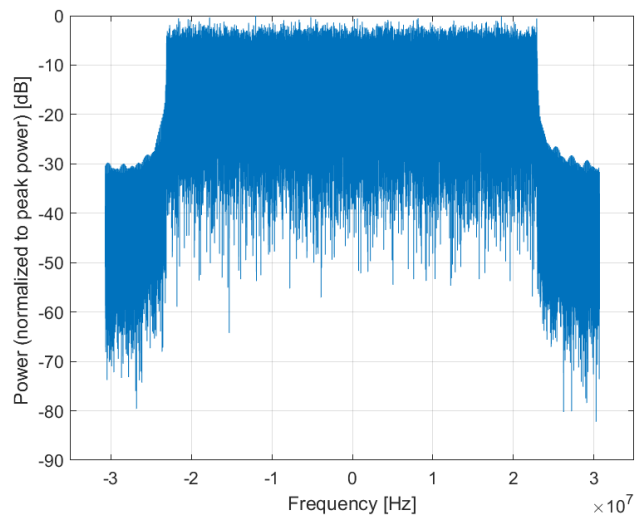
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

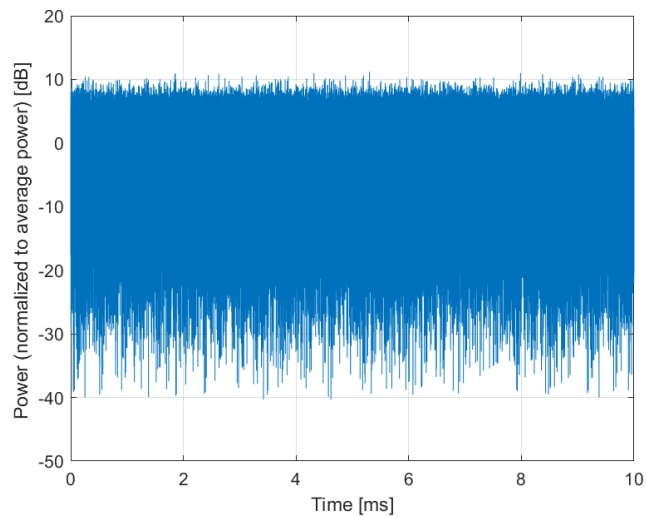
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MITS (3pi Sinc, 400ms, 3ms)**

Group: MRI
UID: 10893-AAB

PAR: ¹ **26.73 dB**
MIF: ² **19.99 dB**

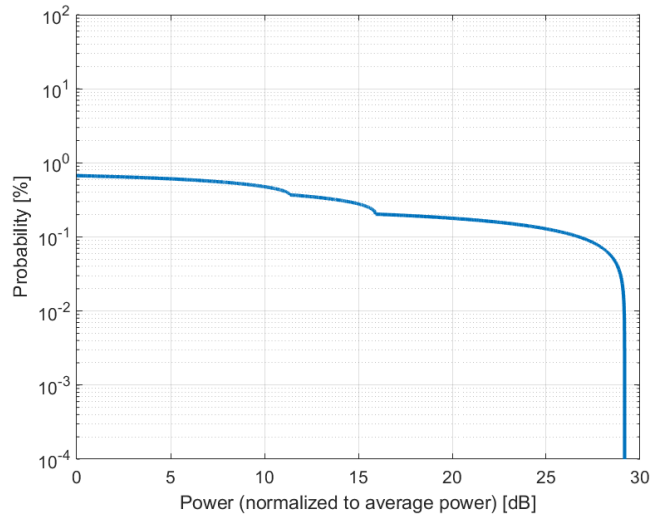
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Calibration Sequence for Medical Implant Test System (MITS)
Pulse Shape: Sinc +/- 3 Pi
Repetition Rate: 2.5 Hz
Duty Cycle: 0.75%

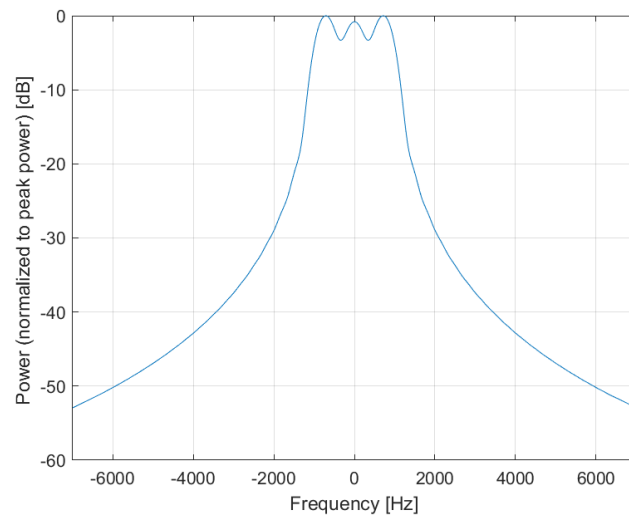
Bandwidth: 0.0 MHz
Integration Time: 400.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

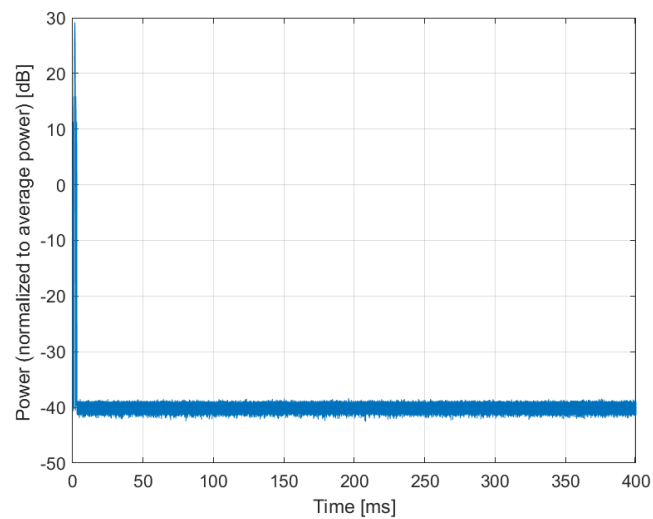
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MITS (6pi Sinc, 3.69ms, 0.8ms)**

Group: MRI
UID: 10894-AAA

PAR: ¹ **17.50 dB**
MIF: ² **6.16 dB**

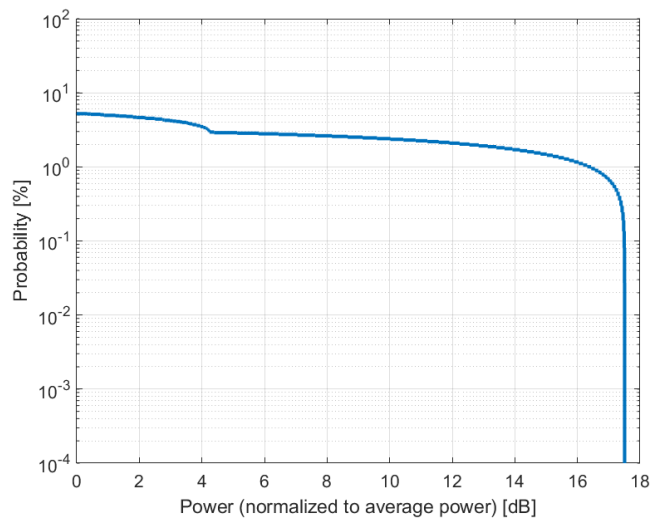
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Calibration Sequence for Medical Implant Test System (MITS)
Pulse Shape: Sinc +/- 6 Pi
Repetition Rate: 271 Hz
Duty Cycle: 21.7%

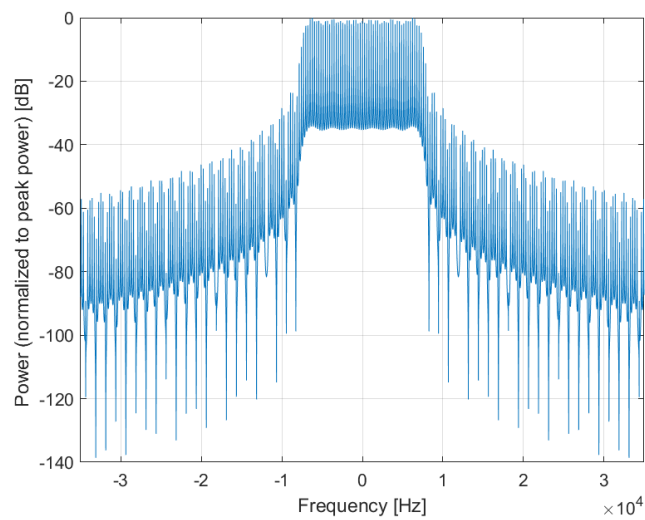
Bandwidth: 0.1 MHz
Integration Time: 3.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

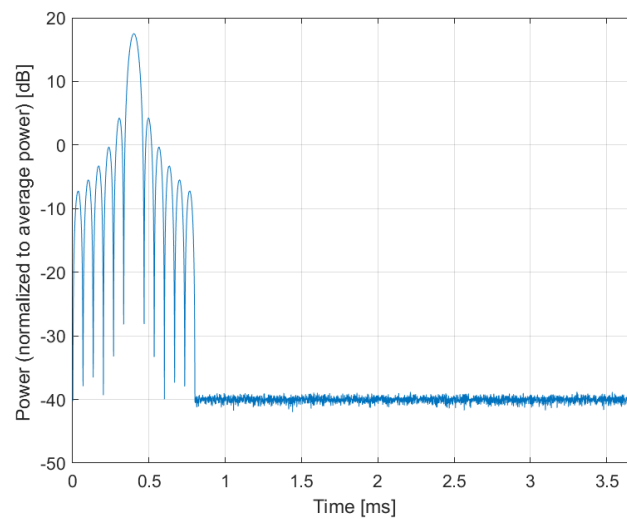
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MITS (3pi Sinc, 100ms, 2ms)**

Group: MRI
UID: 10895-AAA

PAR: ¹ **24.58 dB**
MIF: ² **16.38 dB**

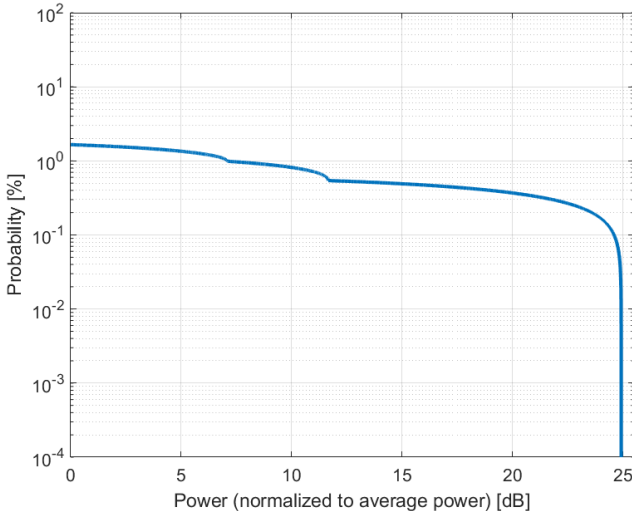
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Calibration Sequence for Medical Implant Test System (MITS)
Pulse Shape: Sinc +/- 3 Pi
Repetition Rate: 10 Hz
Duty Cycle: 2%

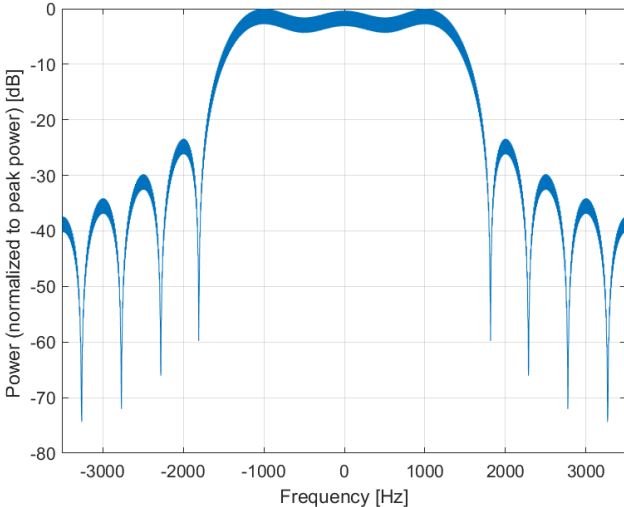
Bandwidth: 0.0 MHz
Integration Time: 100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

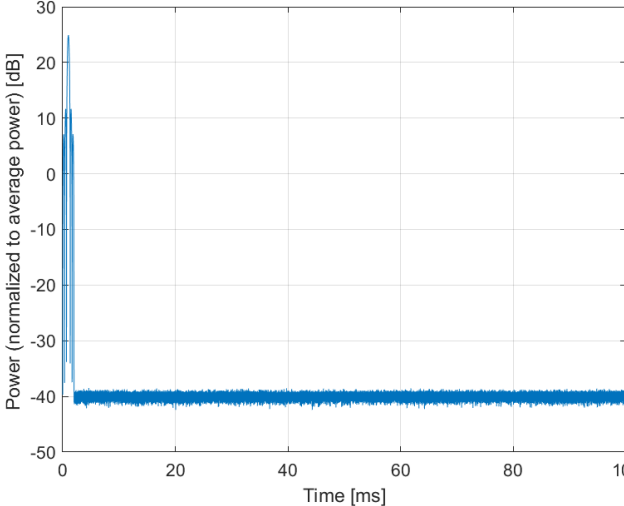
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (Square, 2ms, 0.8ms)**

Group: MRI
UID: 10896-AAA

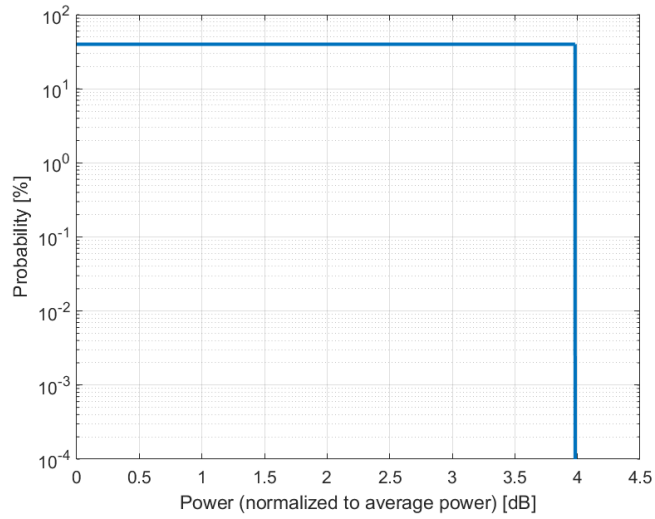
PAR: ¹ **3.98 dB**
MIF: ² **-0.27 dB**

Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

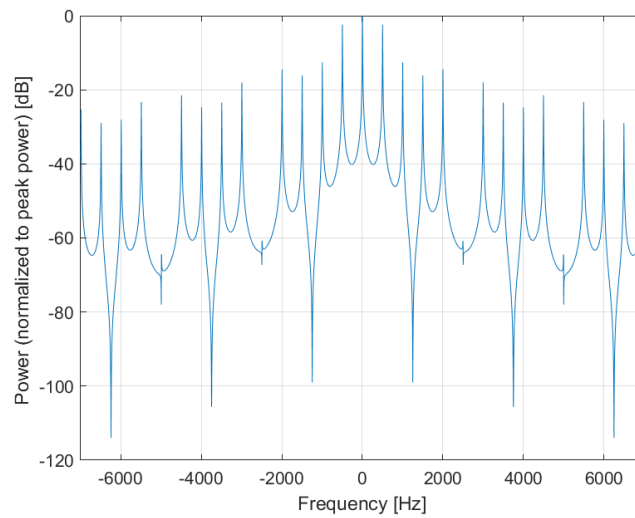
Detailed Specification: Custom Calibration Sequence
Pulse Shape: Rectangular
Repetition Rate: 500 Hz
Duty Cycle: 40%

Bandwidth: 0.0 MHz
Integration Time: 2.0 ms

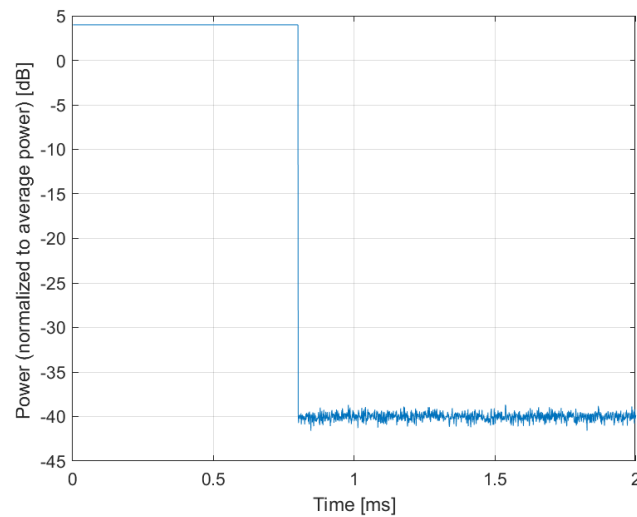
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10897-AAE

PAR: ¹ **5.66 dB**
MIF: ² **-16.67 dB**

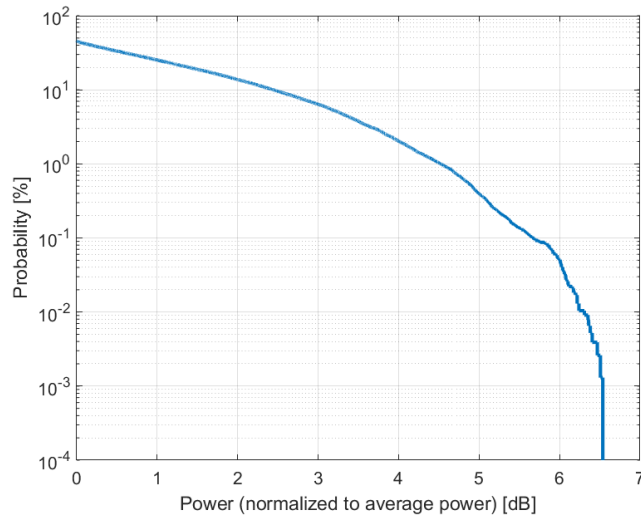
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

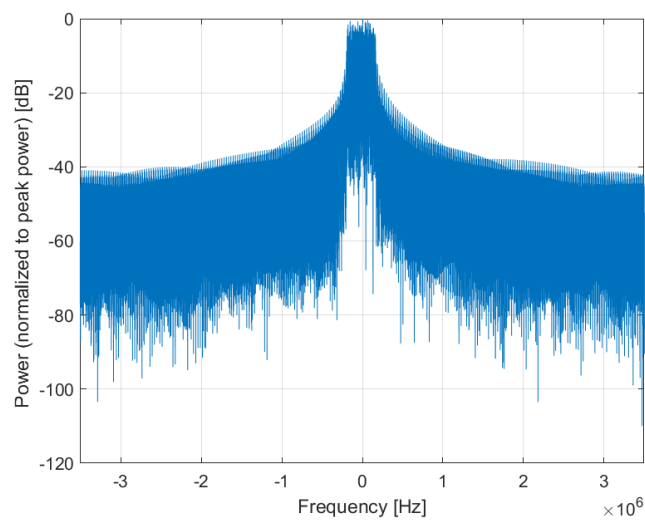
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

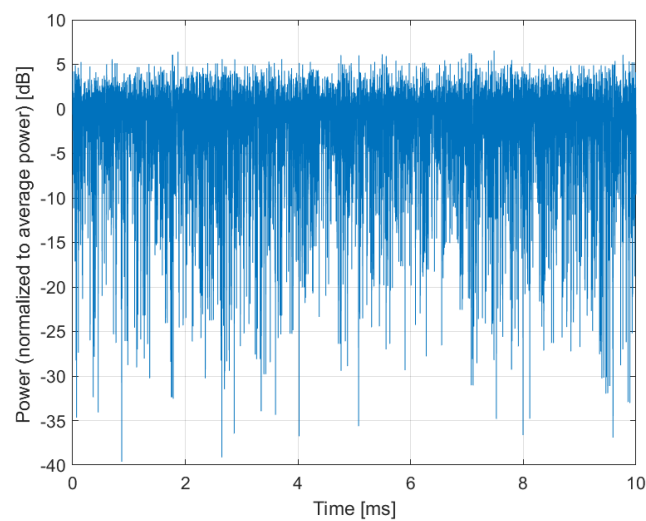
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10898-AAC

PAR: ¹ **5.67 dB**
MIF: ² **-16.68 dB**

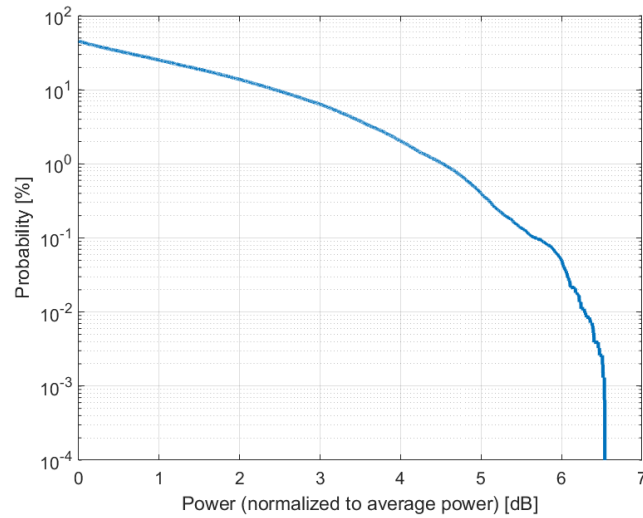
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

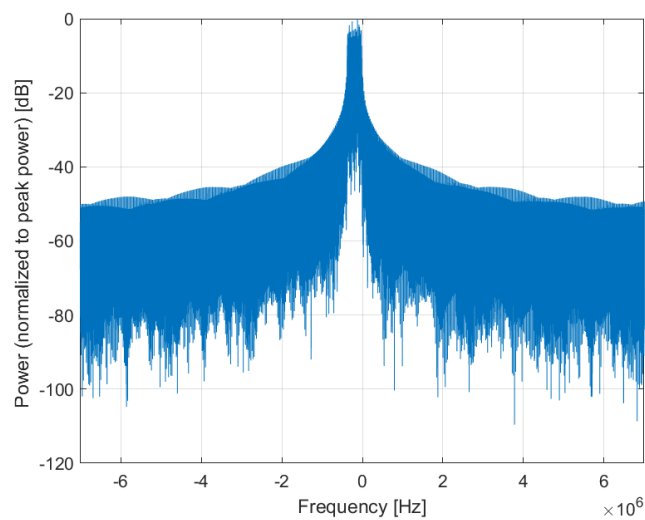
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

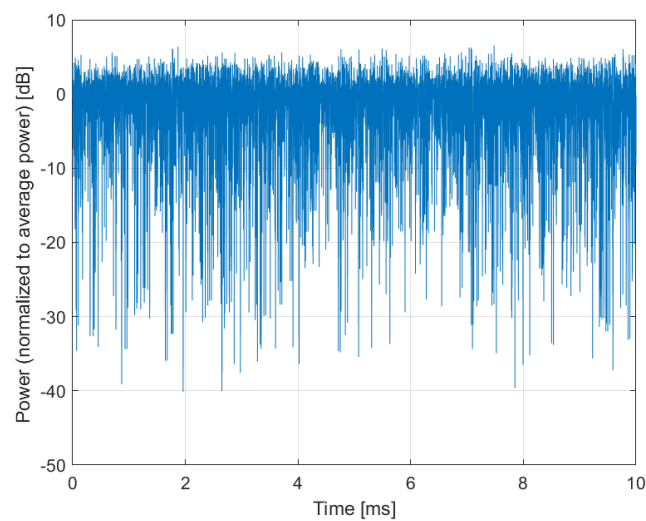
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10899-AAB

PAR: ¹ **5.67 dB**
MIF: ² **-16.68 dB**

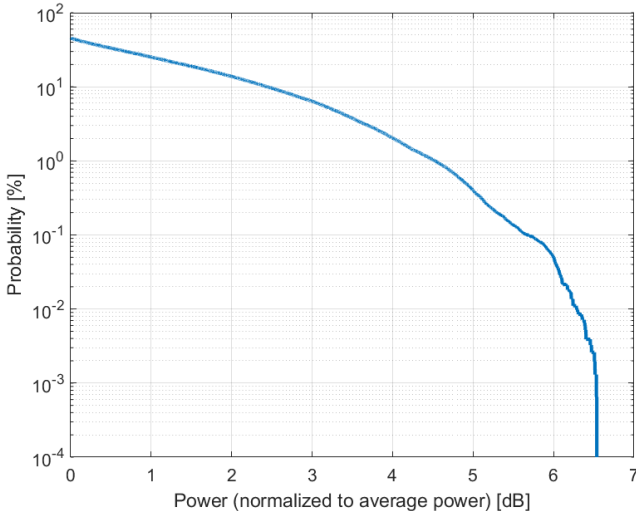
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

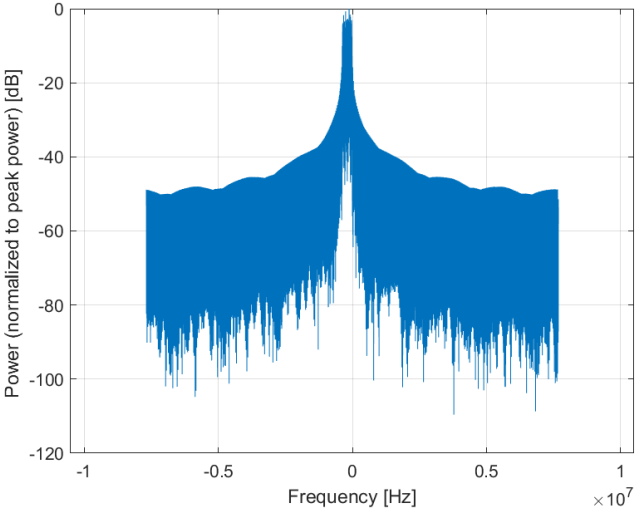
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

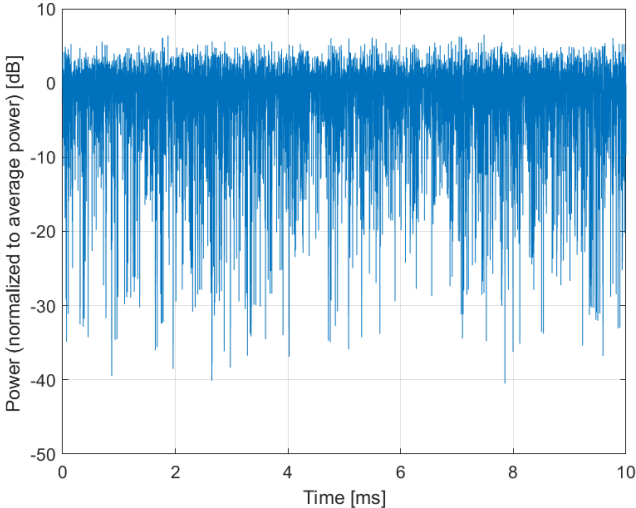
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10900-AAC

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

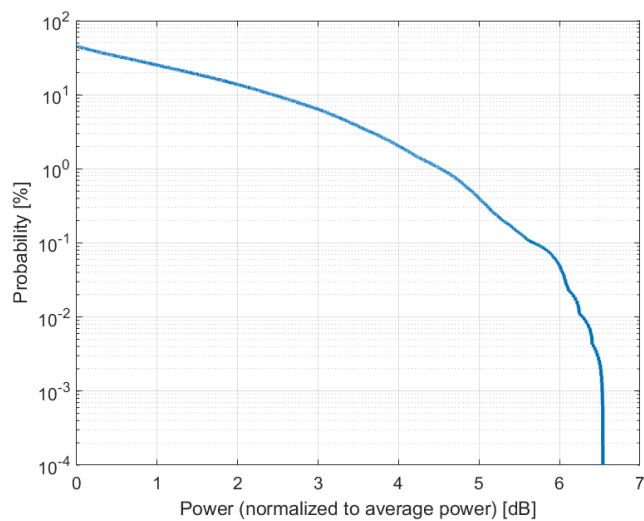
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

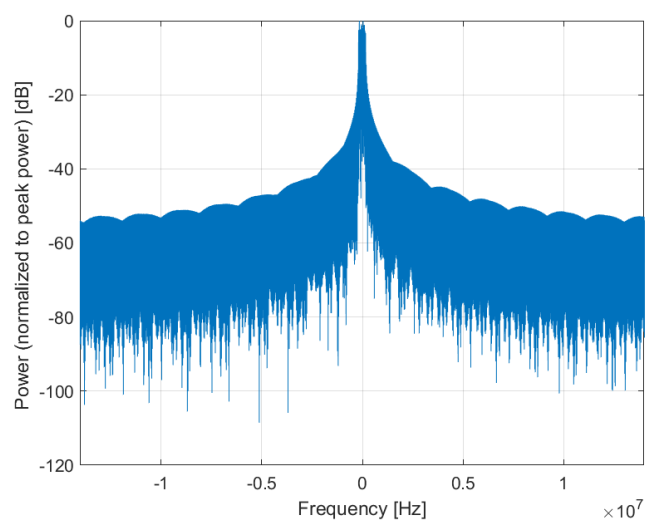
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

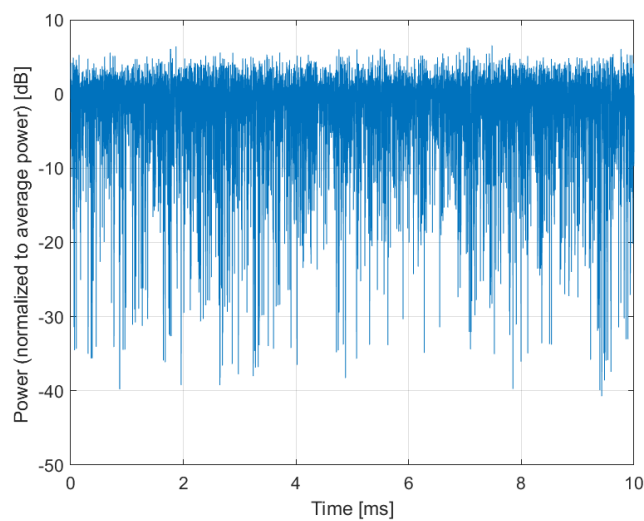
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10901-AAB

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

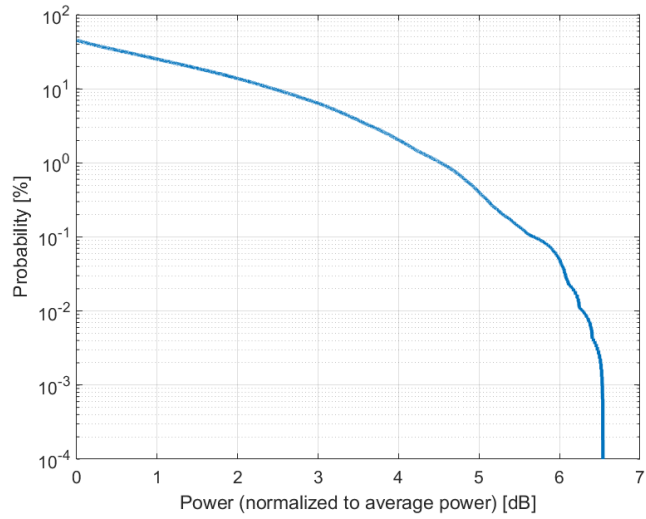
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

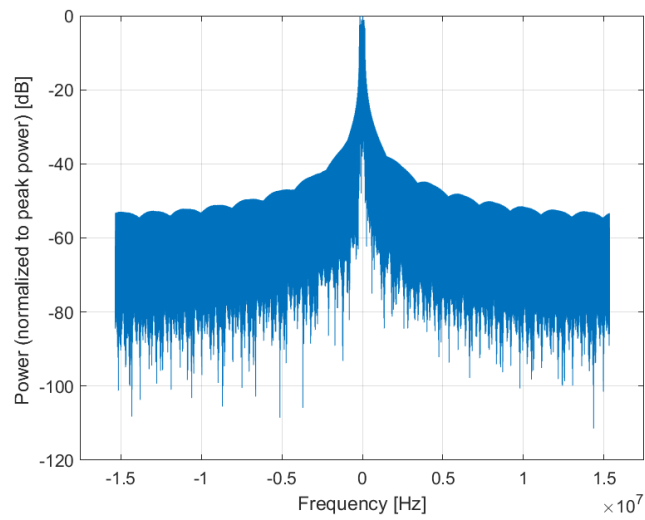
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

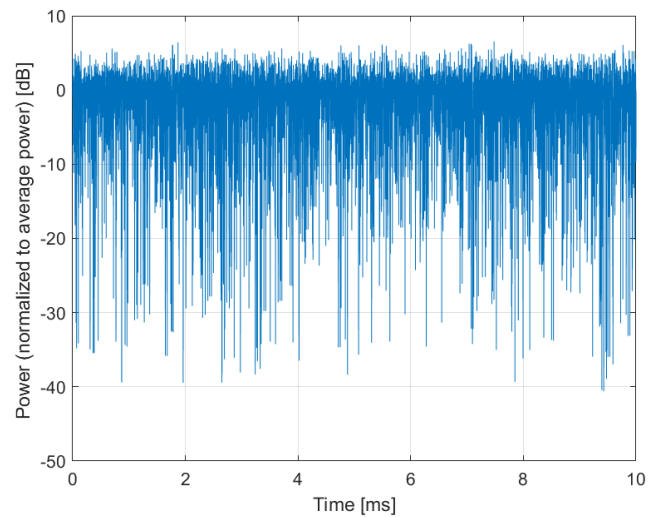
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10902-AAC

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

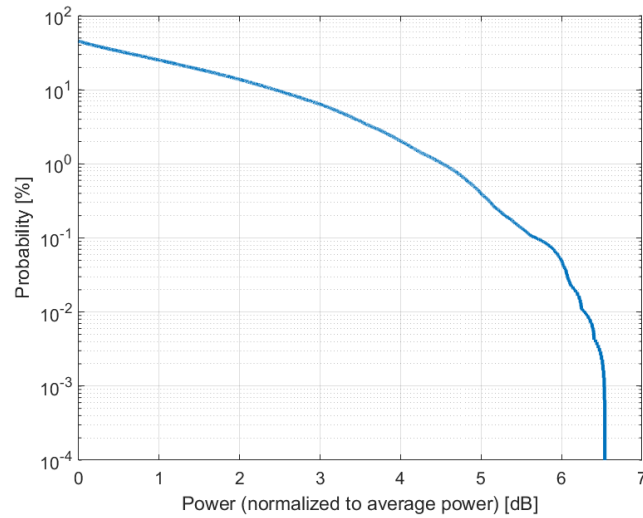
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

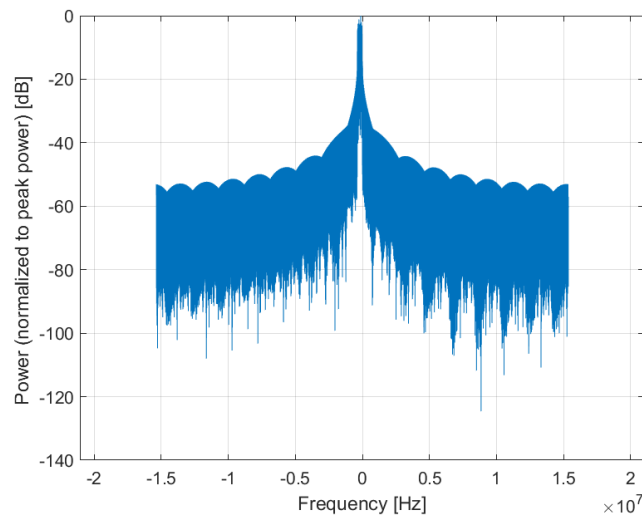
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

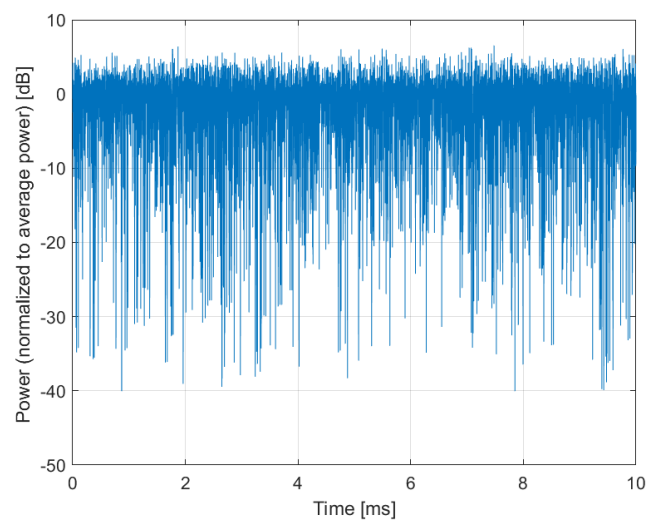
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10903-AAD

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

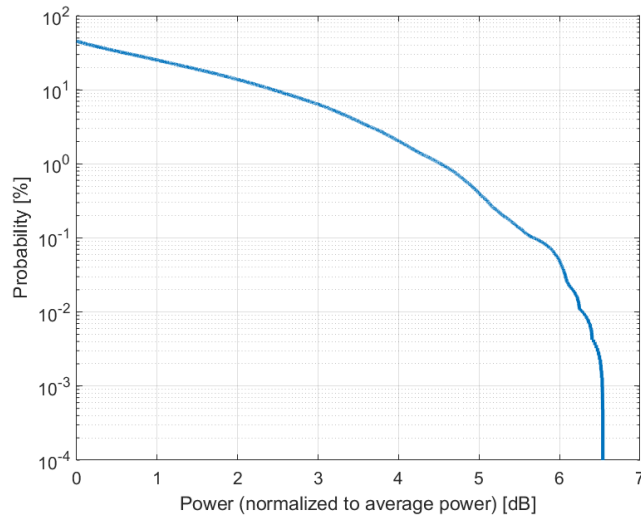
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

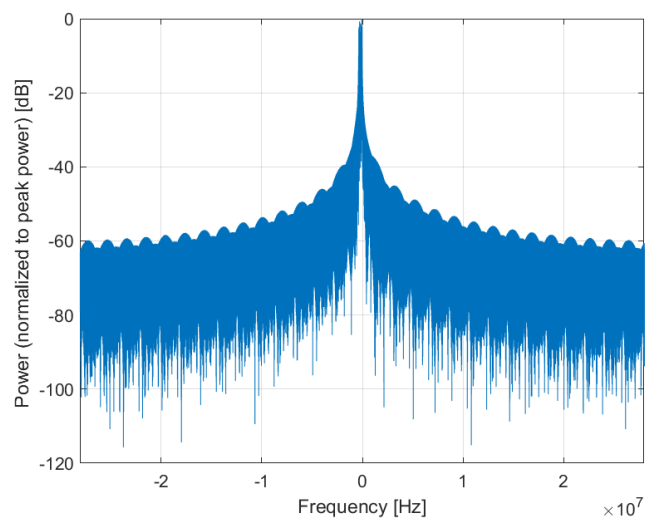
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

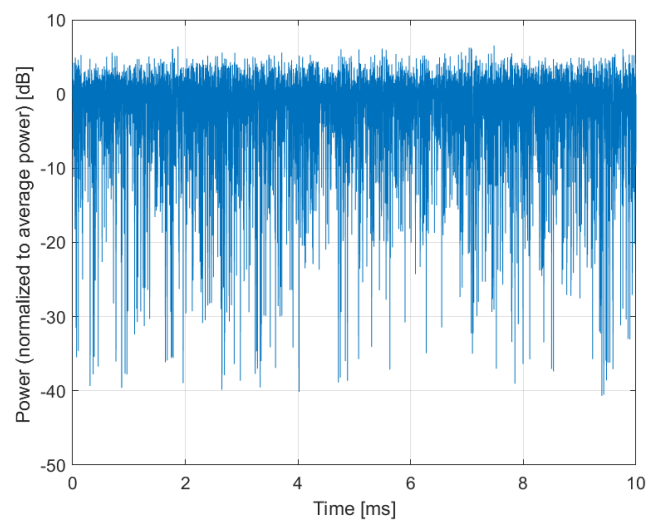
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10904-AAC

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

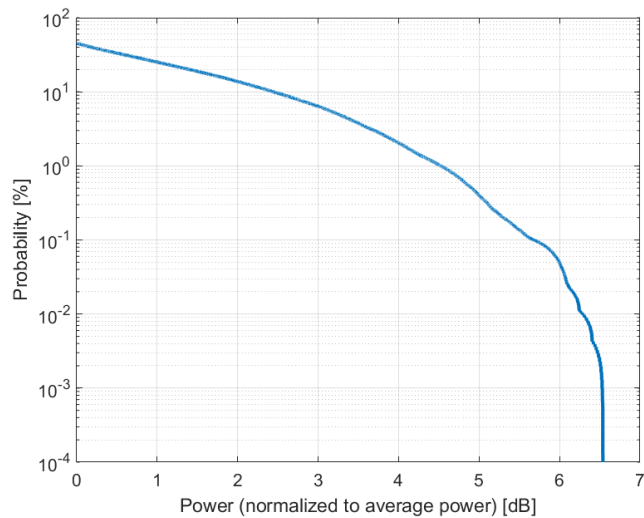
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

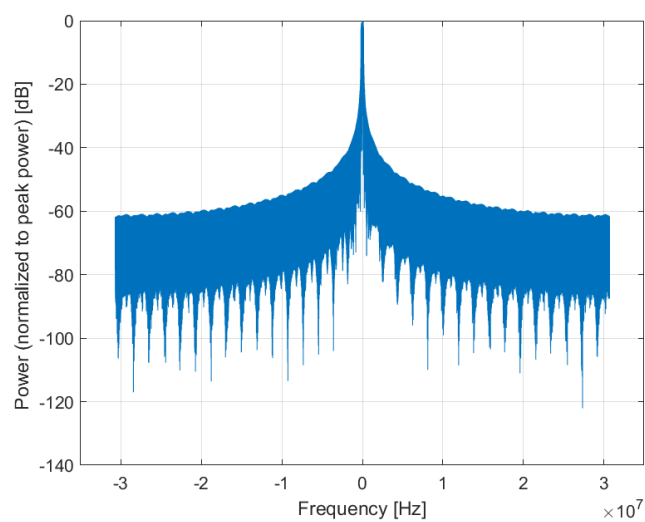
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

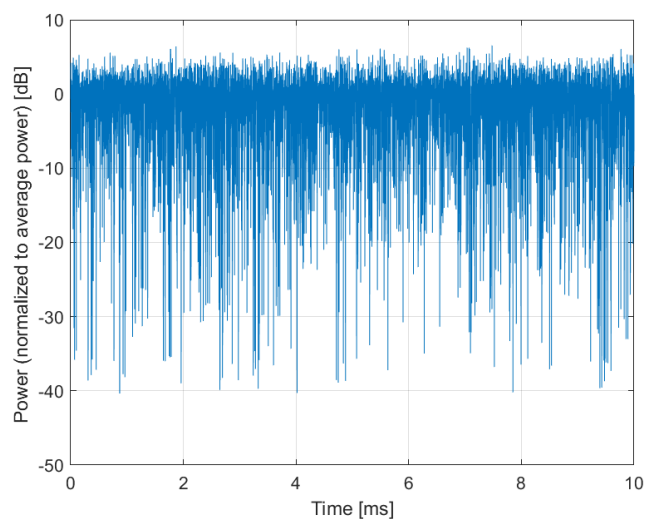
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10905-AAD

PAR: ¹ **5.68 dB**
MIF: ² **-16.68 dB**

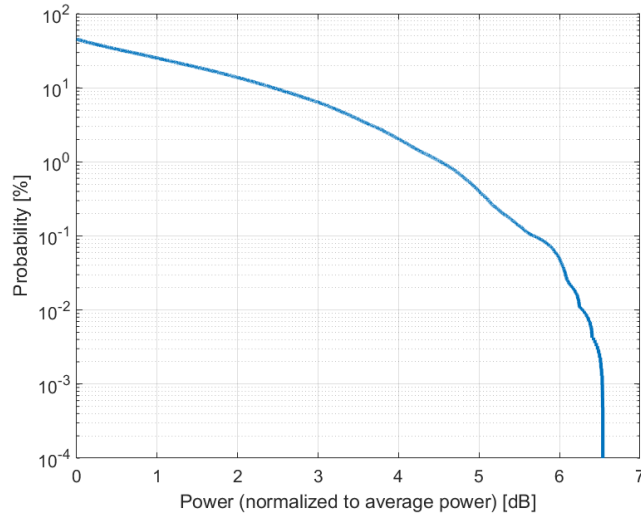
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

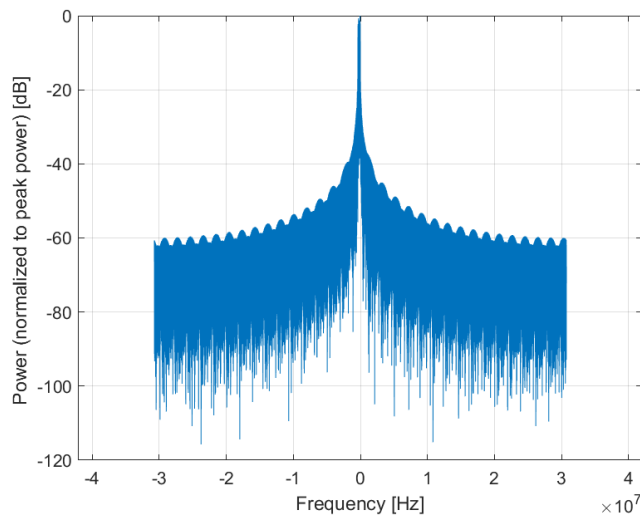
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

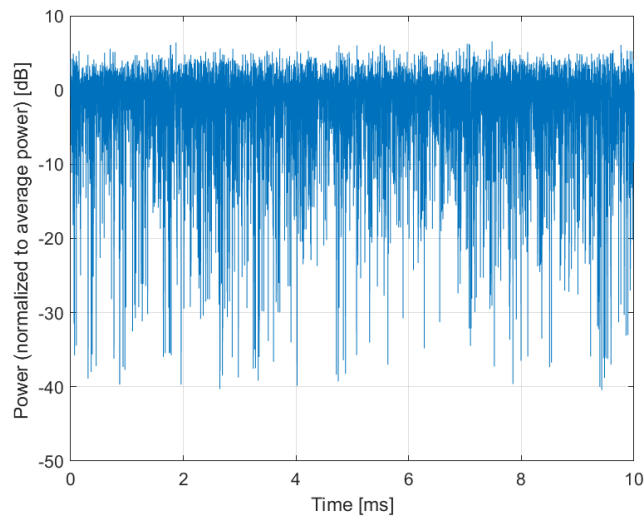
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10906-AAD

PAR: ¹ **5.68 dB**
MIF: ² **-16.69 dB**

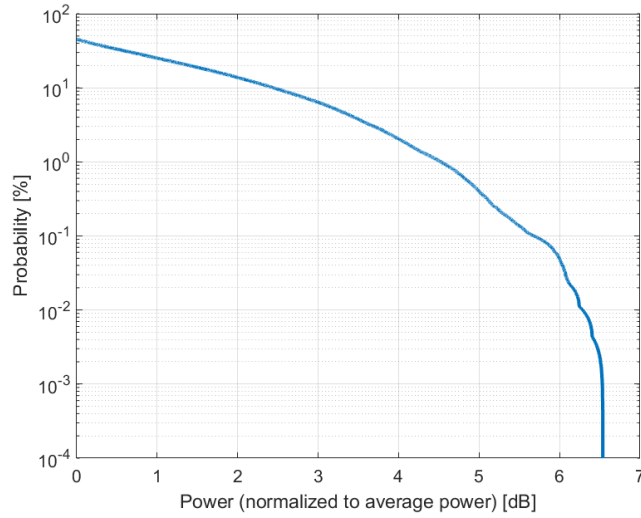
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: 1
Data Type: PN9

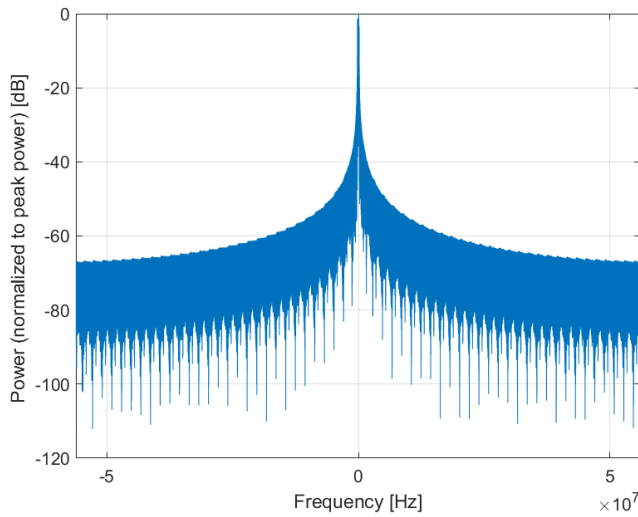
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

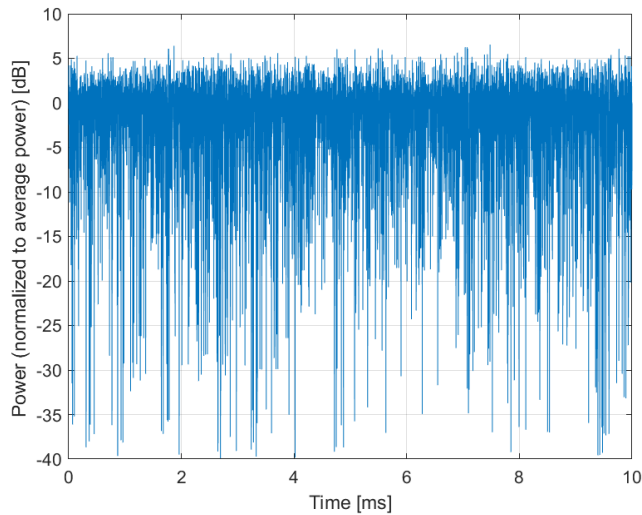
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10907-AAE

PAR: ¹ **5.78 dB**
MIF: ² **-19.09 dB**

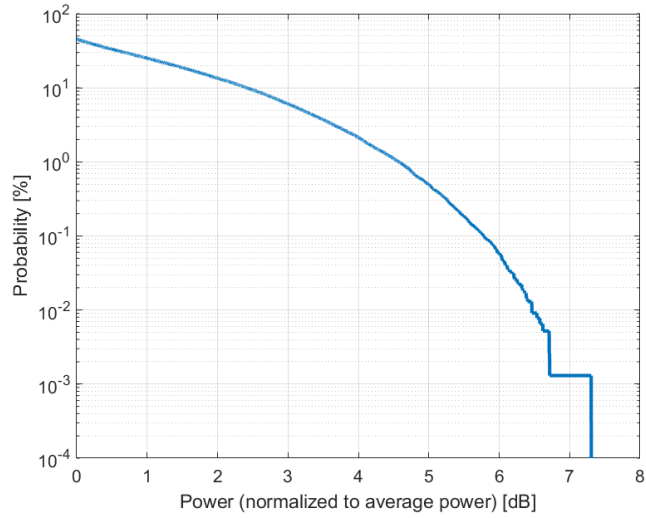
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 5
Slot Format Index: 1
Data Type: PN9

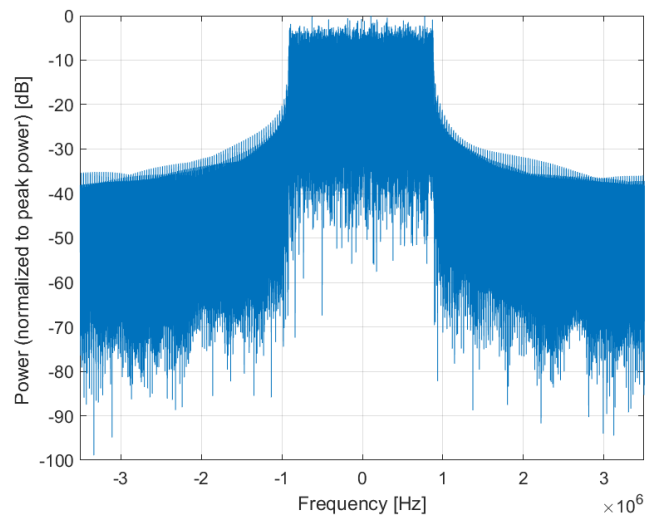
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

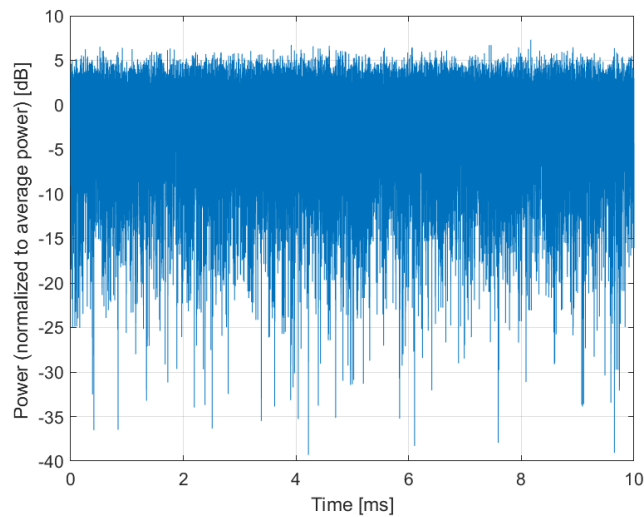
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10908-AAC

PAR: ¹ **5.93 dB**
MIF: ² **-19.67 dB**

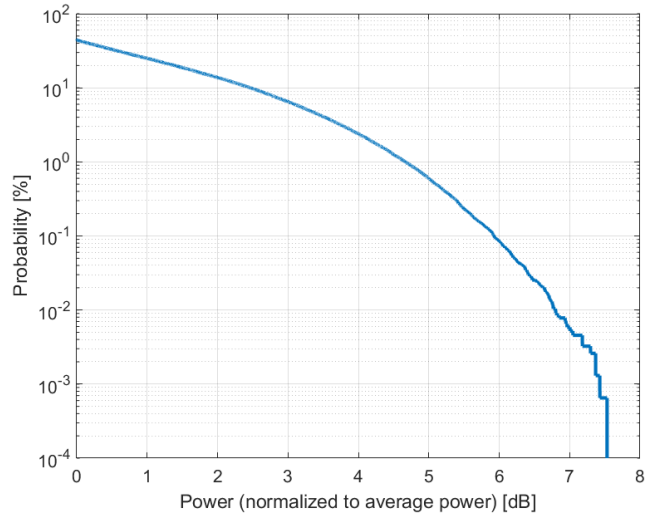
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 12
Slot Format Index: 1
Data Type: PN9

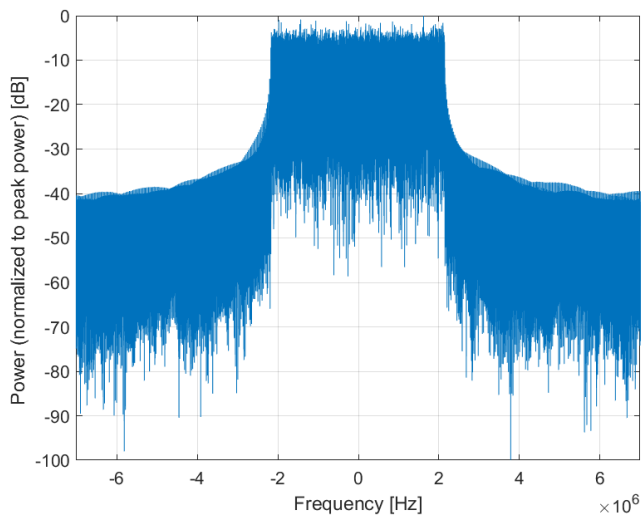
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

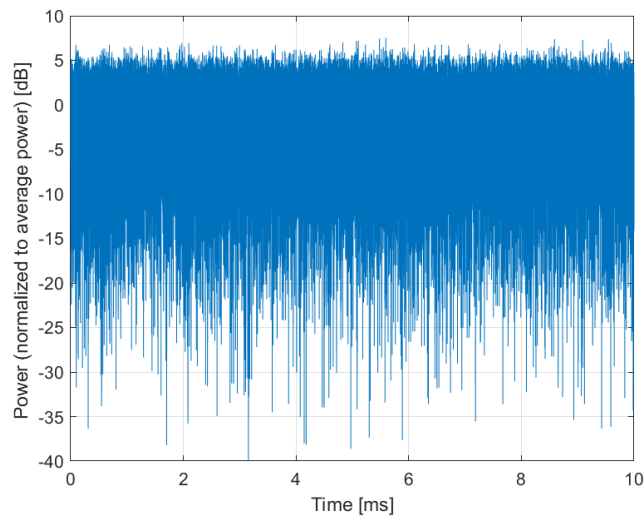
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10909-AAB

PAR: ¹ **5.96 dB**
MIF: ² **-20.01 dB**

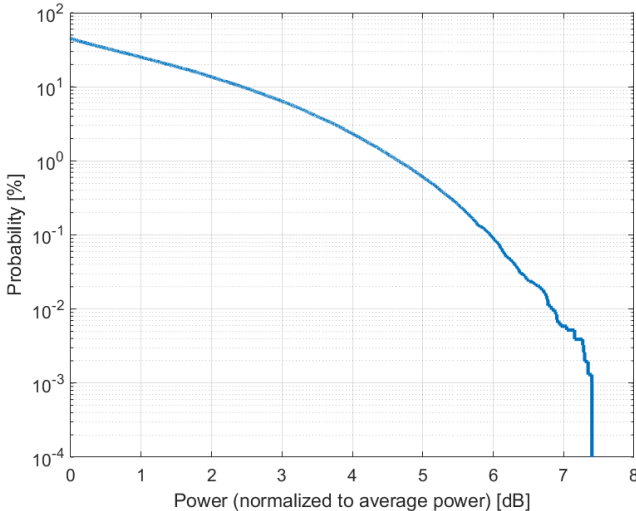
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 18
Slot Format Index: 1
Data Type: PN9

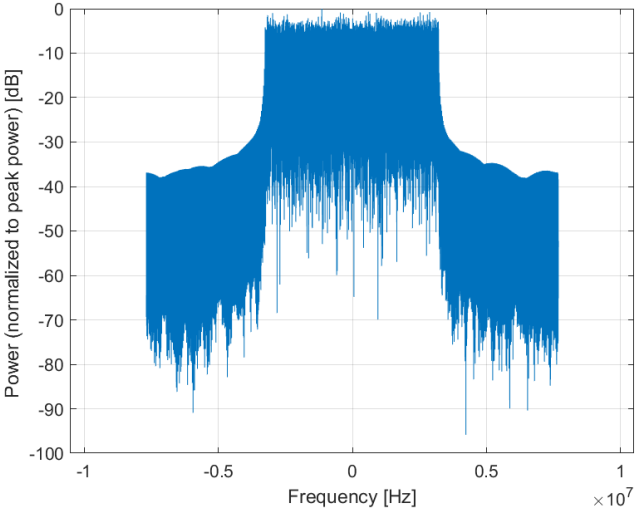
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

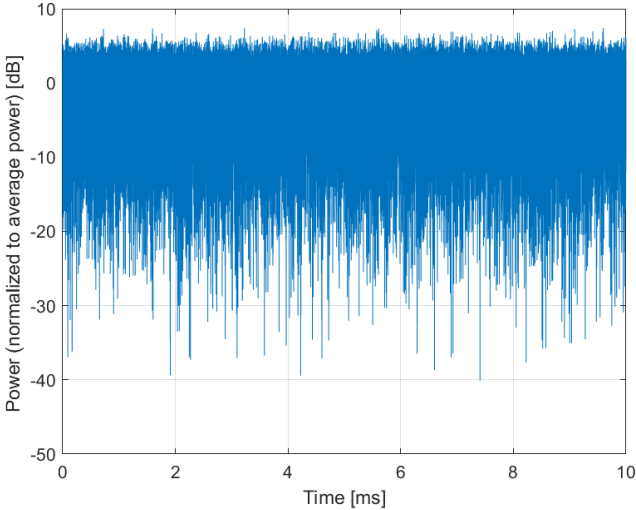
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10910-AAC

PAR: ¹ **5.83 dB**
MIF: ² **-20.30 dB**

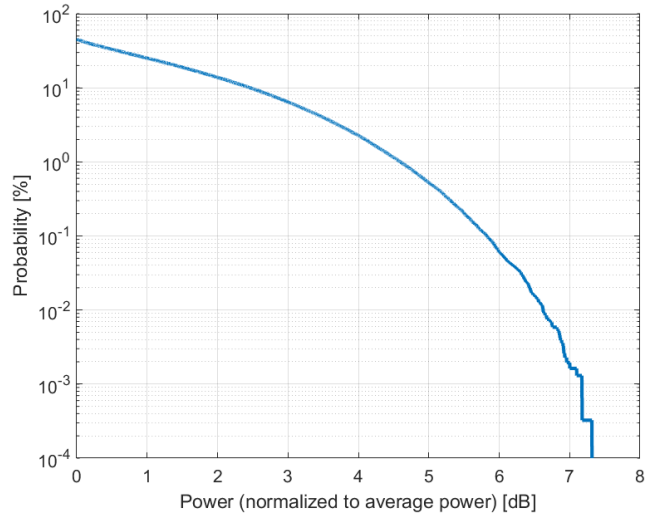
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 25
Slot Format Index: 1
Data Type: PN9

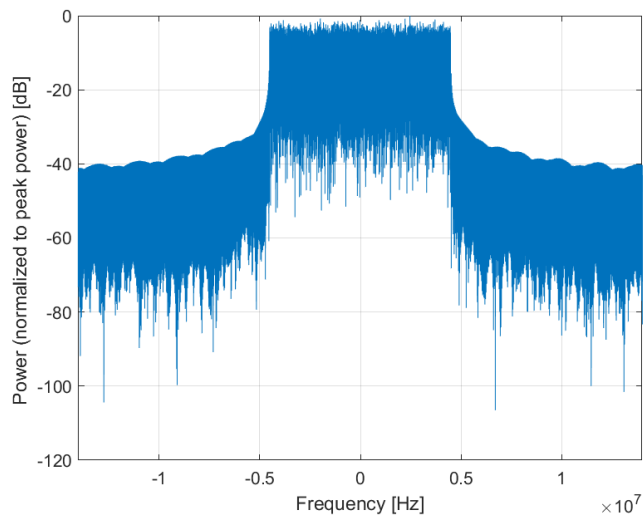
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

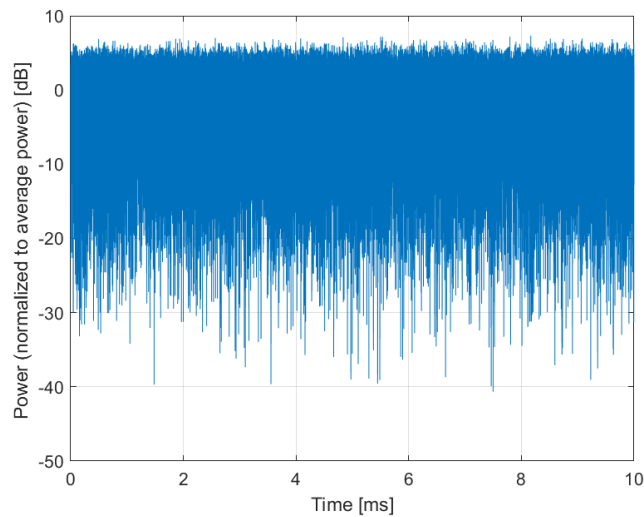
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10911-AAB

PAR: ¹ **5.93 dB**
MIF: ² **-20.40 dB**

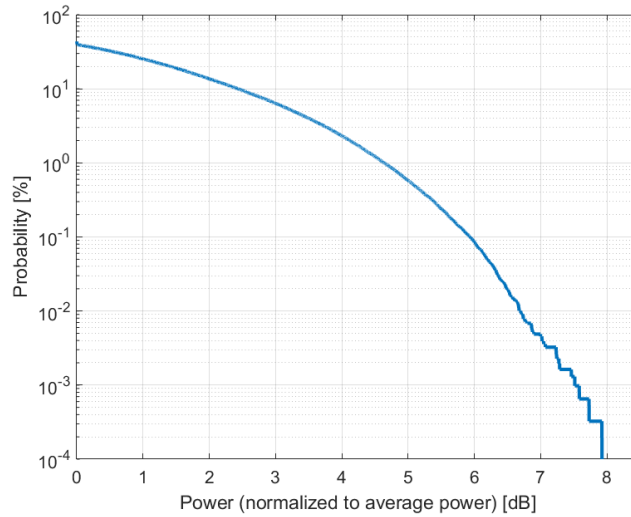
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

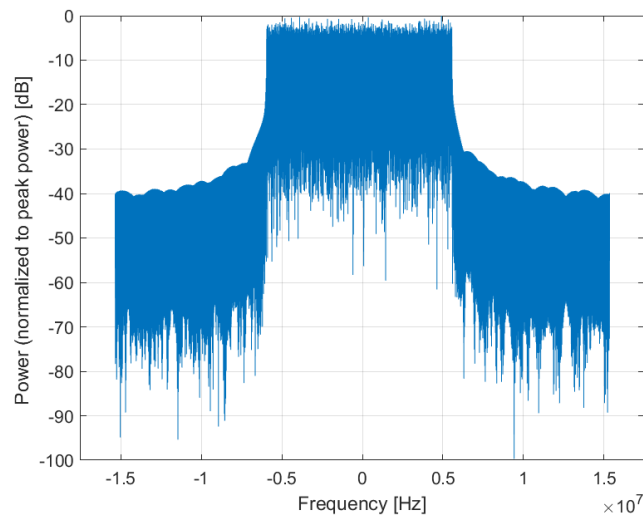
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

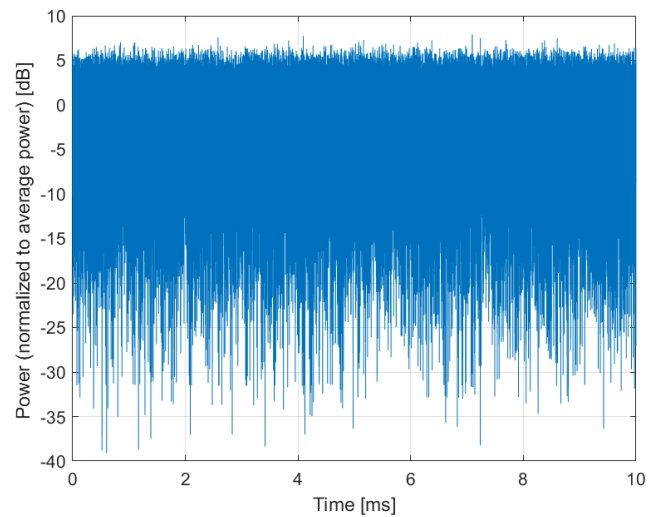
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10912-AAC

PAR: ¹ **5.84 dB**
MIF: ² **-20.39 dB**

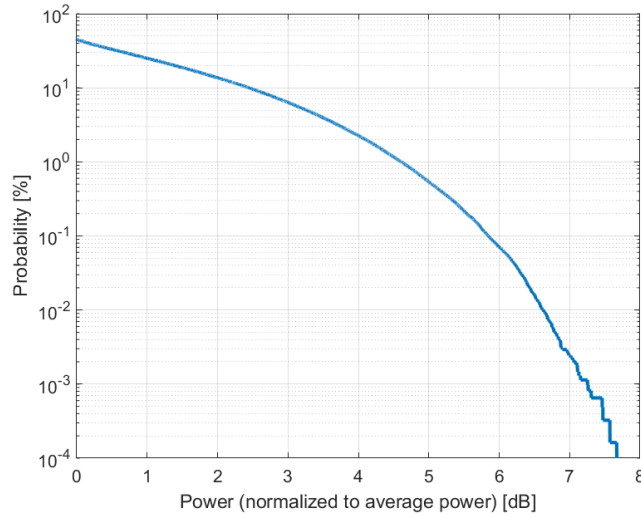
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 36
Slot Format Index: 1
Data Type: PN9

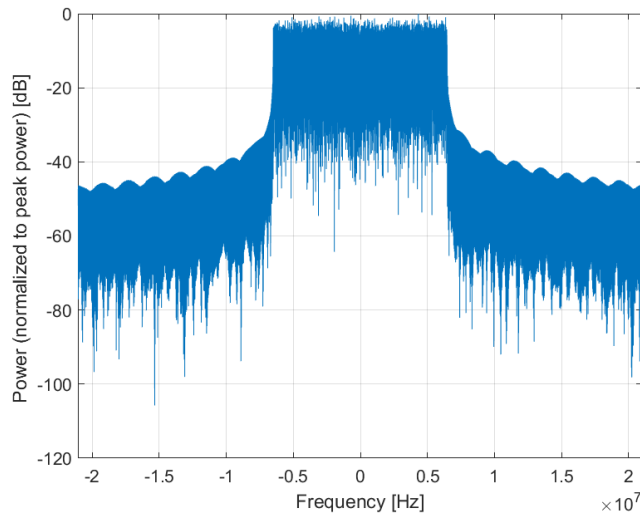
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

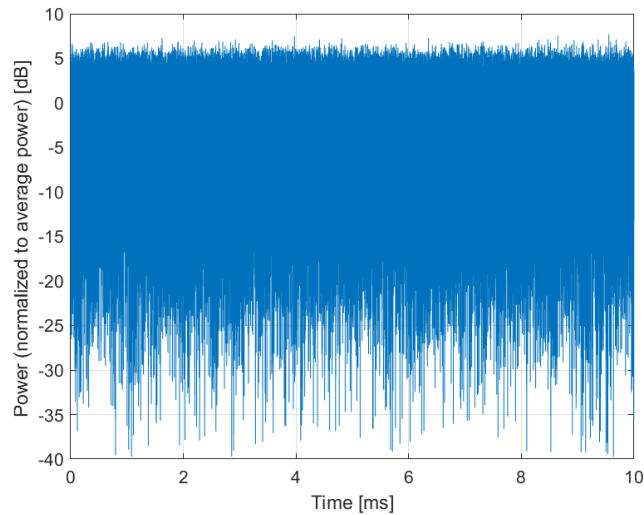
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10913-AAD

PAR: ¹ **5.84 dB**
MIF: ² **-20.15 dB**

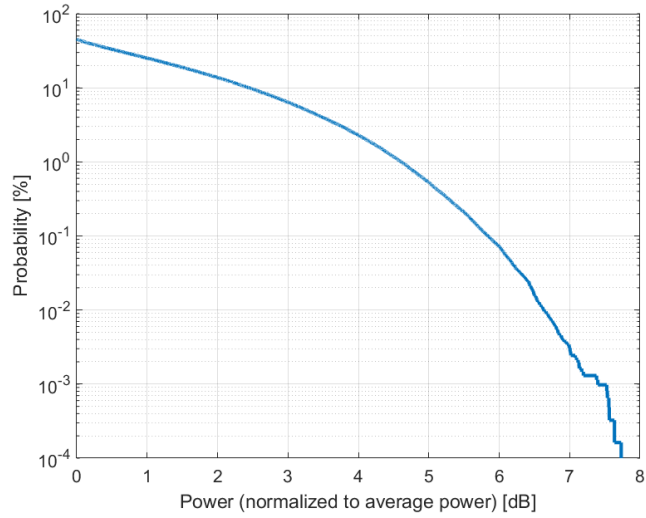
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 50
Slot Format Index: 1
Data Type: PN9

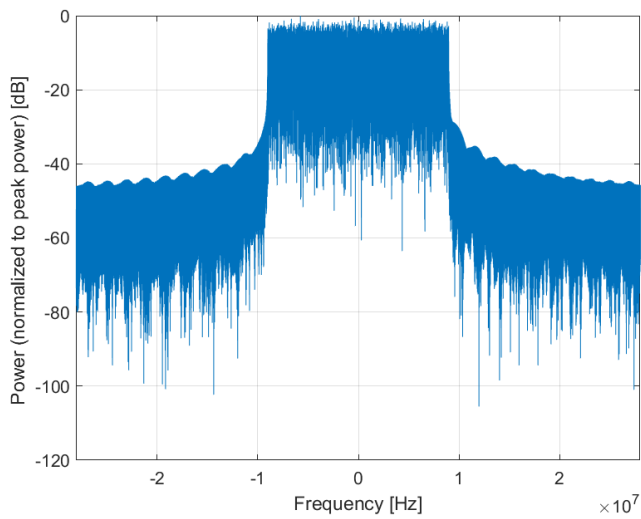
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

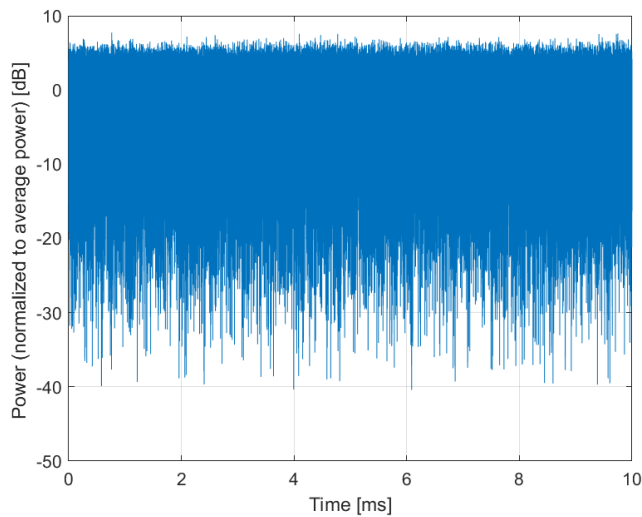
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10914-AAC

PAR: ¹ **5.85 dB**
MIF: ² **-20.27 dB**

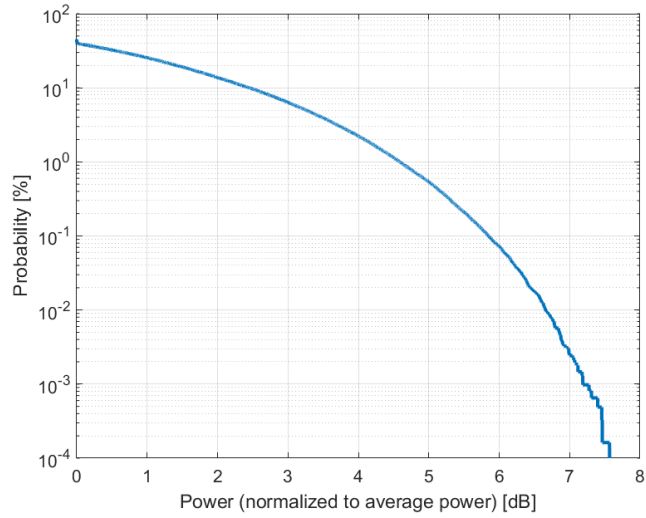
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 64
Slot Format Index: 1
Data Type: PN9

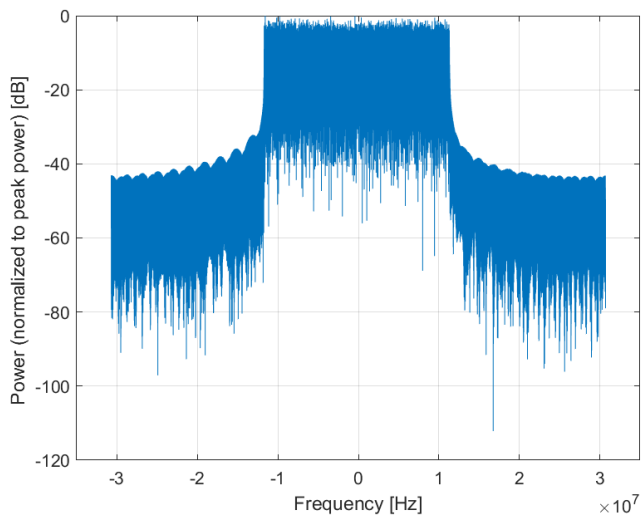
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

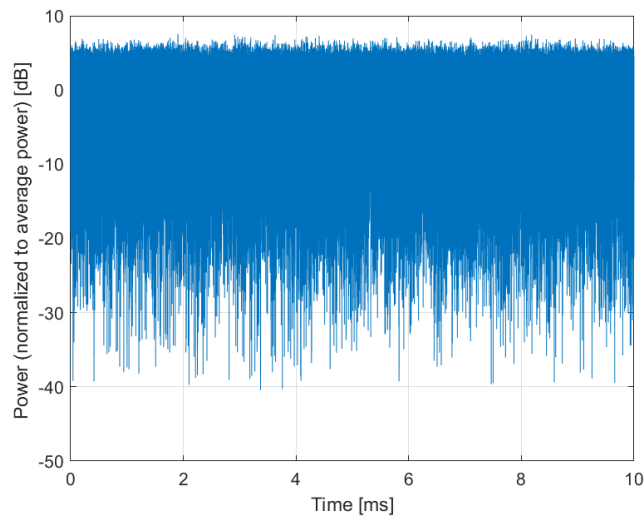
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10915-AAD

PAR: ¹ **5.83 dB**
MIF: ² **-20.44 dB**

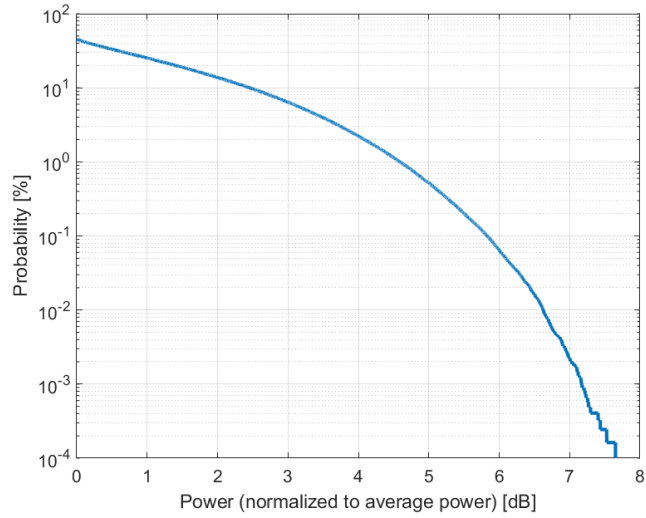
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 81
Slot Format Index: 1
Data Type: PN9

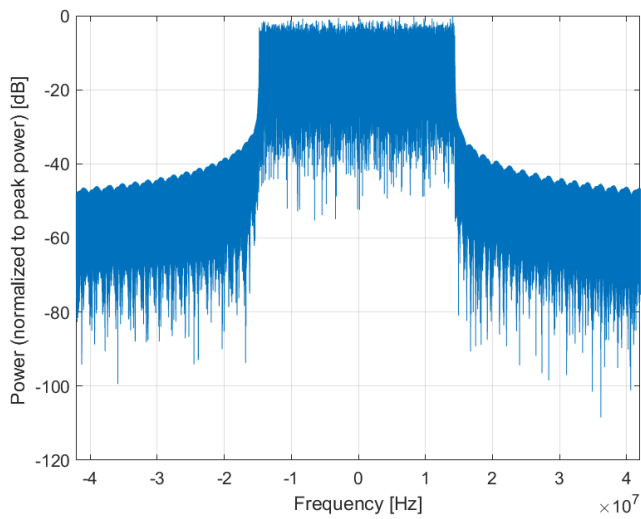
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

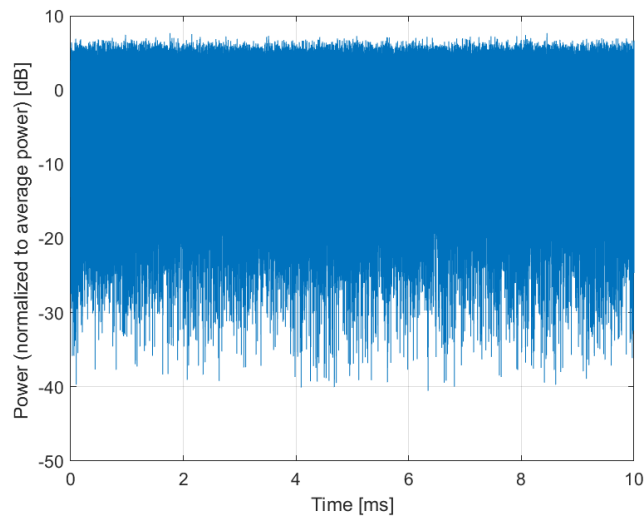
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10916-AAD

PAR: ¹ **5.87 dB**
MIF: ² **-20.49 dB**

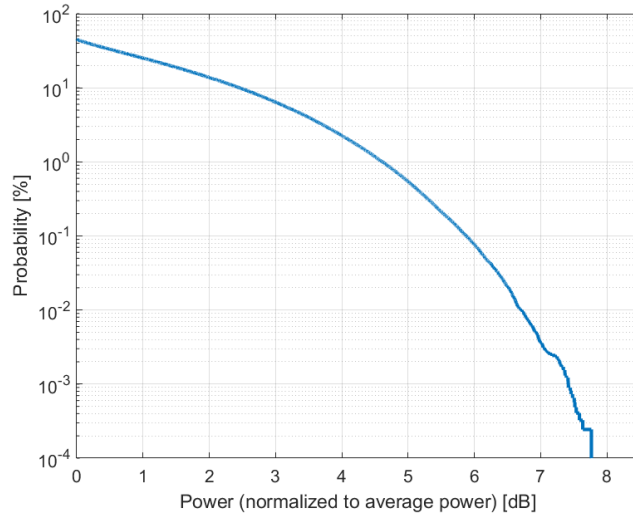
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 108
Slot Format Index: 1
Data Type: PN9

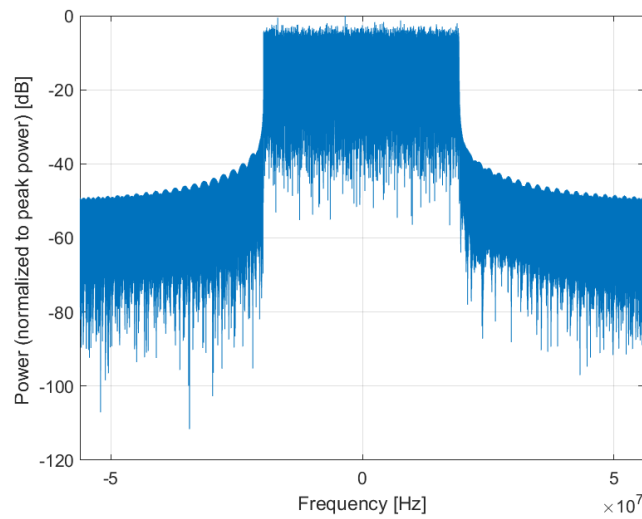
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

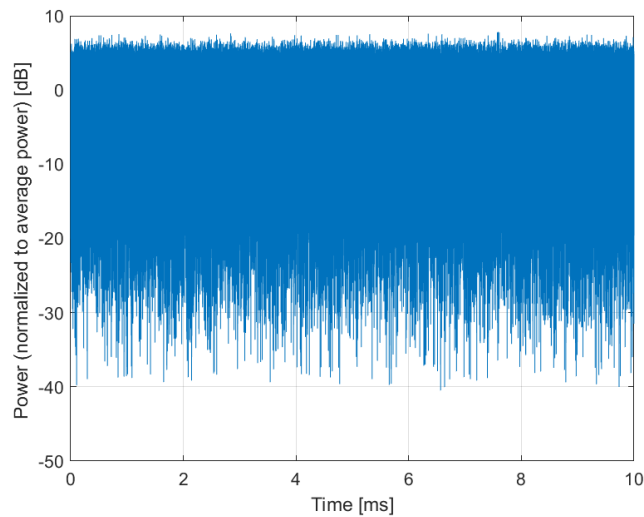
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10917-AAD

PAR: ¹ **5.94 dB**
MIF: ² **-20.29 dB**

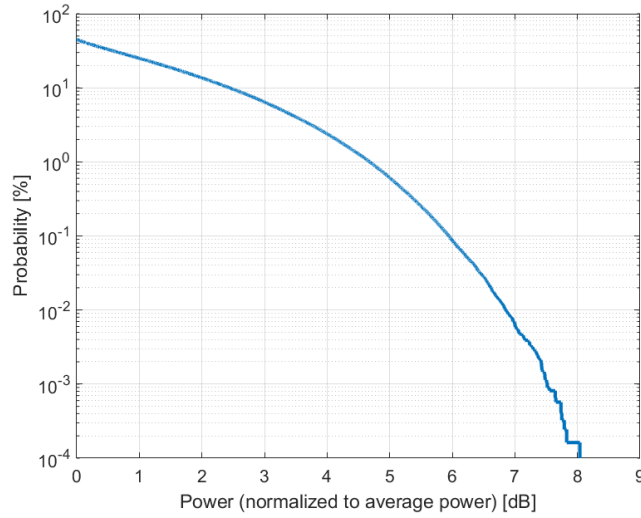
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 135
Slot Format Index: 1
Data Type: PN9

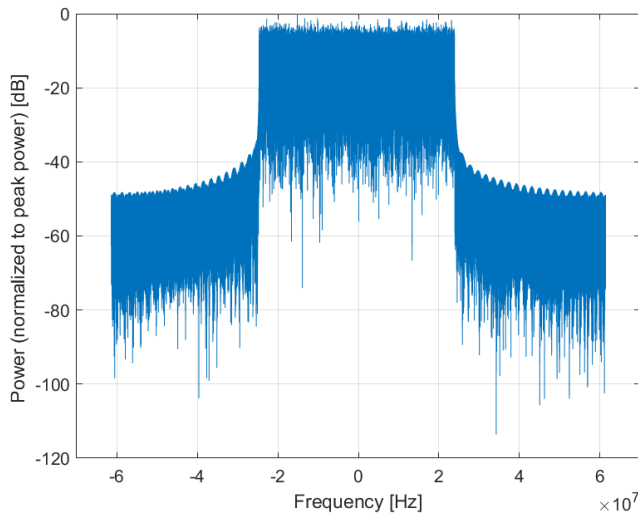
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

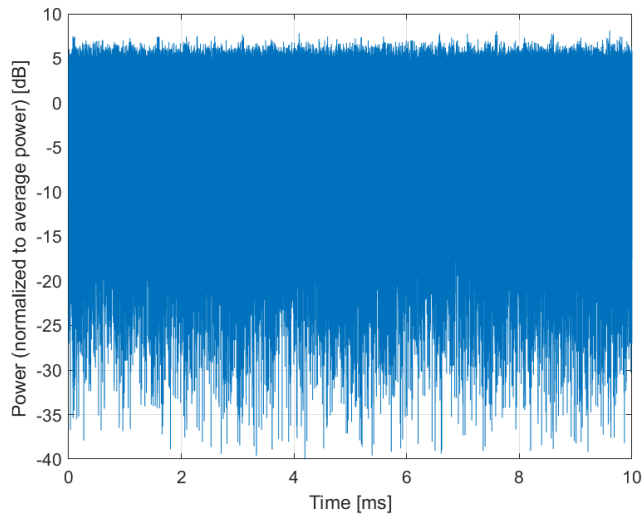
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10918-AAE

PAR: ¹ **5.86 dB**
MIF: ² **-20.12 dB**

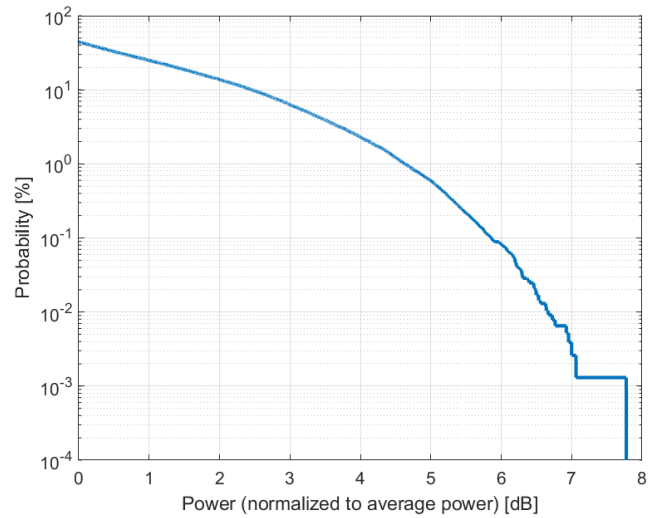
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 10
Slot Format Index: 1
Data Type: PN9

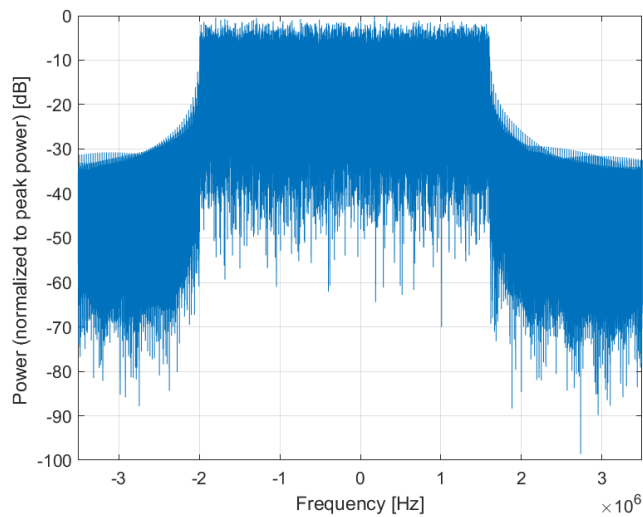
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

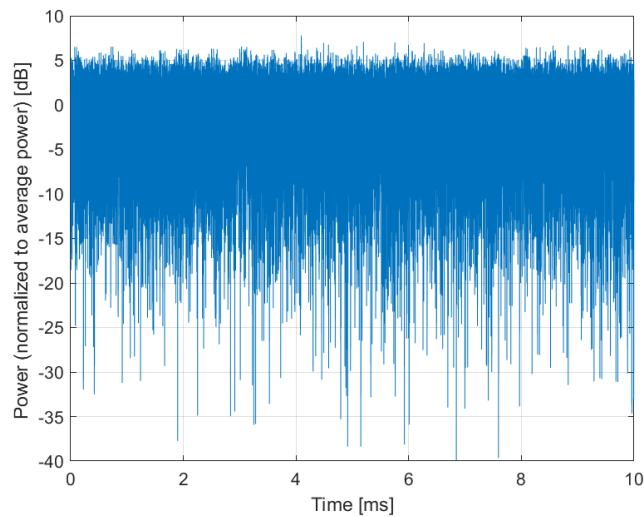
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10919-AAC

PAR: ¹ **5.86 dB**
MIF: ² **-20.43 dB**

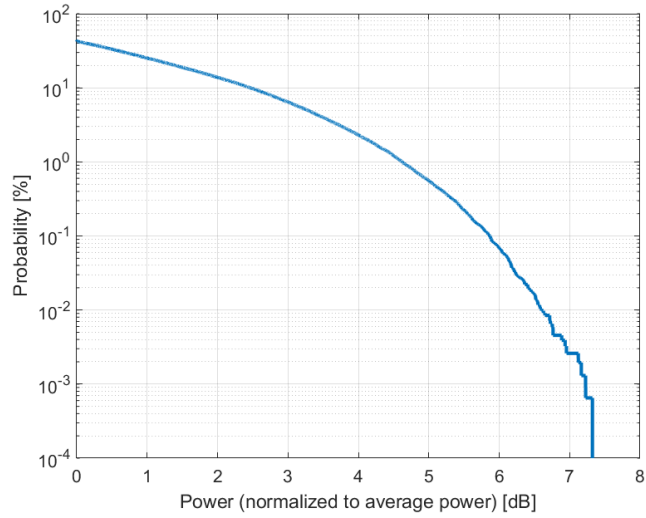
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 24
Slot Format Index: 1
Data Type: PN9

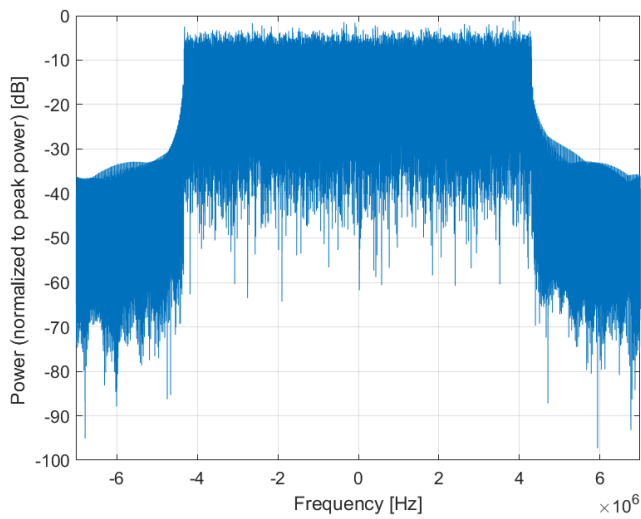
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

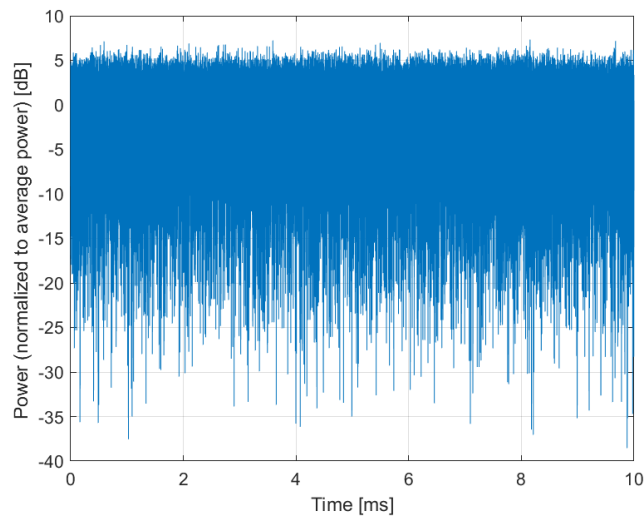
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10920-AAB

PAR: ¹ **5.87 dB**
MIF: ² **-20.38 dB**

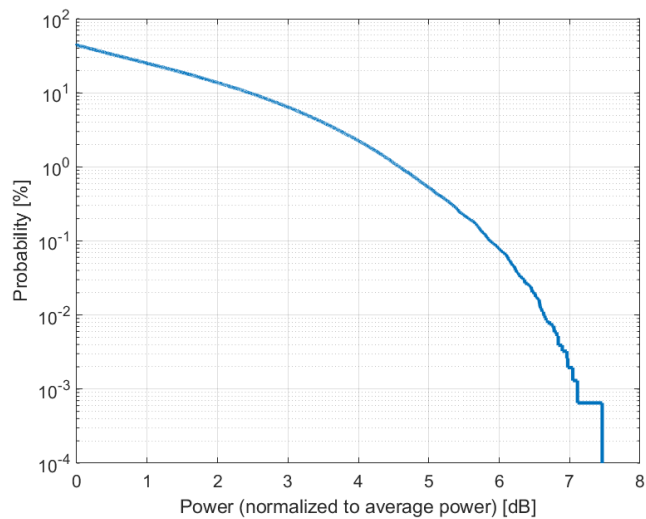
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 36
Slot Format Index: 1
Data Type: PN9

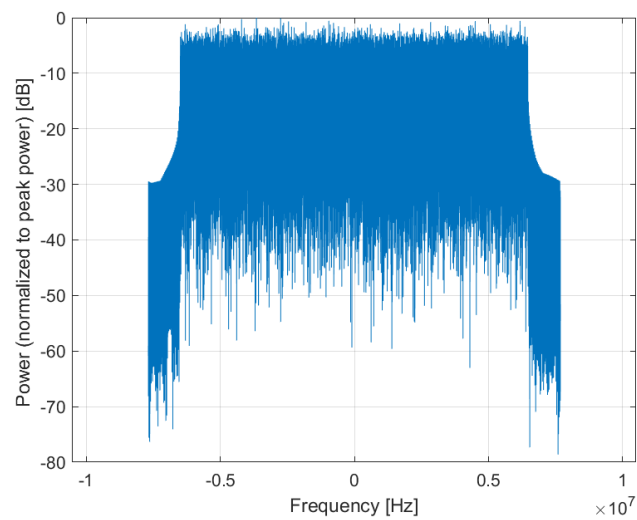
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

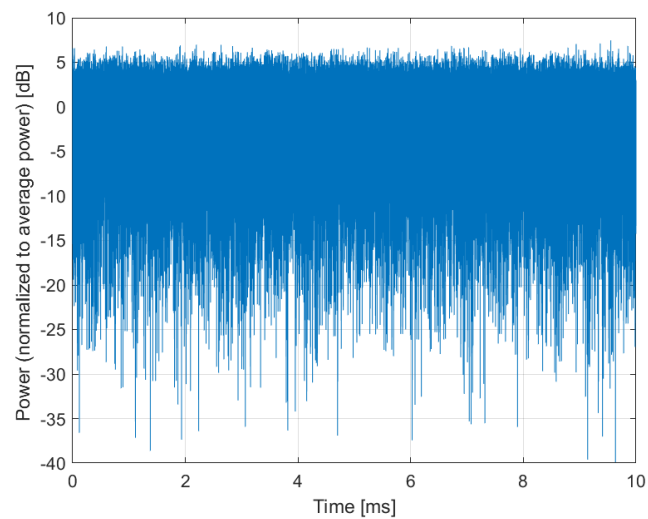
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10921-AAC

PAR: ¹ **5.84 dB**
MIF: ² **-20.14 dB**

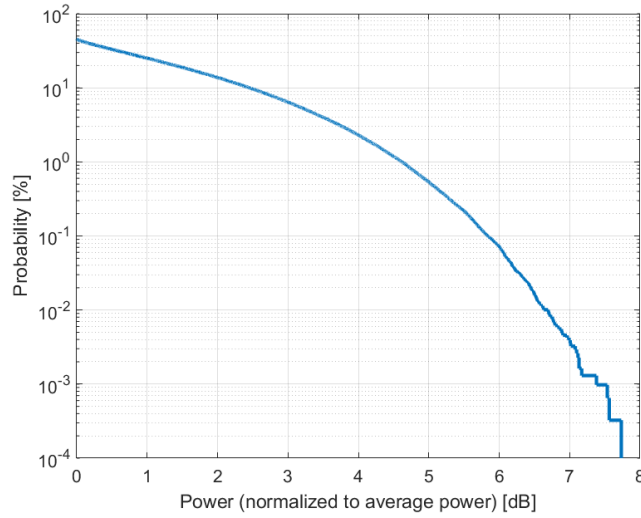
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 50
Slot Format Index: 1
Data Type: PN9

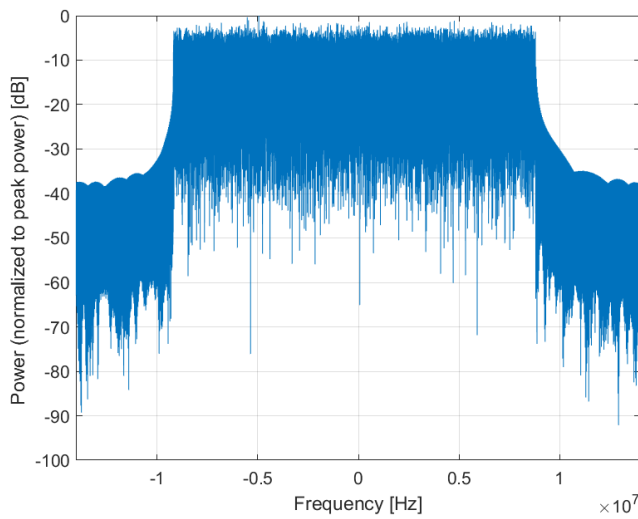
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

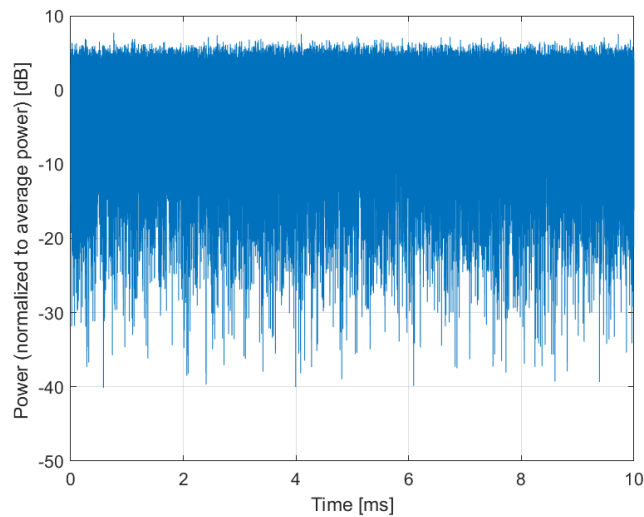
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10922-AAB

PAR: ¹ **5.82 dB**
MIF: ² **-20.26 dB**

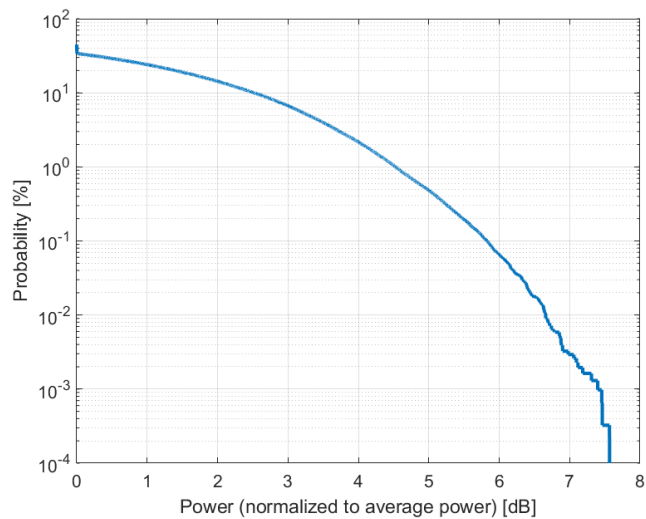
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 64
Slot Format Index: 1
Data Type: PN9

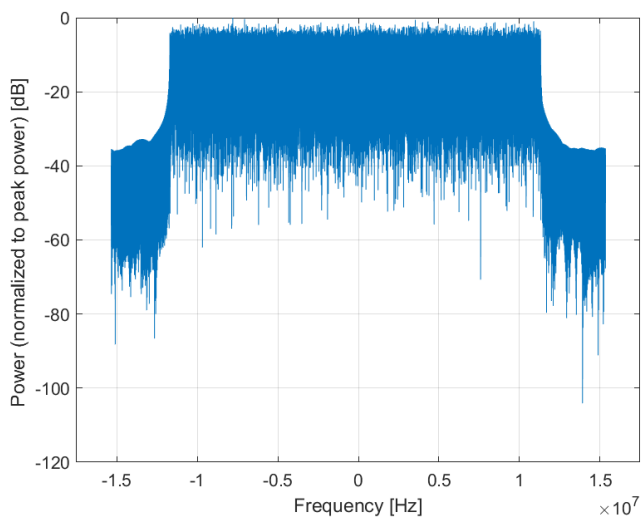
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

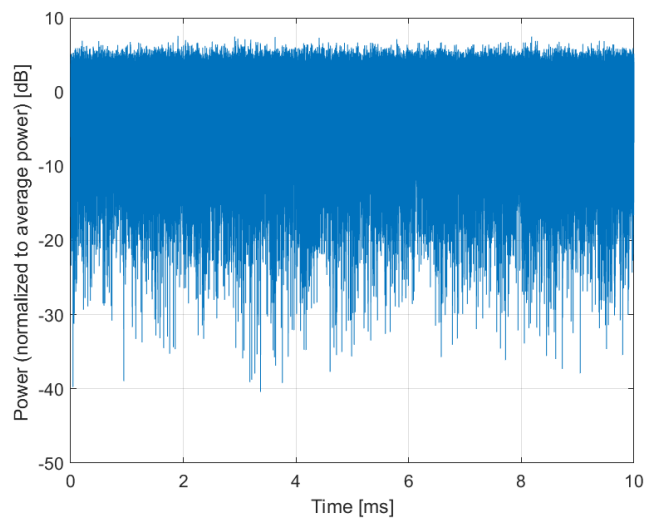
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10923-AAC

PAR: ¹ **5.84 dB**
MIF: ² **-20.39 dB**

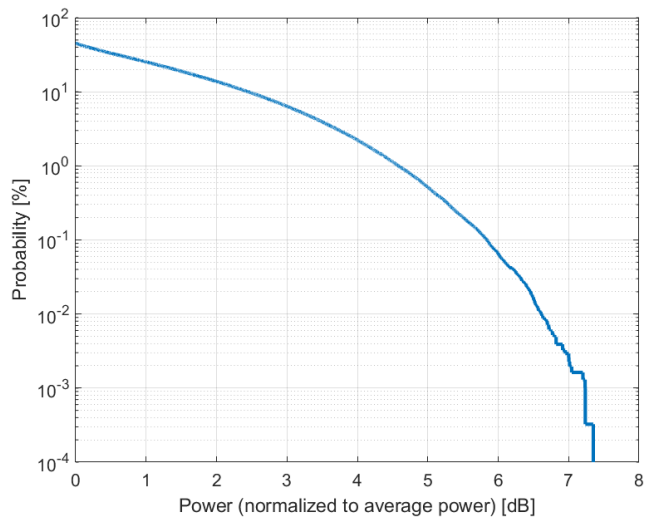
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 75
Slot Format Index: 1
Data Type: PN9

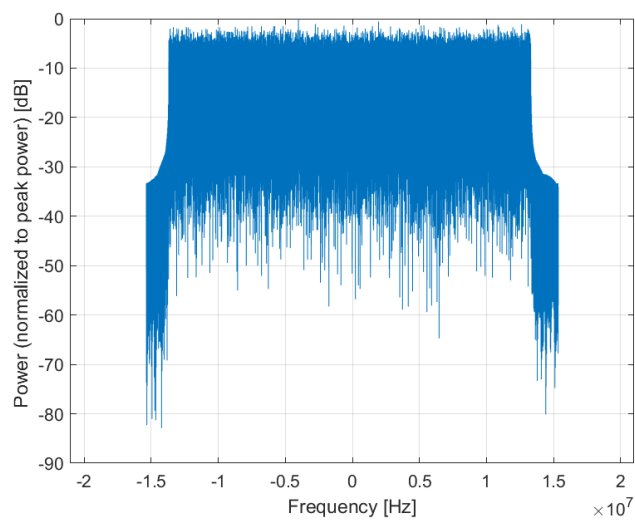
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

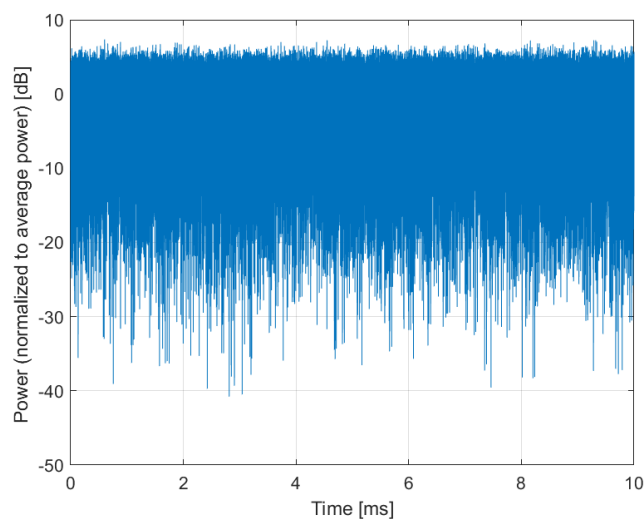
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10924-AAD

PAR: ¹ **5.84 dB**
MIF: ² **-20.45 dB**

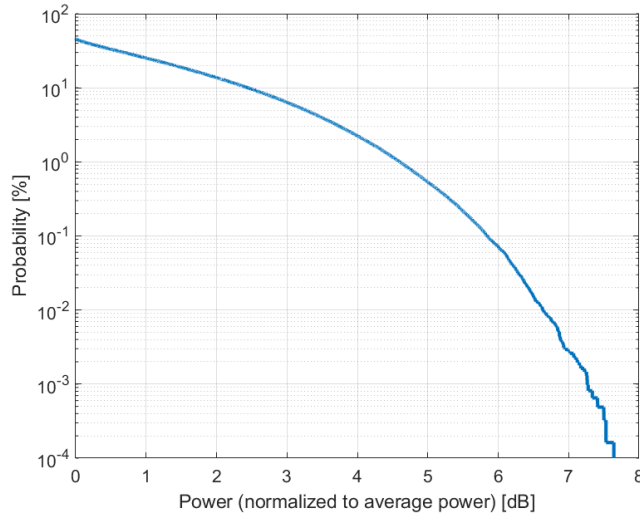
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 100
Slot Format Index: 1
Data Type: PN9

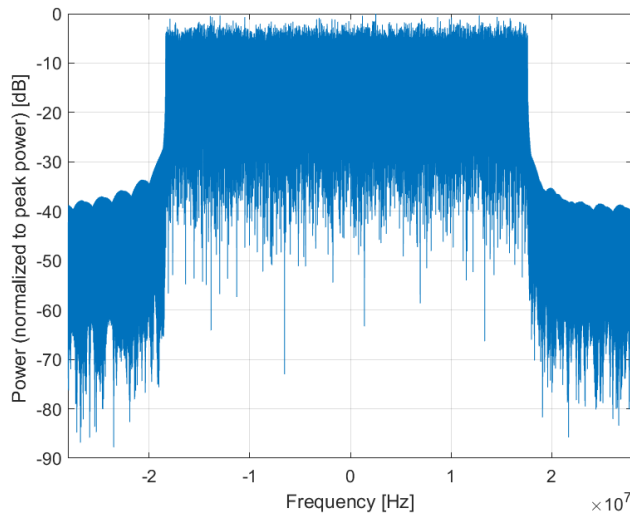
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

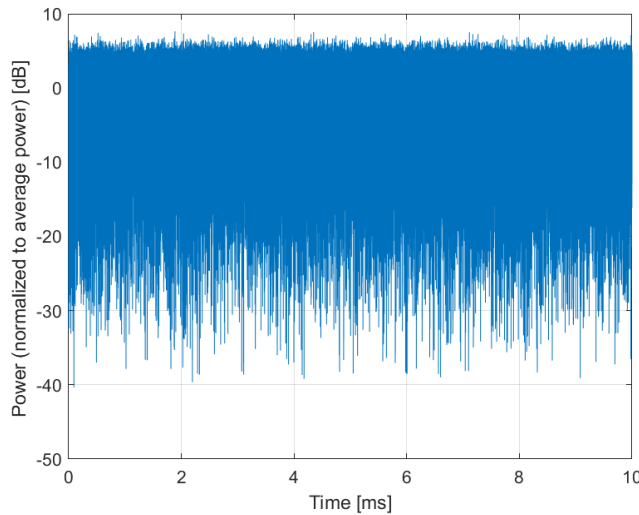
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10925-AAC

PAR: ¹ **5.95 dB**
MIF: ² **-20.23 dB**

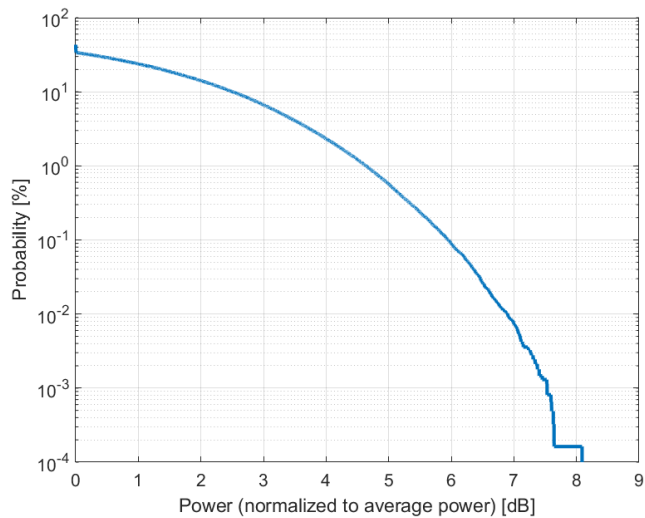
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 128
Slot Format Index: 1
Data Type: PN9

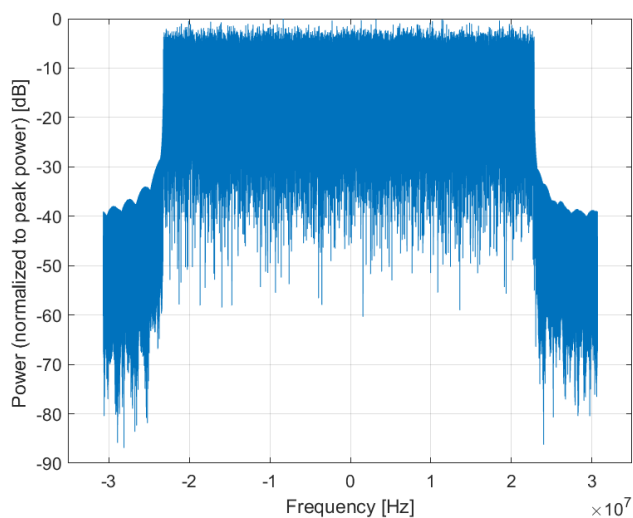
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

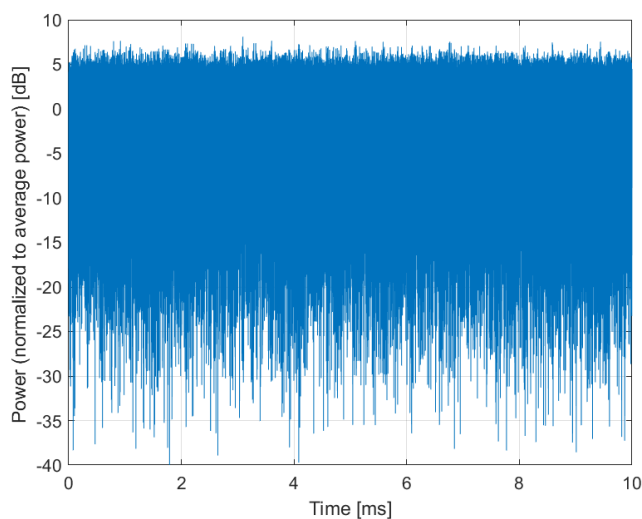
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10926-AAD

PAR: ¹ **5.84 dB**
MIF: ² **-20.48 dB**

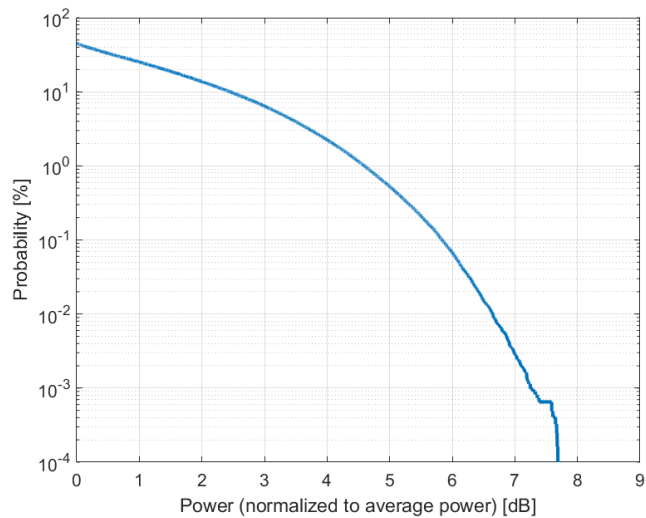
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 162
Slot Format Index: 1
Data Type: PN9

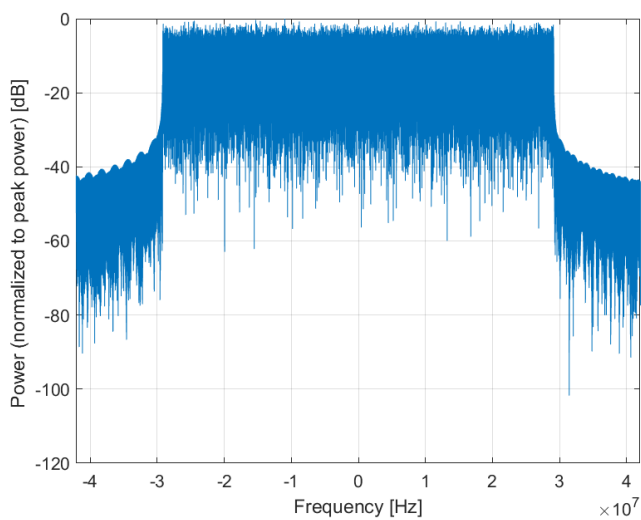
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

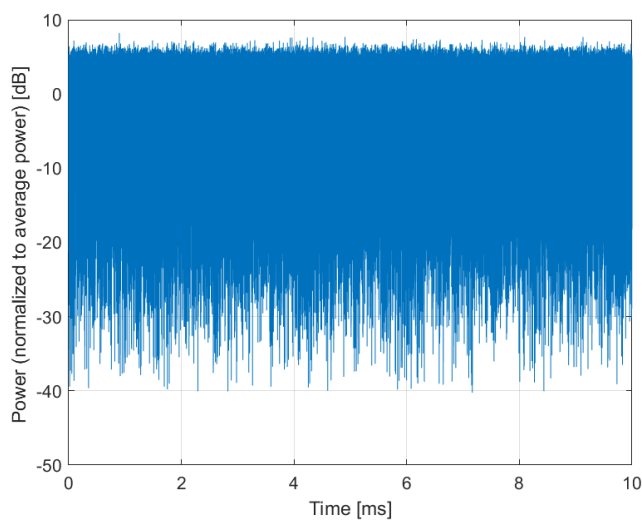
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10927-AAD

PAR: ¹ **5.94 dB**
MIF: ² **-20.32 dB**

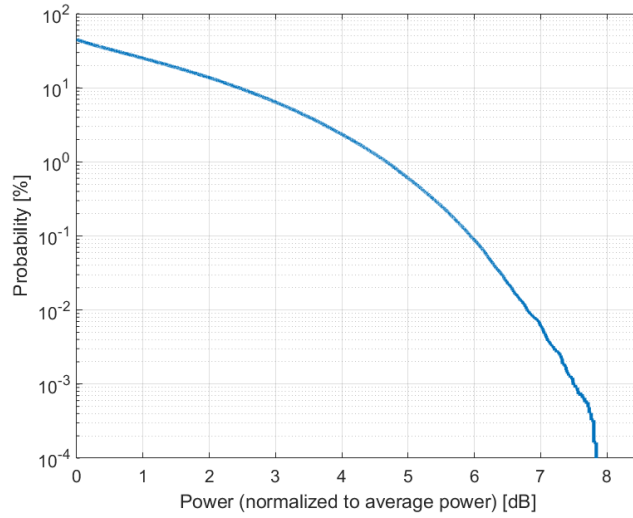
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 216
Slot Format Index: 1
Data Type: PN9

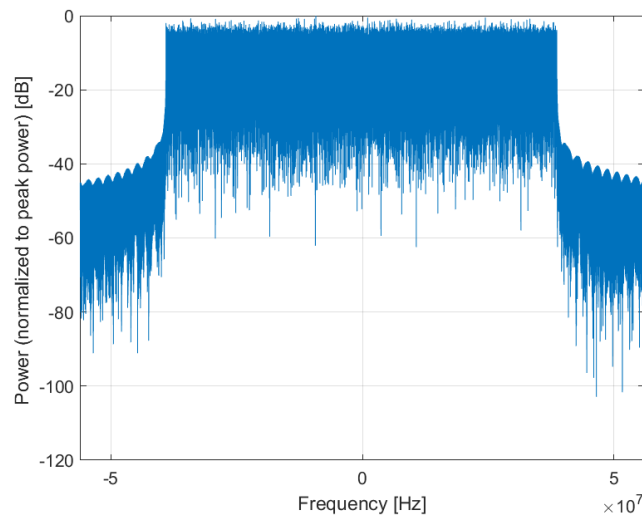
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

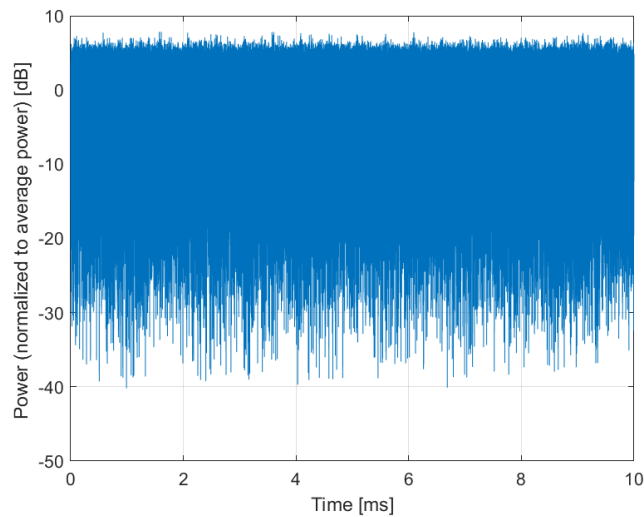
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10928-AAD

PAR: ¹ **5.52 dB**
MIF: ² **-15.06 dB**

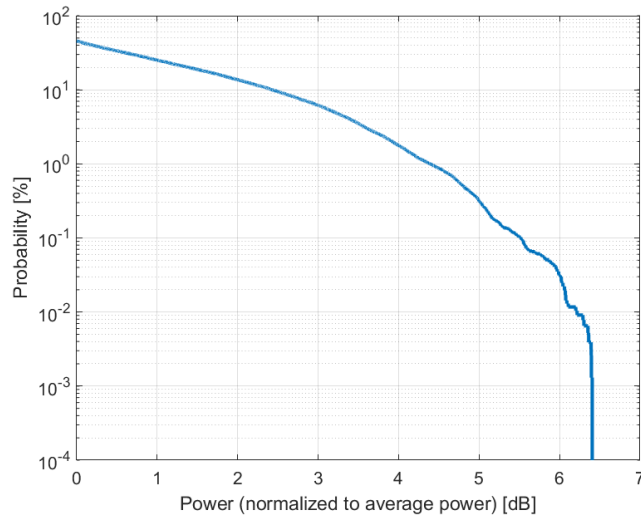
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n14 (788 - 798 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n30 (2305 - 2315 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n91 (832 - 862 MHz)
Band n92 (832 - 862 MHz)
Band n93 (880 - 915 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n24 (1626.5 - 1660.5 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Band n99 (1626.5 - 1660.5 MHz)
Band n13 (777 - 787 MHz)
Band n100 (874.4 - 880 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

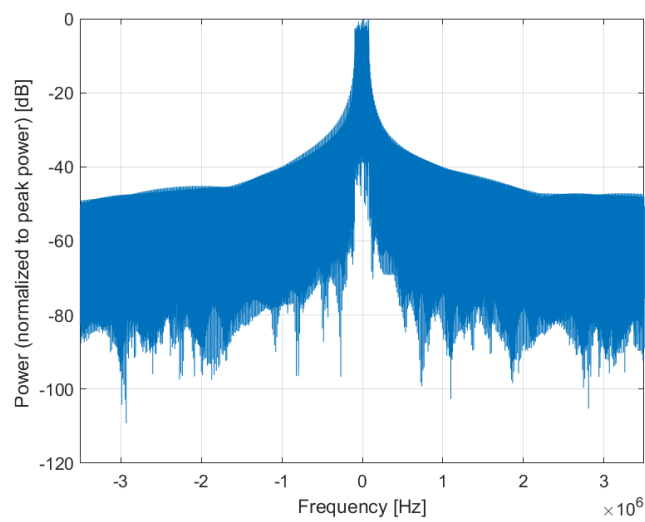
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

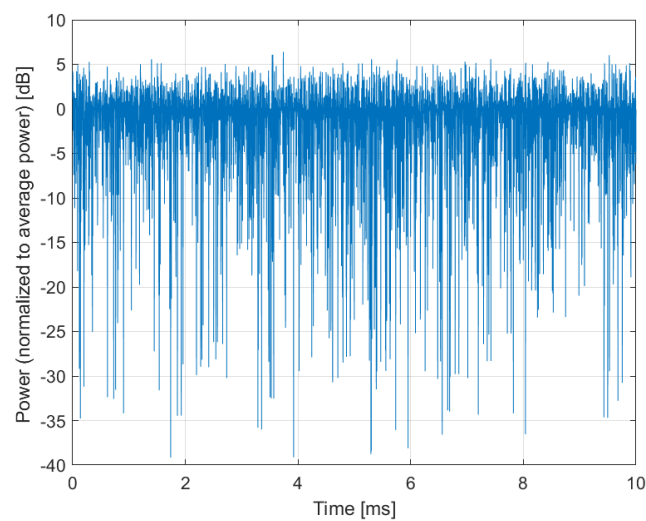
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10929-AAD

PAR: ¹ **5.52 dB**
MIF: ² **-15.06 dB**

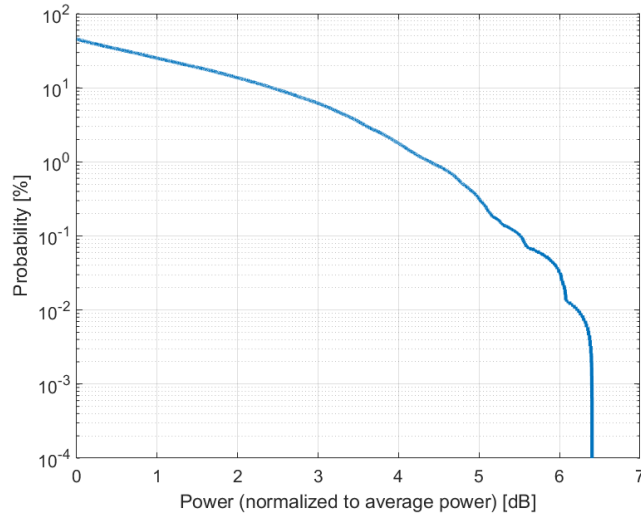
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:
Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n14 (788 - 798 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n30 (2305 - 2315 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n91 (832 - 862 MHz)
Band n92 (832 - 862 MHz)
Band n93 (880 - 915 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n24 (1626.5 - 1660.5 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Band n99 (1626.5 - 1660.5 MHz)
Band n13 (777 - 787 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

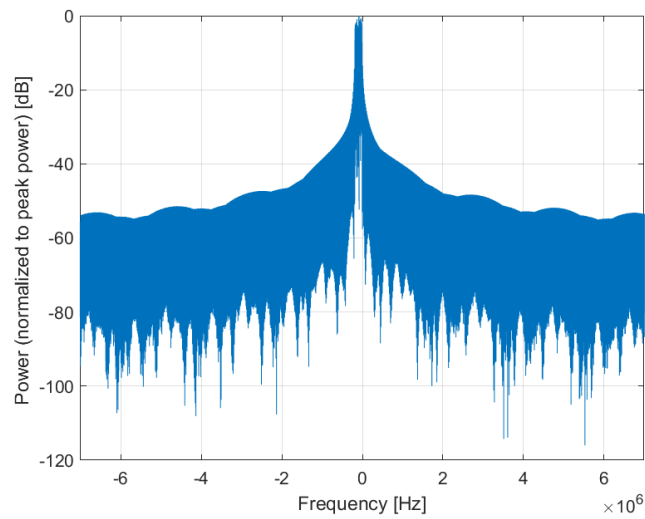
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

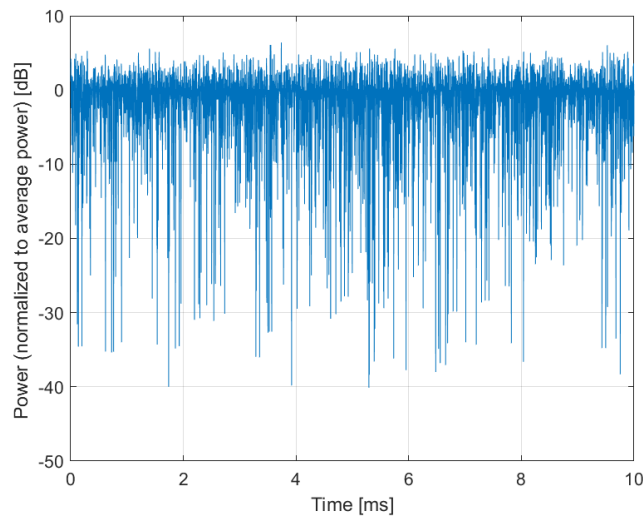
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



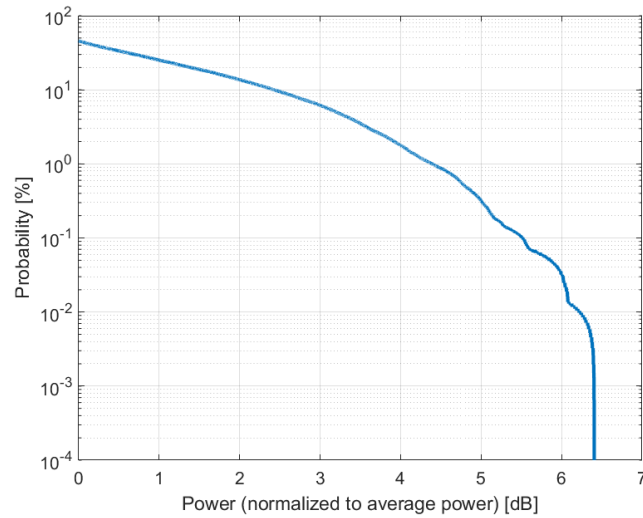
Time Domain

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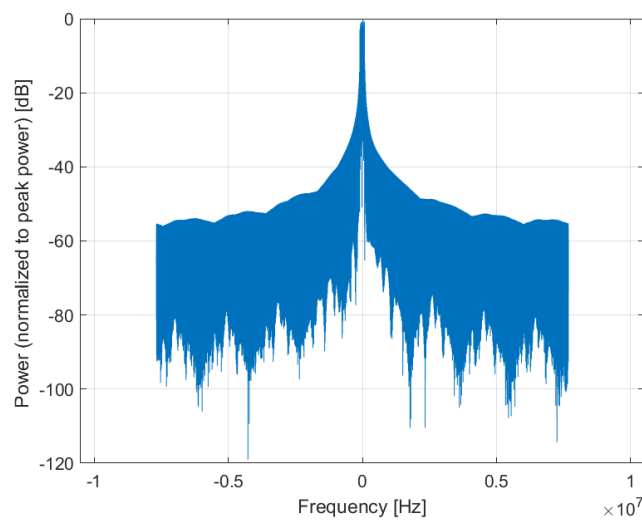
| | |
|-------------------------|--|
| Name: | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) |
| Group: | 5G NR FR1 FDD |
| UID: | 10930-AAC |
| PAR: ¹ | 5.52 dB |
| MIF: ² | -15.06 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

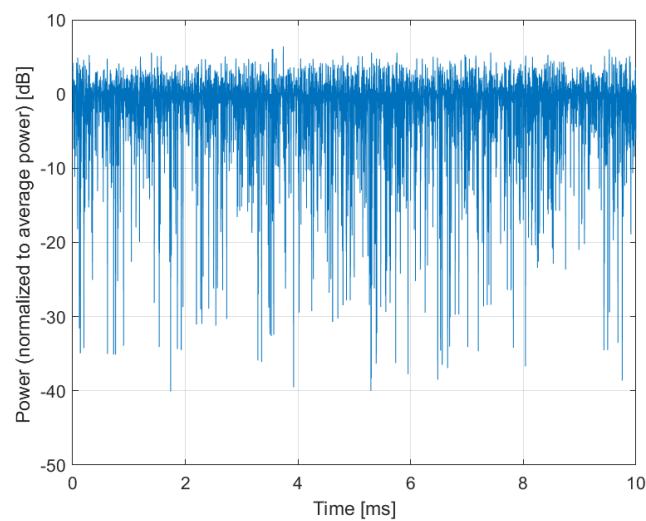
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10931-AAC

PAR: ¹ **5.51 dB**
MIF: ² **-15.06 dB**

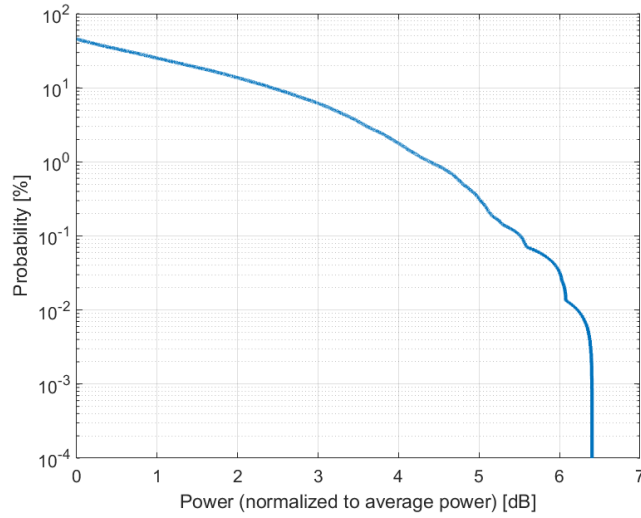
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

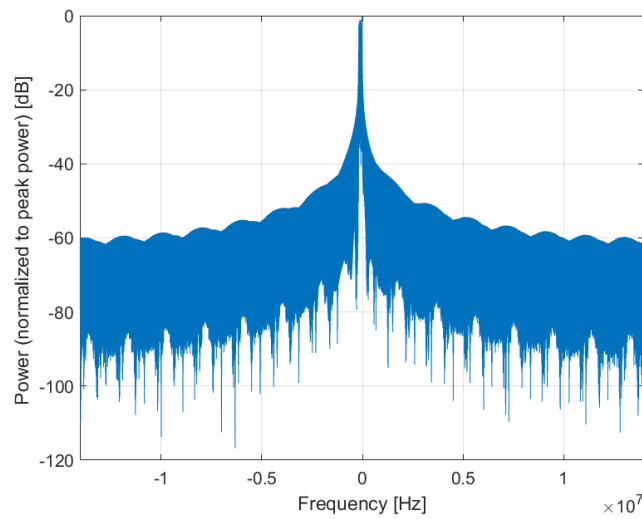
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

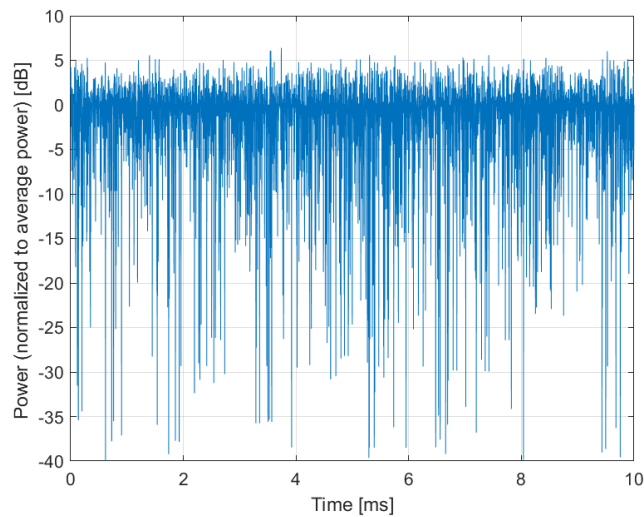
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10932-AAC

PAR: ¹ **5.51 dB**
MIF: ² **-15.06 dB**

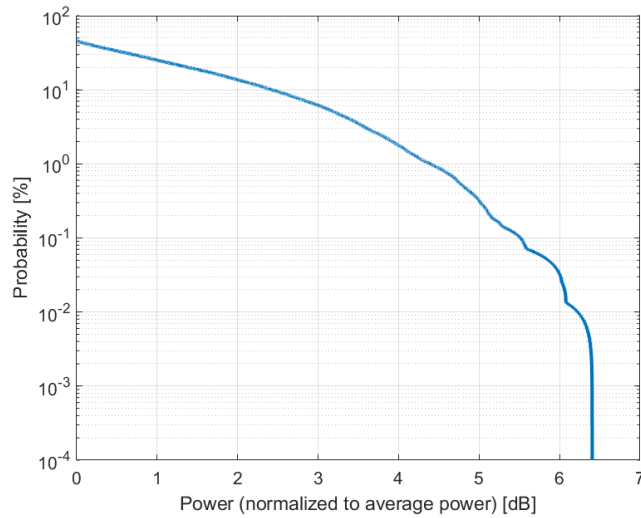
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

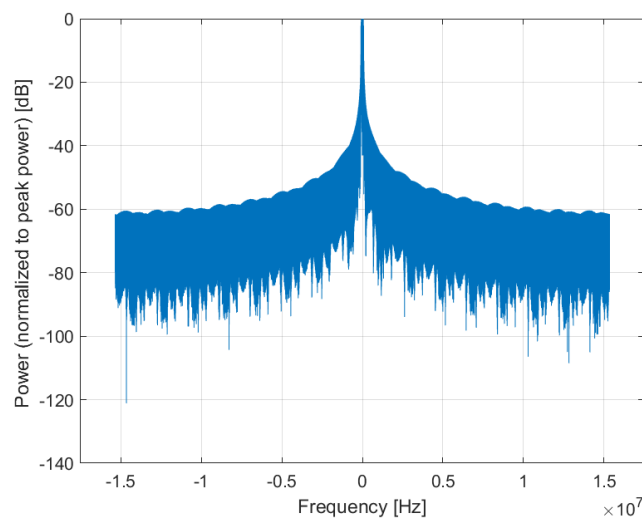
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

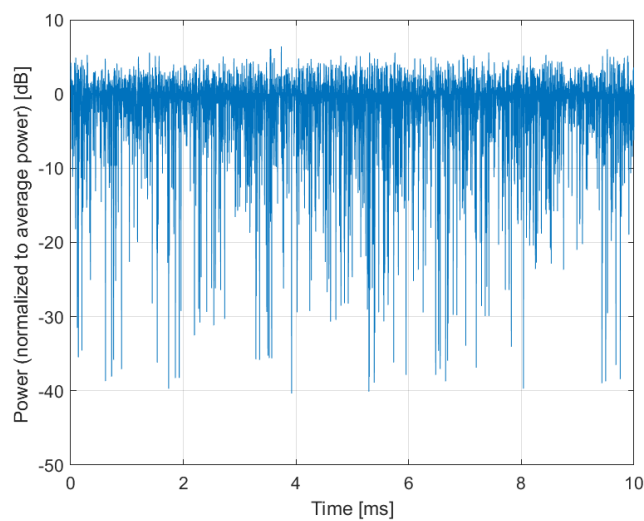
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10933-AAC

PAR: ¹ **5.51 dB**
MIF: ² **-15.06 dB**

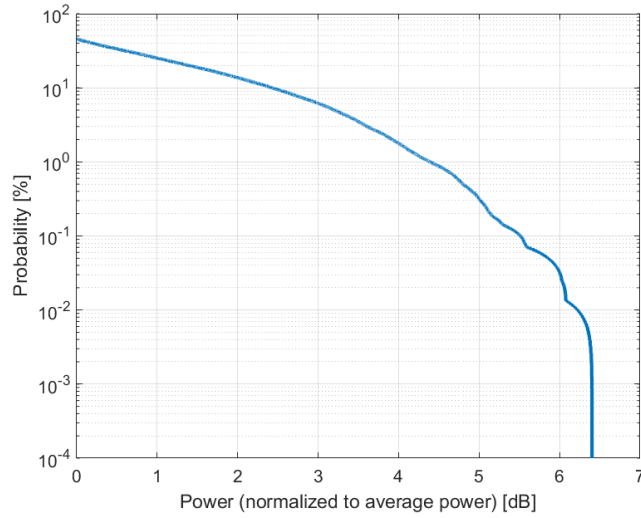
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n28 (703 - 748 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

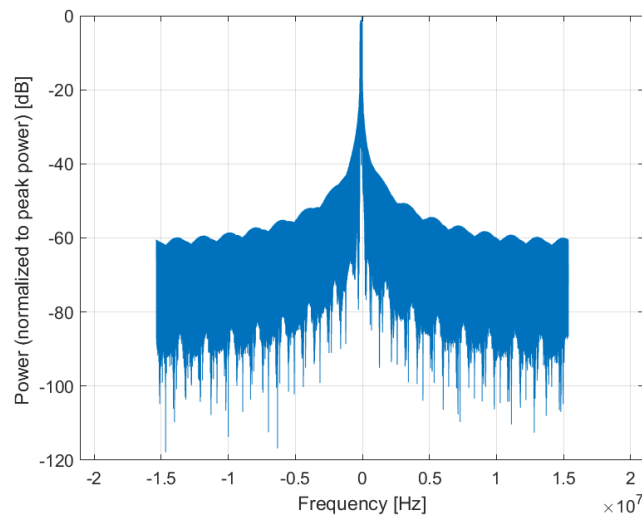
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

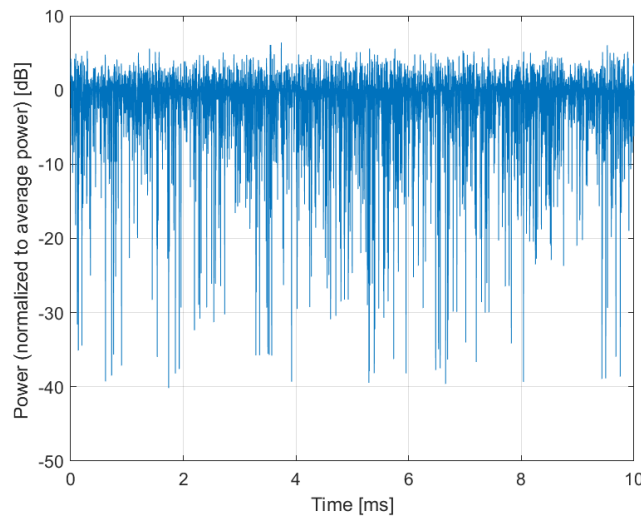
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10934-AAC

PAR: ¹ **5.51 dB**
MIF: ² **-15.07 dB**

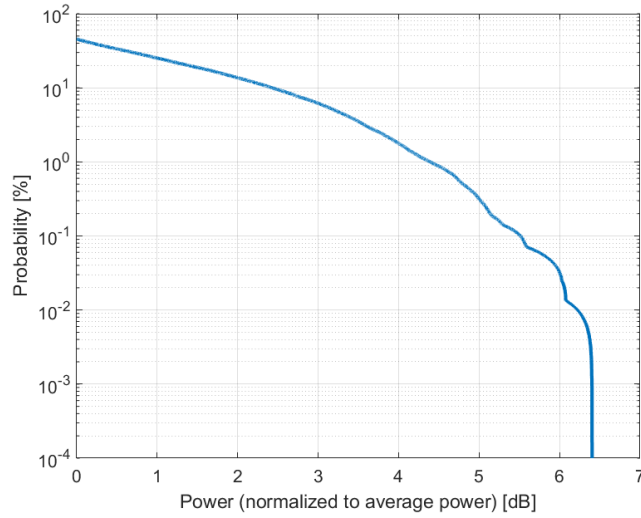
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n86 (1710 - 1780 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

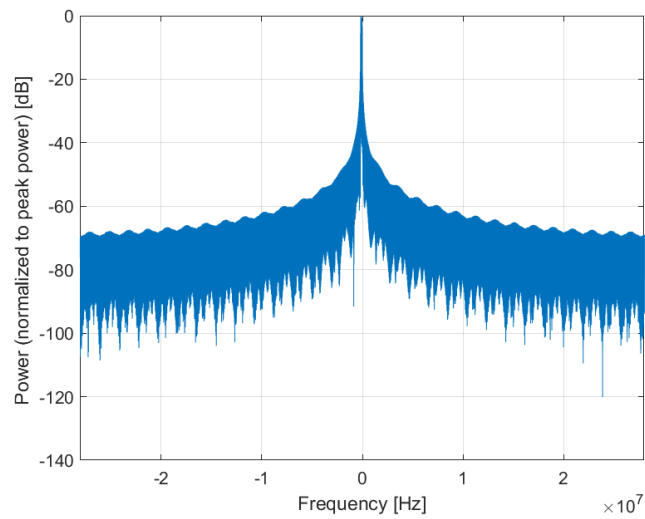
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

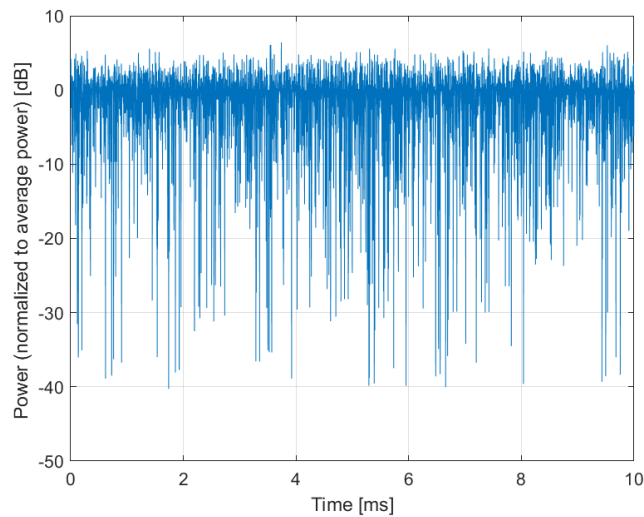
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10935-AAD

PAR: ¹ **5.51 dB**
MIF: ² **-15.07 dB**

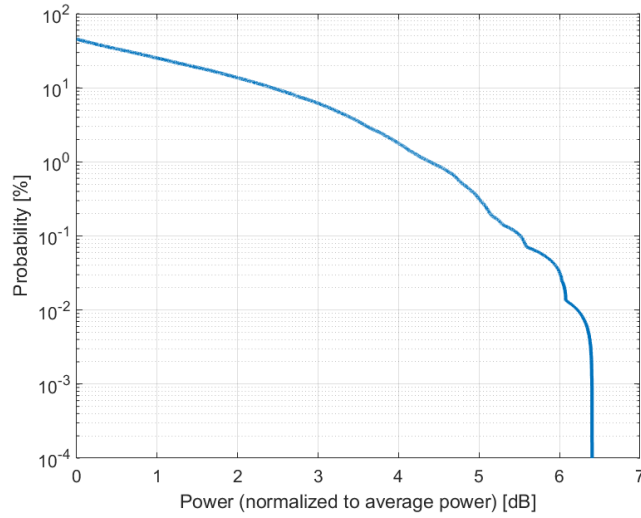
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n1 (1920 - 1980 MHz)
Band n7 (2500 - 2570 MHz)
Band n65 (1920 - 2010 MHz)
Band n97 (2300 - 2400 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

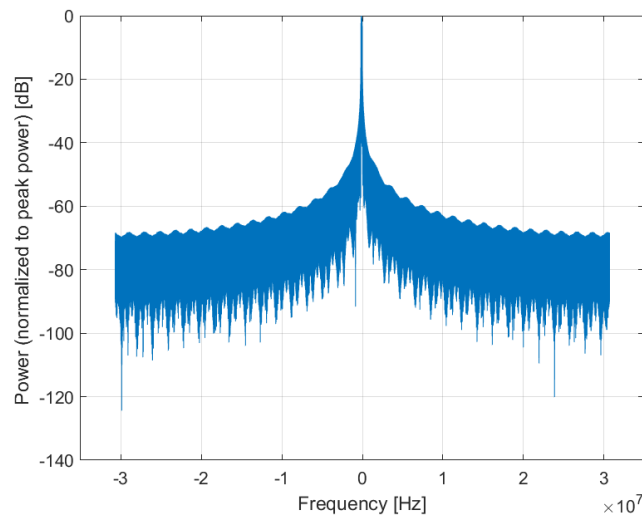
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

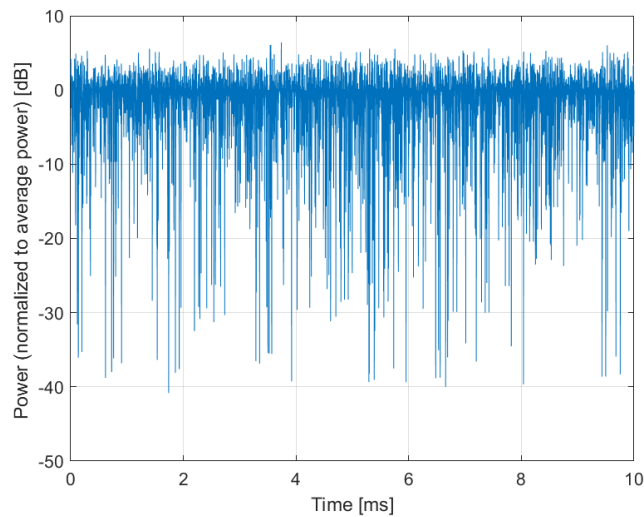
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10936-AAD

PAR: ¹ **5.90 dB**
MIF: ² **-17.91 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:

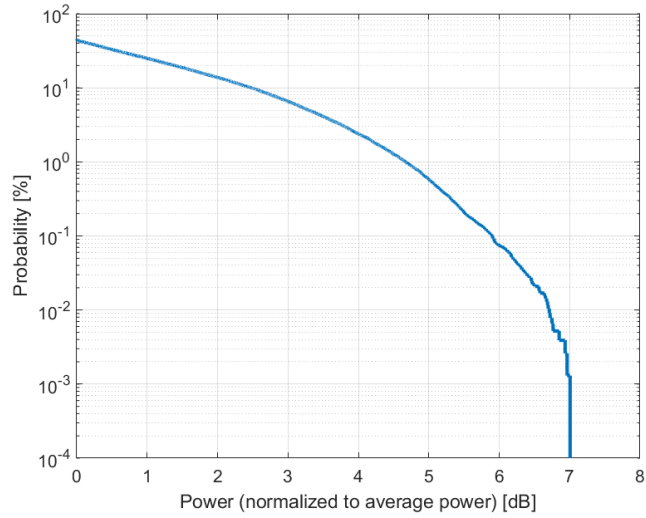
- Band n2 (1850 - 1910 MHz)
- Band n5 (824 - 849 MHz)
- Band n25 (1850 - 1915 MHz)
- Band n66 (1710 - 1780 MHz)
- Band n71 (663 - 698 MHz)
- Band n1 (1920 - 1980 MHz)
- Band n3 (1710 - 1785 MHz)
- Band n7 (2500 - 2570 MHz)
- Band n8 (880 - 915 MHz)
- Band n12 (699 - 716 MHz)
- Band n14 (788 - 798 MHz)
- Band n18 (815 - 830 MHz)
- Band n20 (832 - 862 MHz)
- Band n26 (814 - 849 MHz)
- Band n28 (703 - 748 MHz)
- Band n30 (2305 - 2315 MHz)
- Band n65 (1920 - 2010 MHz)
- Band n70 (1695 - 1710 MHz)
- Band n74 (1427 - 1470 MHz)
- Band n91 (832 - 862 MHz)
- Band n92 (832 - 862 MHz)
- Band n93 (880 - 915 MHz)
- Band n94 (880 - 915 MHz)
- Band n80 (1710 - 1785 MHz)
- Band n81 (880 - 915 MHz)
- Band n82 (832 - 862 MHz)
- Band n83 (703 - 748 MHz)
- Band n84 (1920 - 1980 MHz)
- Band n86 (1710 - 1780 MHz)
- Band n89 (824 - 849 MHz)
- Band n95 (2010 - 2025 MHz)
- Band n24 (1626.5 - 1660.5 MHz)
- Band n97 (2300 - 2400 MHz)
- Band n98 (1880 - 1920 MHz)
- Band n99 (1626.5 - 1660.5 MHz)
- Band n13 (777 - 787 MHz)
- Band n100 (874.4 - 880 MHz)
- Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

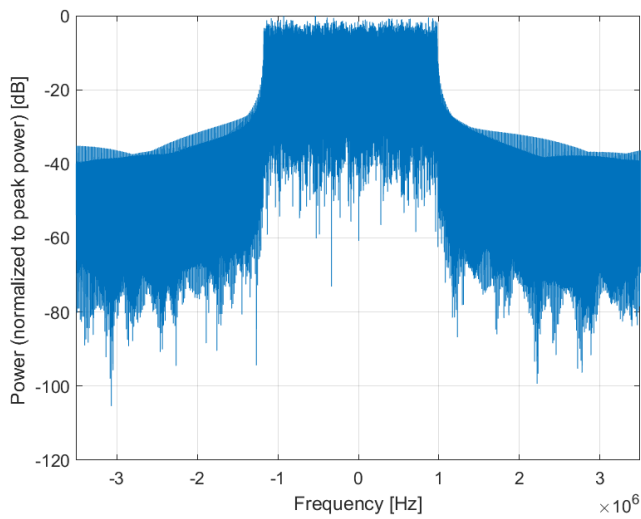
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

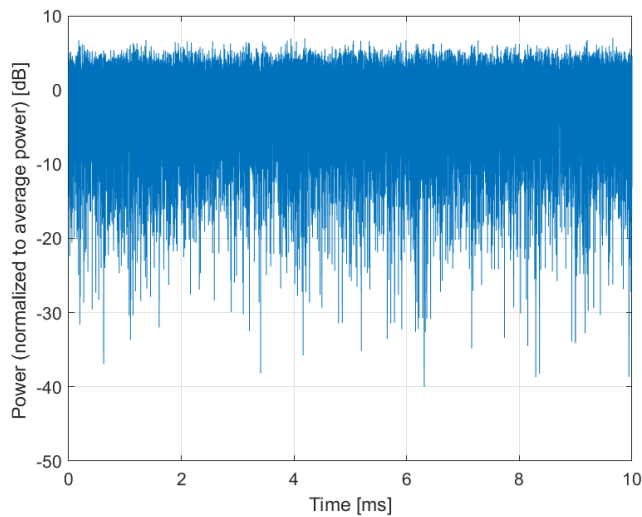
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10937-AAD

PAR: ¹ **5.77 dB**
MIF: ² **-18.38 dB**

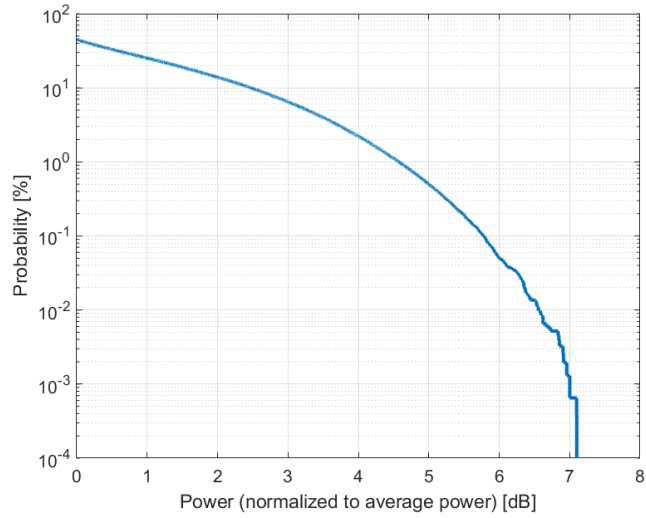
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n14 (788 - 798 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n30 (2305 - 2315 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n91 (832 - 862 MHz)
Band n92 (832 - 862 MHz)
Band n93 (880 - 915 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n24 (1626.5 - 1660.5 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Band n99 (1626.5 - 1660.5 MHz)
Band n13 (777 - 787 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

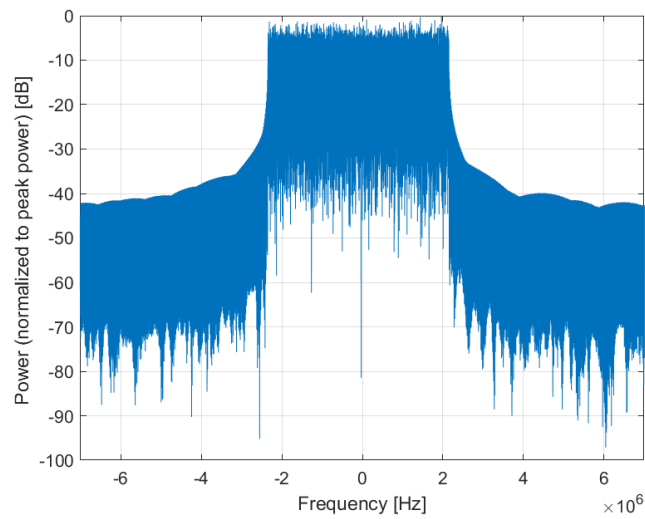
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

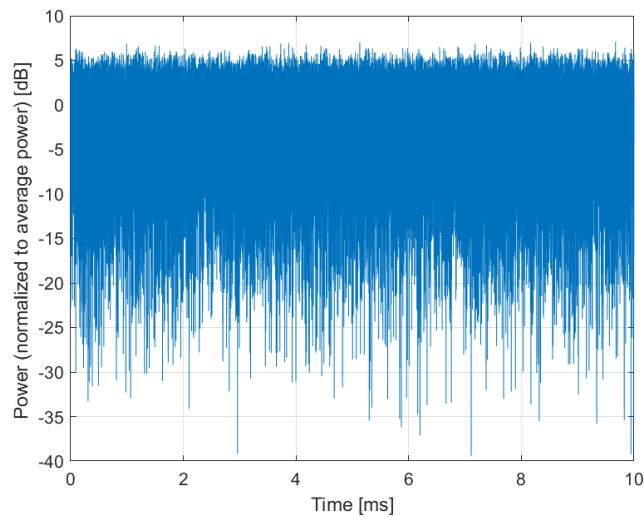
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10938-AAC

PAR: ¹ **5.90 dB**
MIF: ² **-18.58 dB**

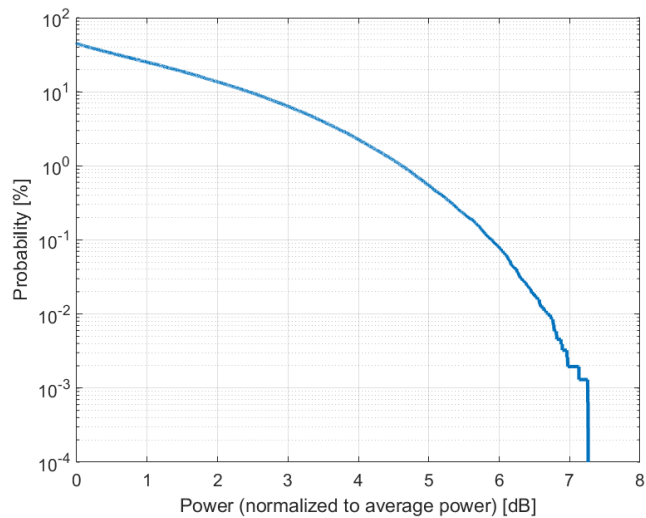
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

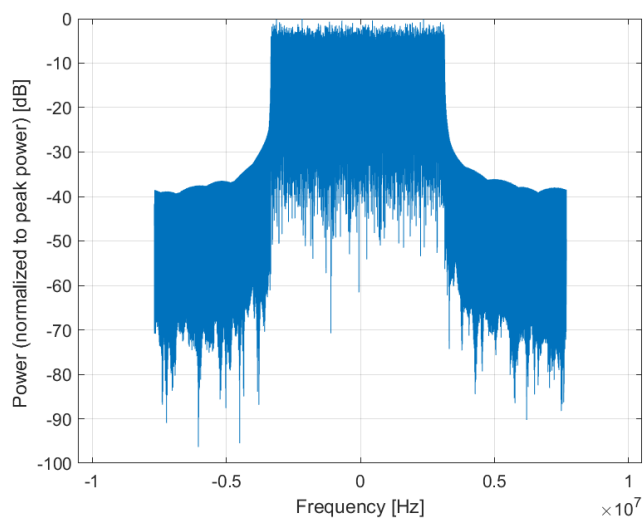
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

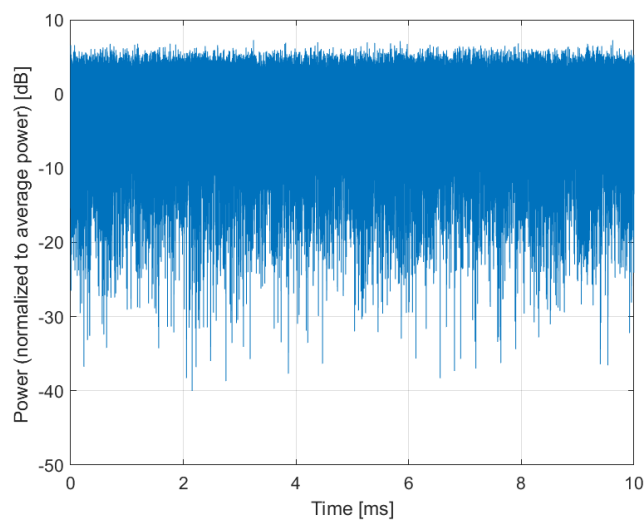
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10939-AAC

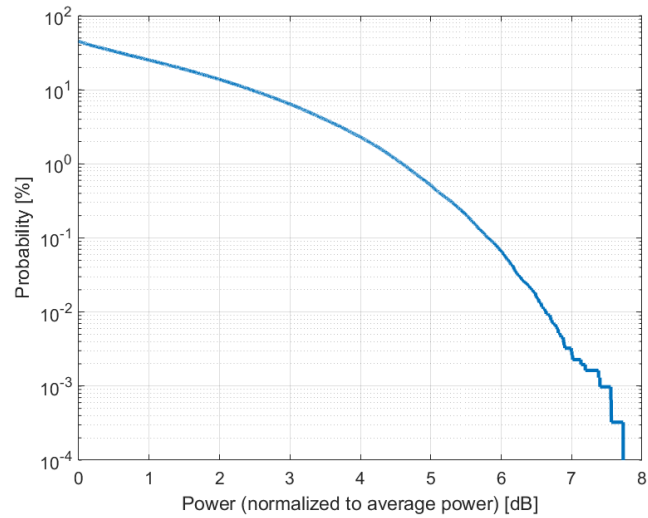
PAR: ¹ **5.82 dB**
MIF: ² **-18.65 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:
Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

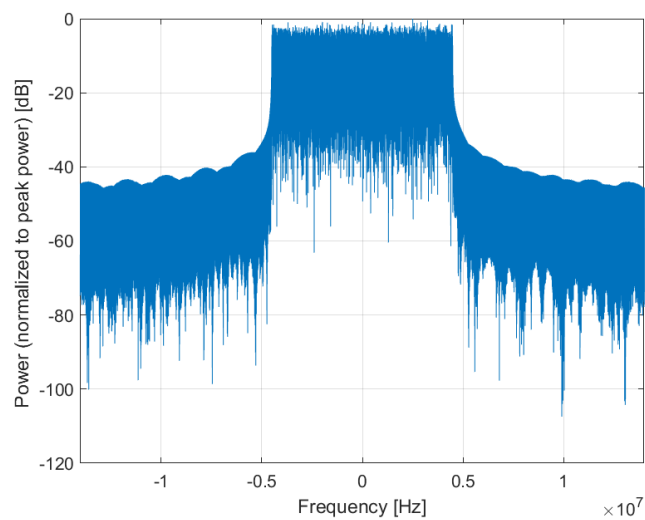
Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

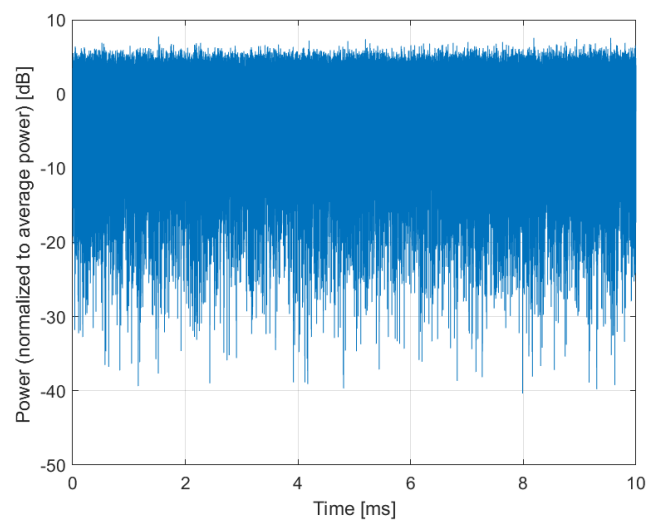
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10940-AAC

PAR: ¹ **5.89 dB**
MIF: ² **-18.65 dB**

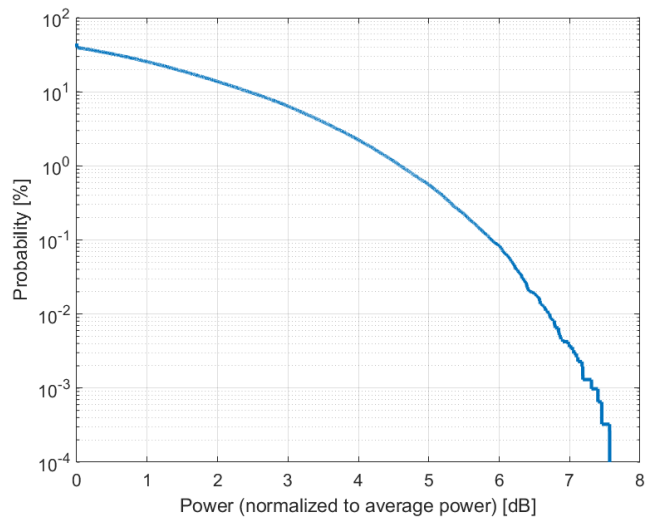
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

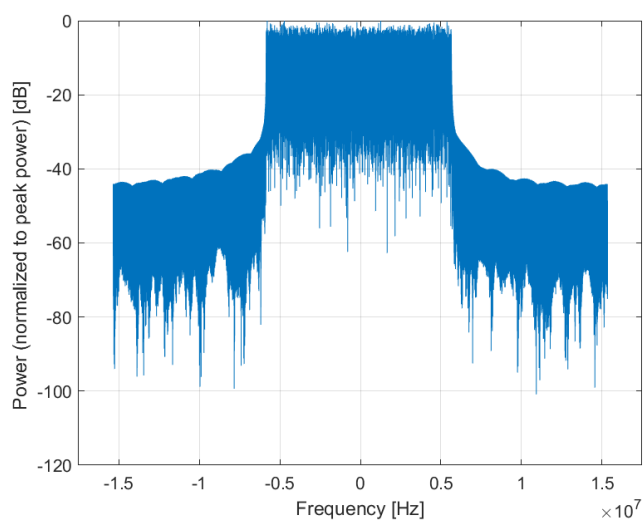
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

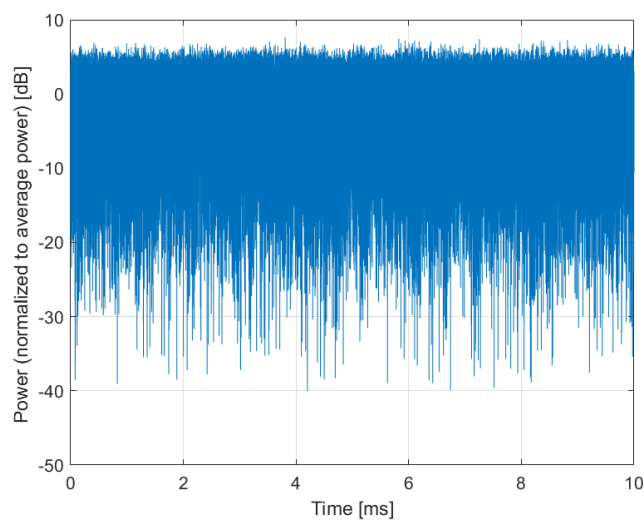
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10941-AAC

PAR: ¹ **5.83 dB**
MIF: ² **-18.66 dB**

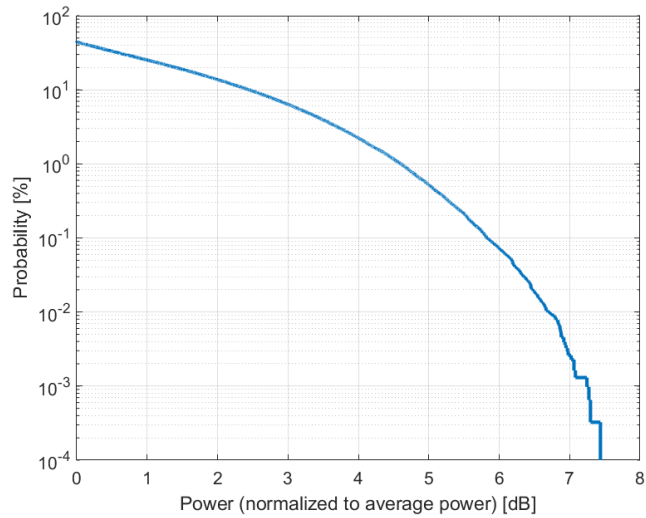
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n28 (703 - 748 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

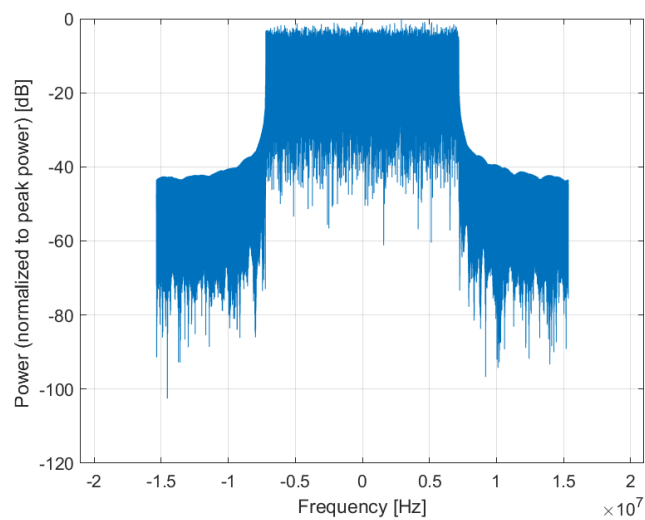
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

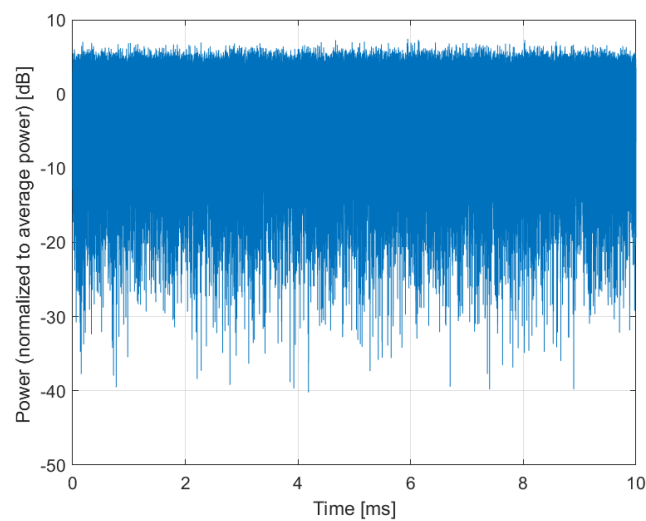
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10942-AAC

PAR: ¹ **5.85 dB**
MIF: ² **-18.71 dB**

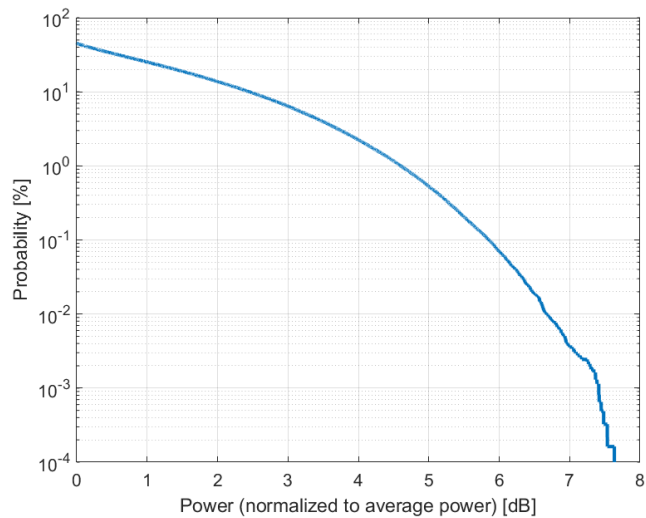
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n86 (1710 - 1780 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

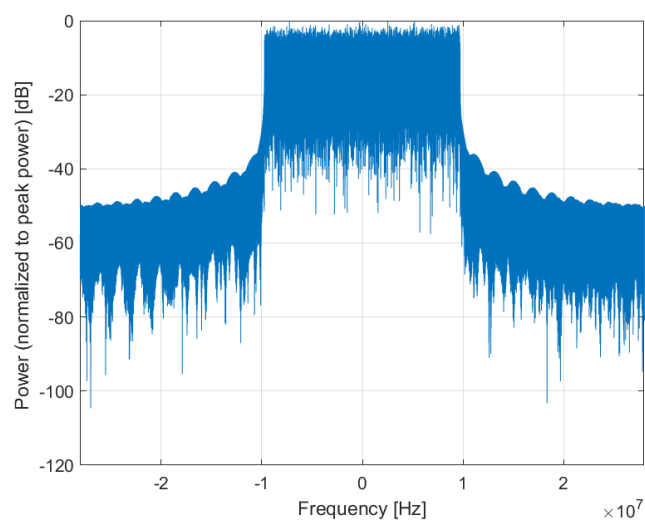
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

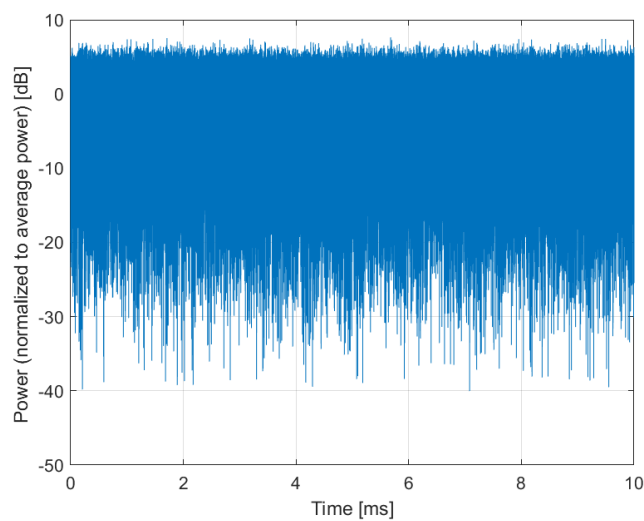
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10943-AAD

PAR: ¹ **5.95 dB**
MIF: ² **-18.52 dB**

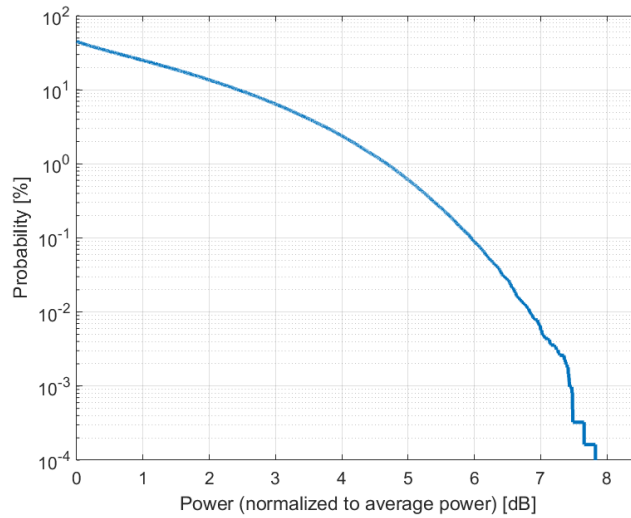
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n1 (1920 - 1980 MHz)
Band n7 (2500 - 2570 MHz)
Band n65 (1920 - 2010 MHz)
Band n97 (2300 - 2400 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

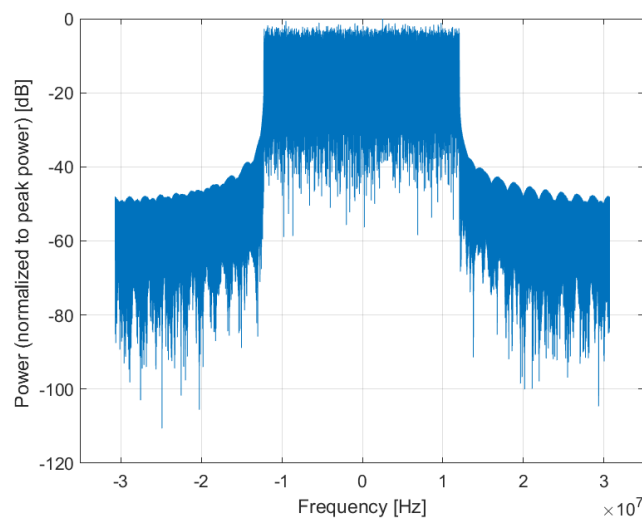
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

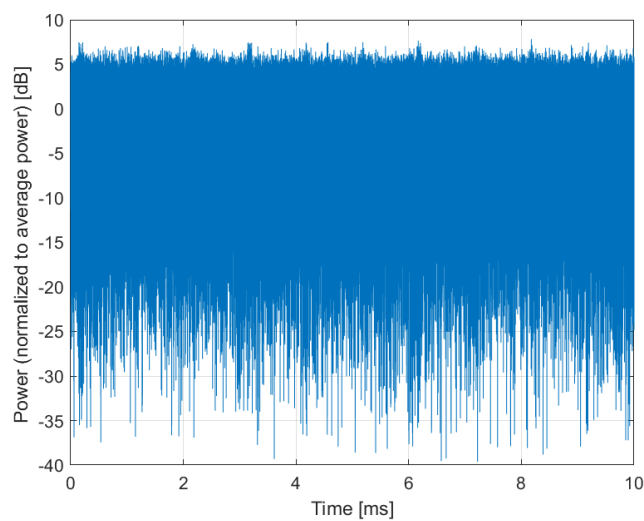
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10944-AAD

PAR: ¹ **5.81 dB**
MIF: ² **-18.38 dB**

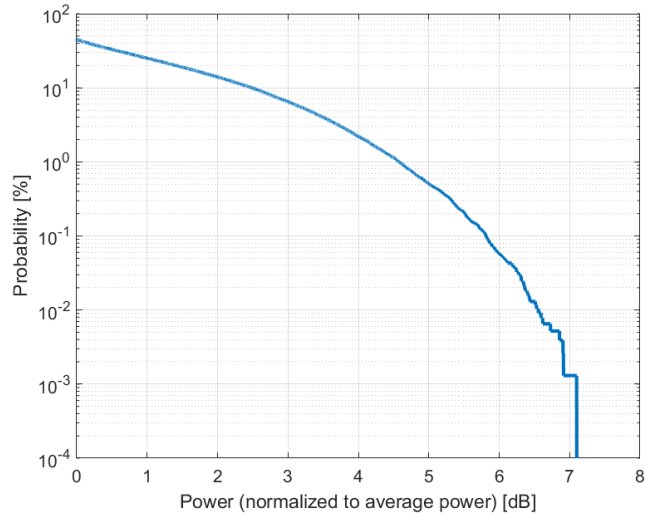
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n14 (788 - 798 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n30 (2305 - 2315 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n91 (832 - 862 MHz)
Band n92 (832 - 862 MHz)
Band n93 (880 - 915 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n24 (1626.5 - 1660.5 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Band n99 (1626.5 - 1660.5 MHz)
Band n13 (777 - 787 MHz)
Band n100 (874.4 - 880 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

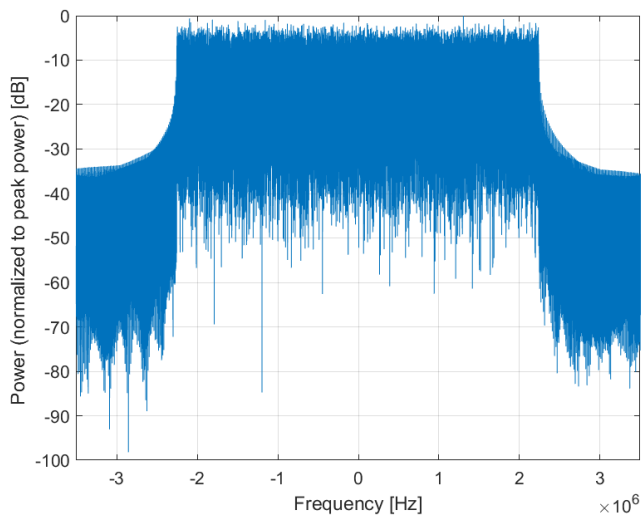
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

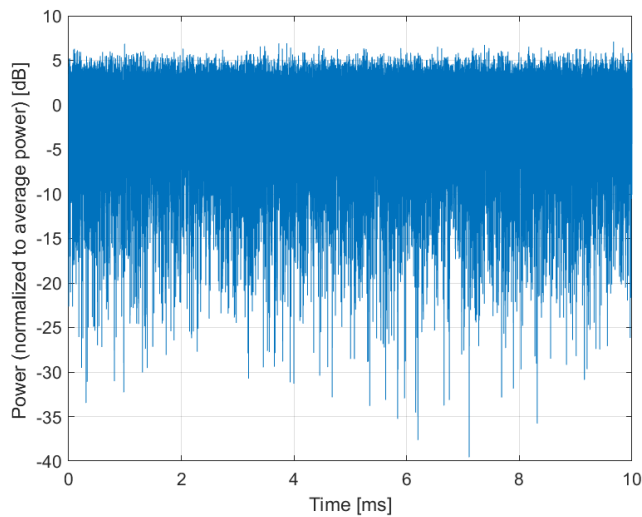
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10945-AAD

PAR: ¹ **5.85 dB**
MIF: ² **-18.65 dB**

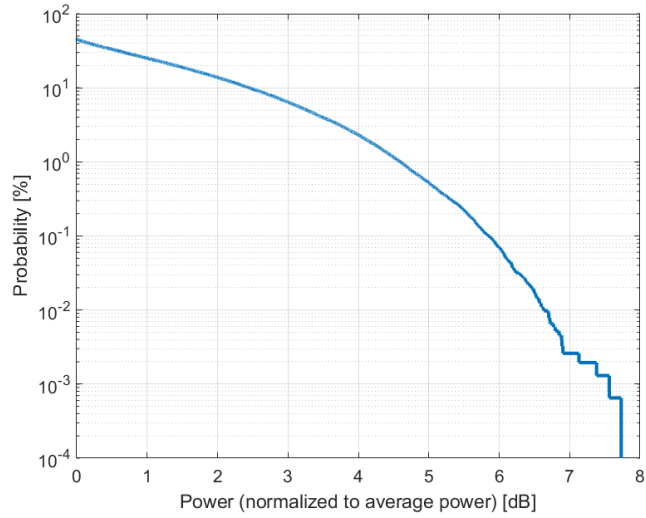
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n14 (788 - 798 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n30 (2305 - 2315 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n91 (832 - 862 MHz)
Band n92 (832 - 862 MHz)
Band n93 (880 - 915 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n24 (1626.5 - 1660.5 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Band n99 (1626.5 - 1660.5 MHz)
Band n13 (777 - 787 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

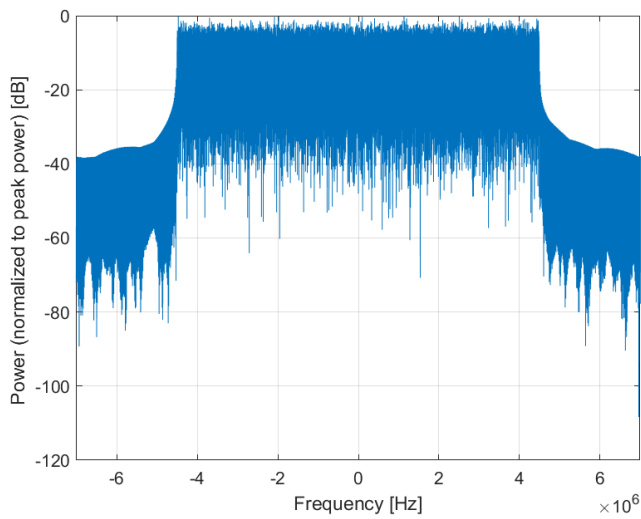
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

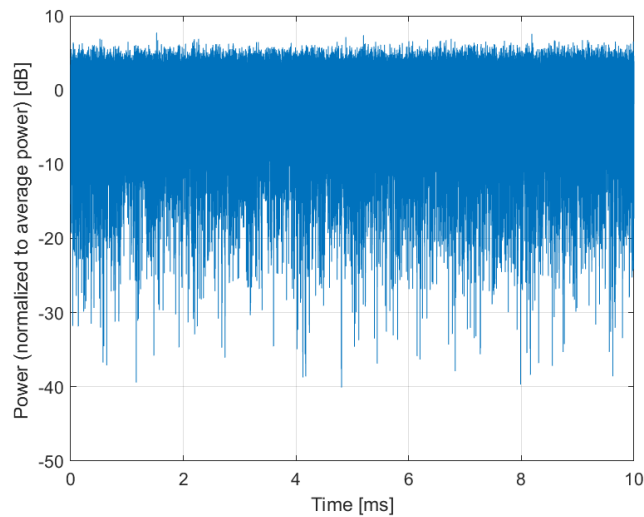
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



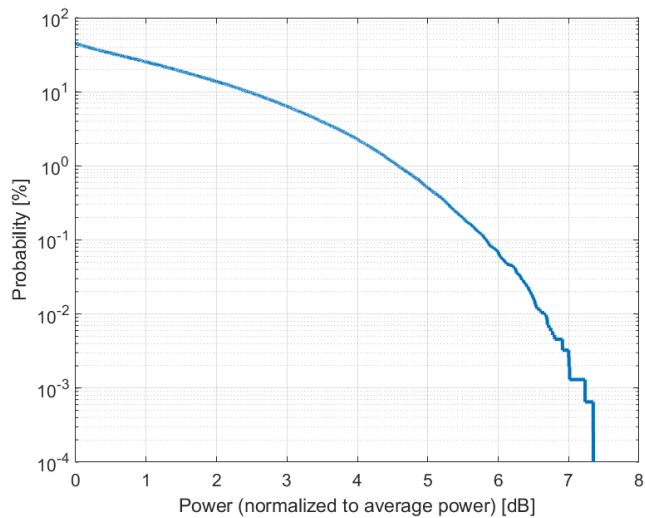
Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

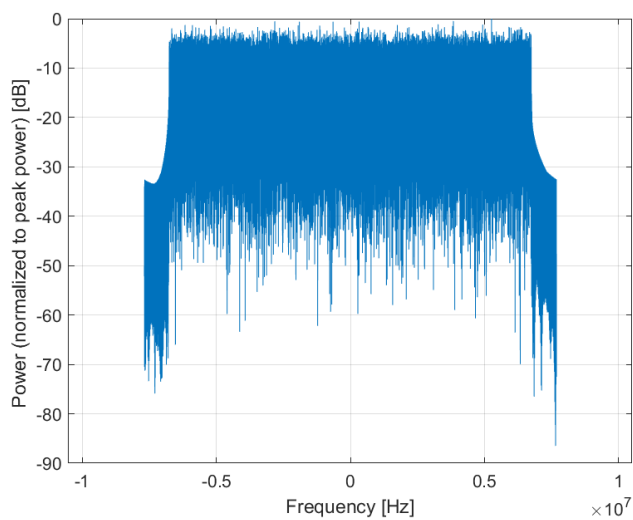
| | |
|-------------------------|--|
| Name: | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) |
| Group: | 5G NR FR1 FDD |
| UID: | 10946-AAC |
| PAR: ¹ | 5.83 dB |
| MIF: ² | -18.70 dB |
| Standard Reference: | SPEAG |
| Category: | Random amplitude modulation |
| Modulation: | QPSK |
| Frequency Band: | Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz) |
| Detailed Specification: | Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9 |
| Bandwidth: | 15.0 MHz |
| Integration Time: | 10.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

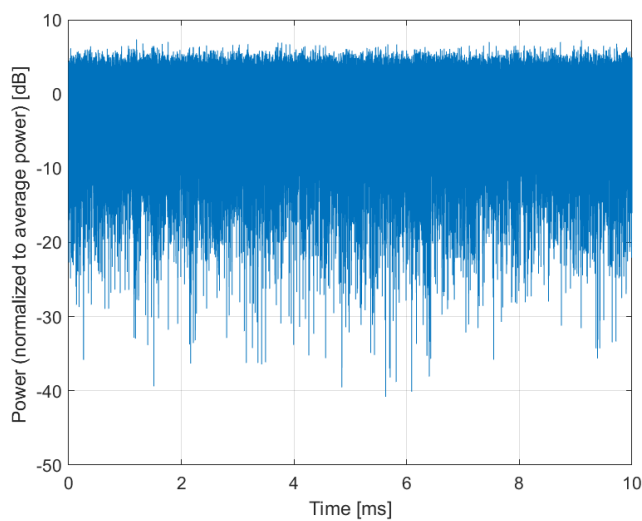
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10947-AAC

PAR: ¹ **5.87 dB**
MIF: ² **-18.60 dB**

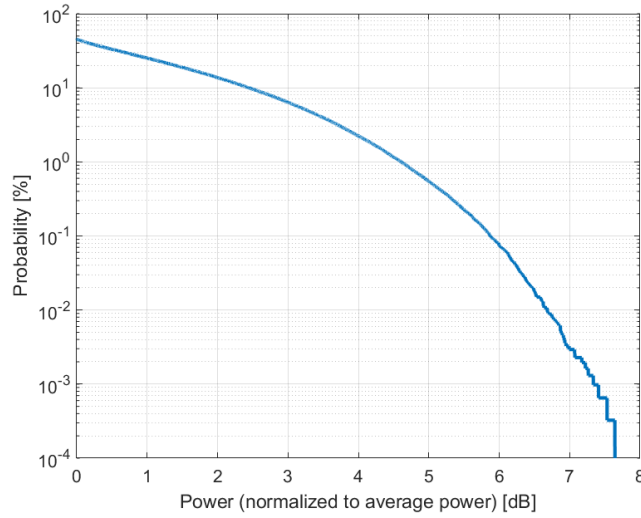
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

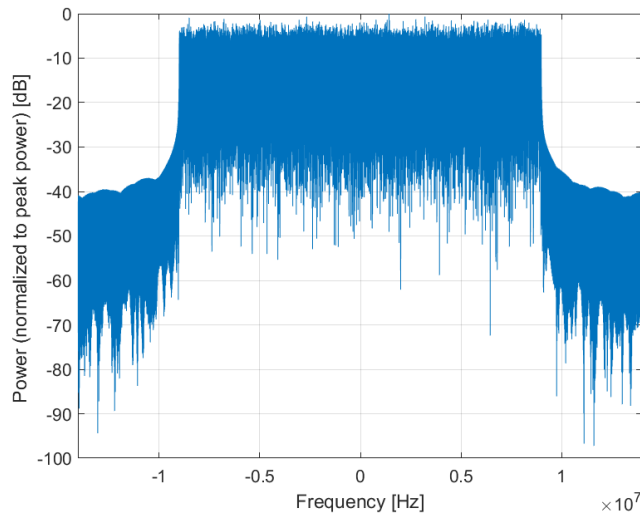
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

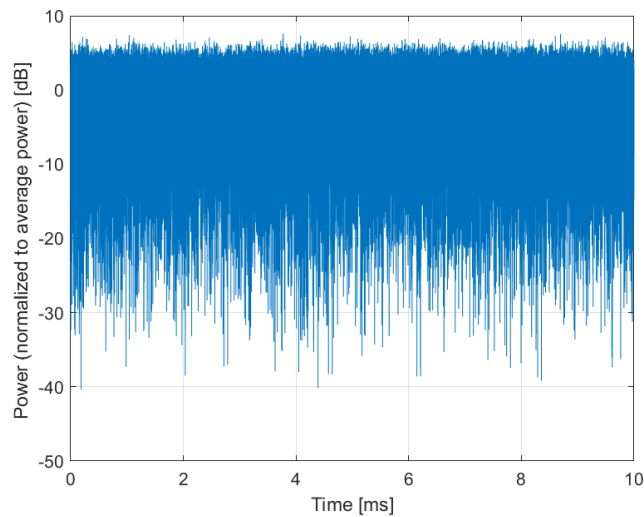
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10948-AAC

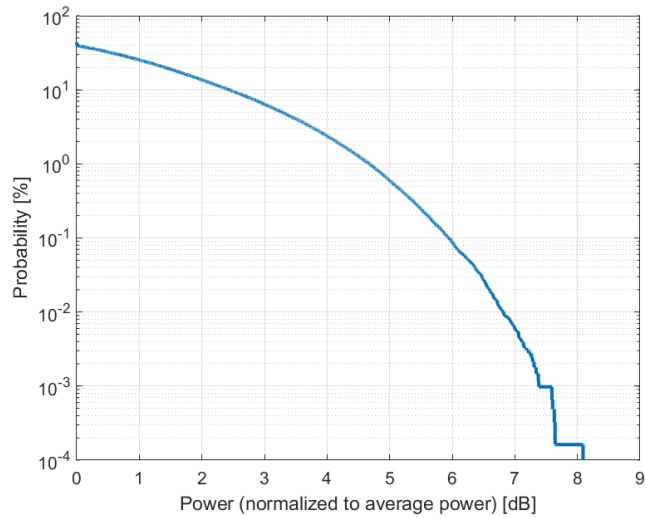
PAR: ¹ **5.94 dB**
MIF: ² **-18.50 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

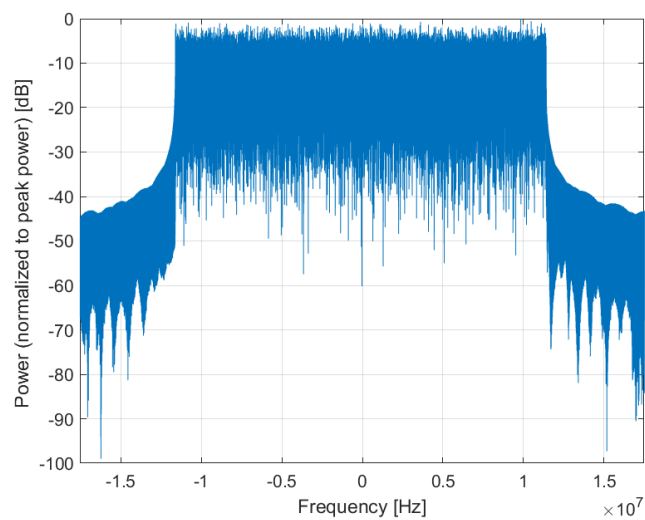
Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

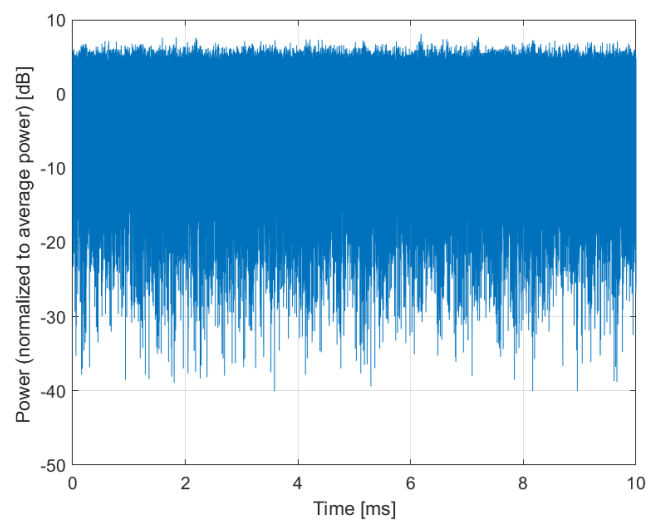
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10949-AAC

PAR: ¹ **5.87 dB**
MIF: ² **-18.85 dB**

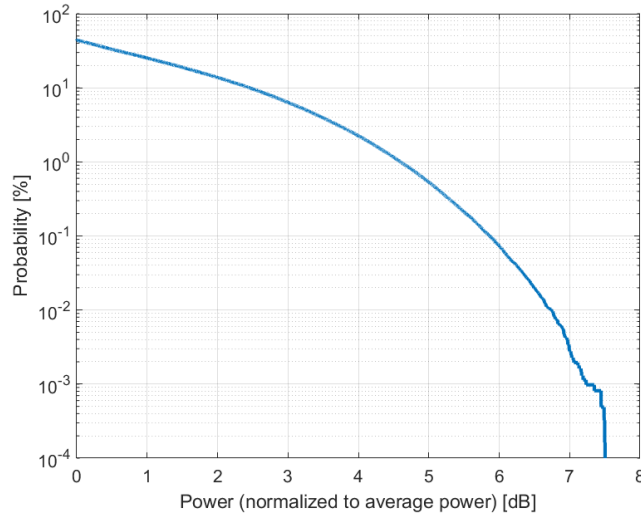
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n28 (703 - 748 MHz)
Band n80 (1710 - 1785 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

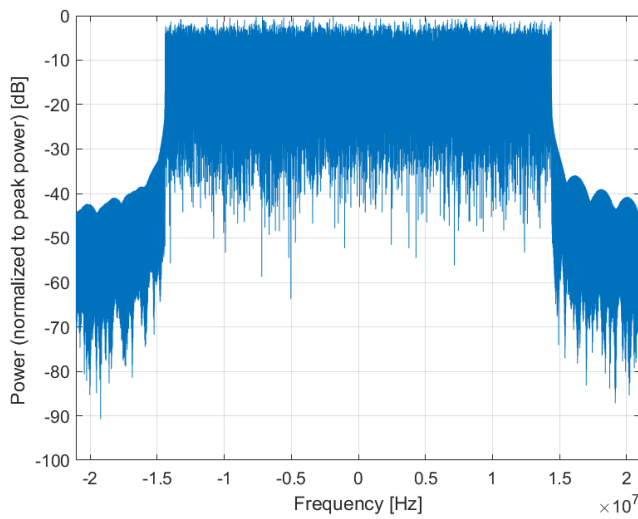
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

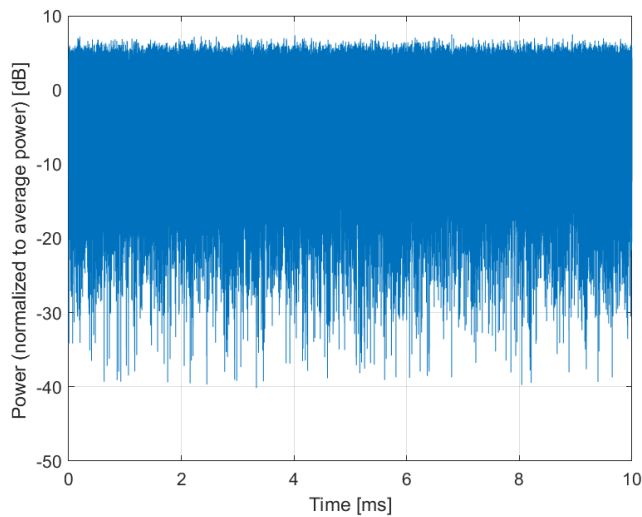
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10950-AAC

PAR: ¹ **5.94 dB**
MIF: ² **-18.50 dB**

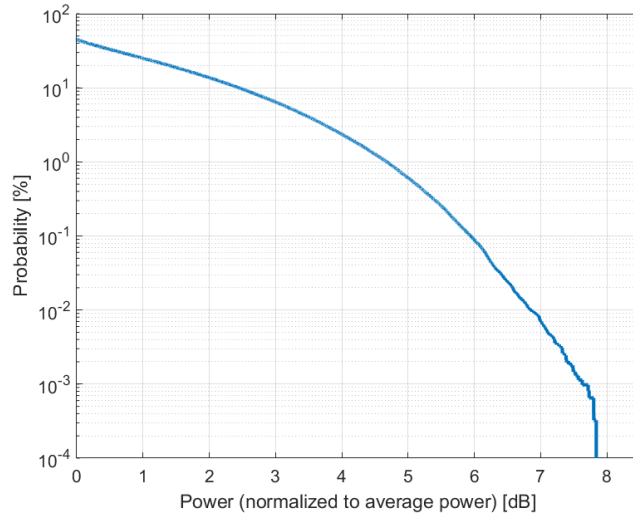
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n86 (1710 - 1780 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

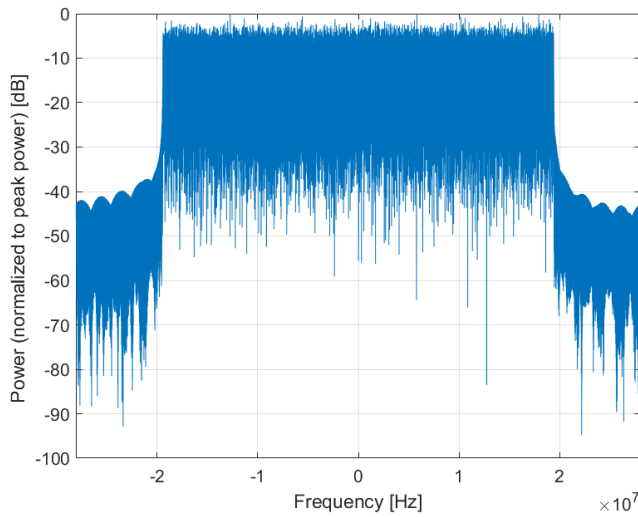
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

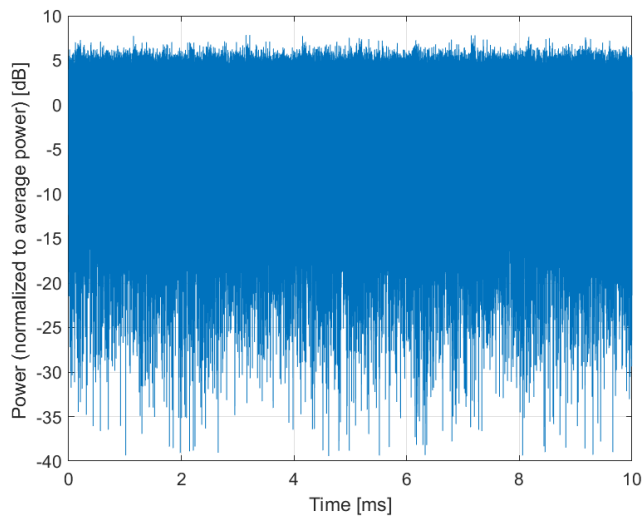
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10951-AAD

PAR: ¹ **5.92 dB**
MIF: ² **-18.56 dB**

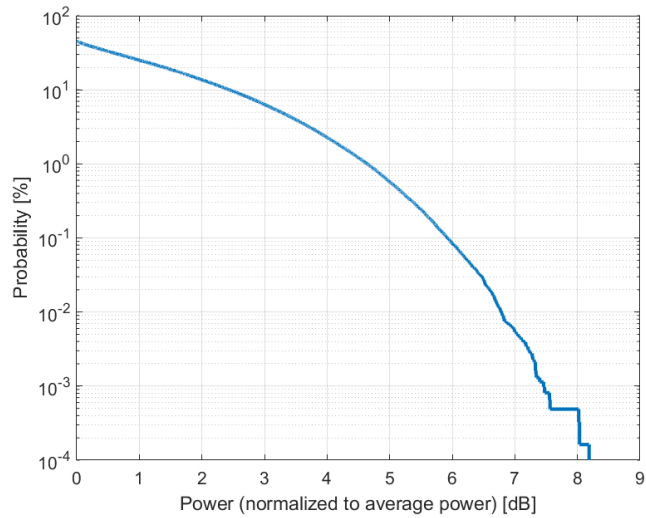
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n1 (1920 - 1980 MHz)
Band n7 (2500 - 2570 MHz)
Band n65 (1920 - 2010 MHz)
Band n97 (2300 - 2400 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

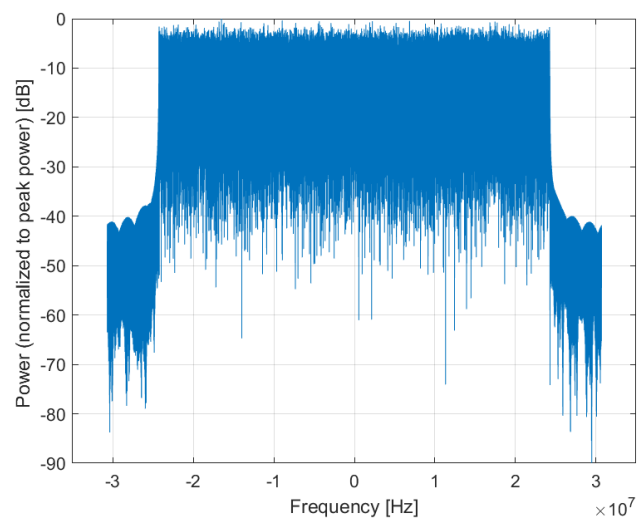
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

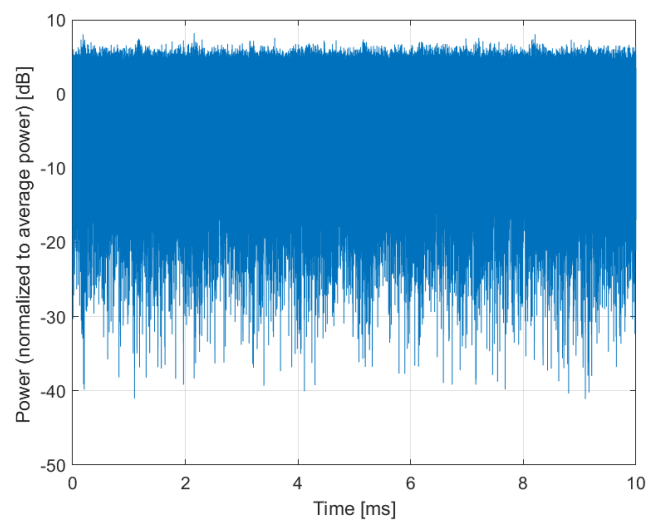
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10952-AAA

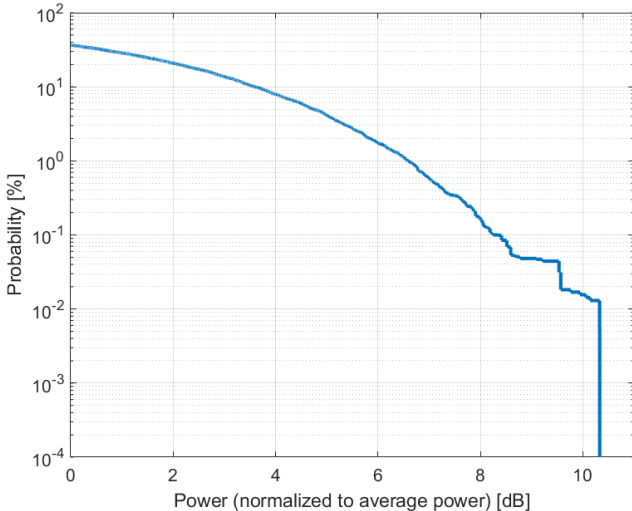
PAR: ¹ **8.25 dB**
MIF: ² **-16.10 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

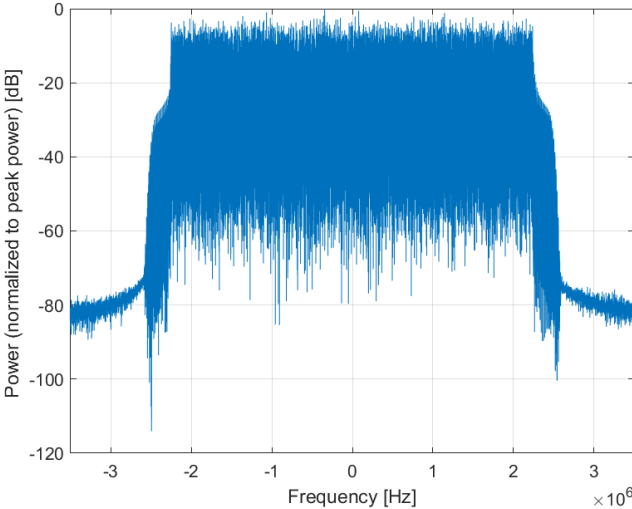
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

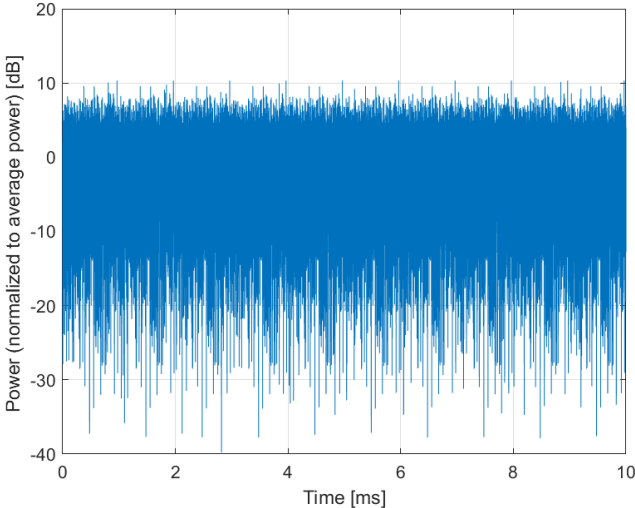
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10953-AAA

PAR: ¹ **8.15 dB**
MIF: ² **-18.27 dB**

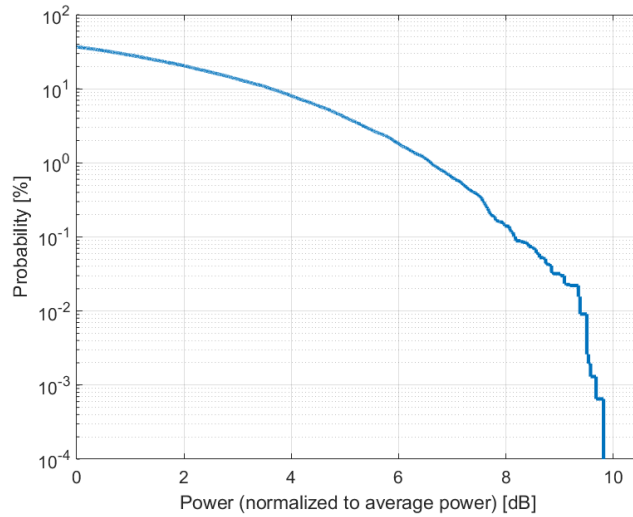
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

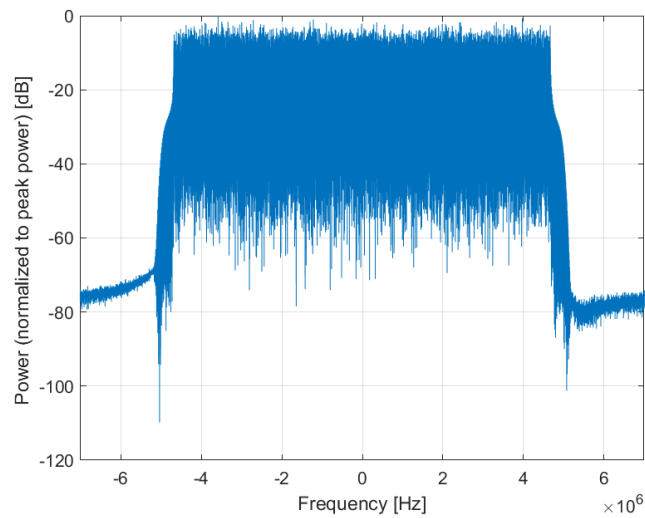
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

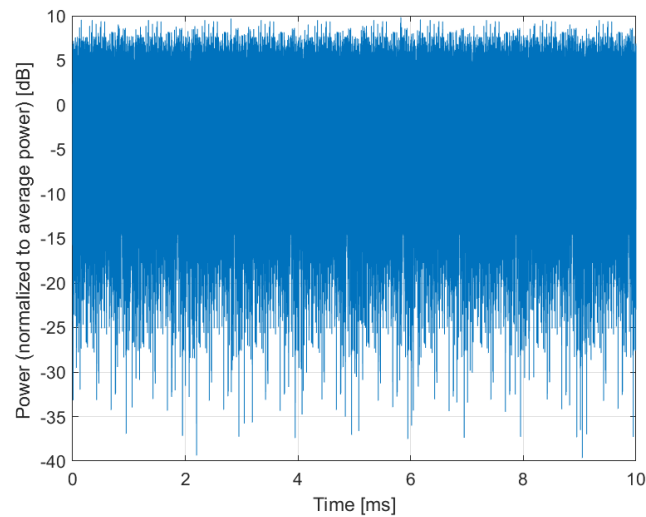
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10954-AAA

PAR: ¹ **8.23 dB**
MIF: ² **-20.40 dB**

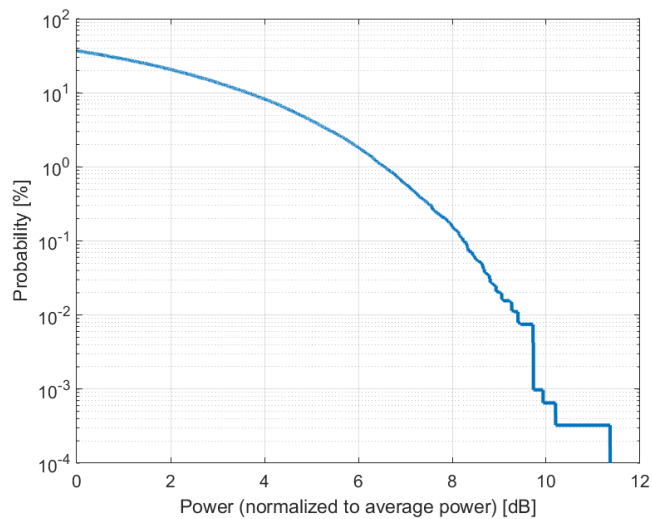
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

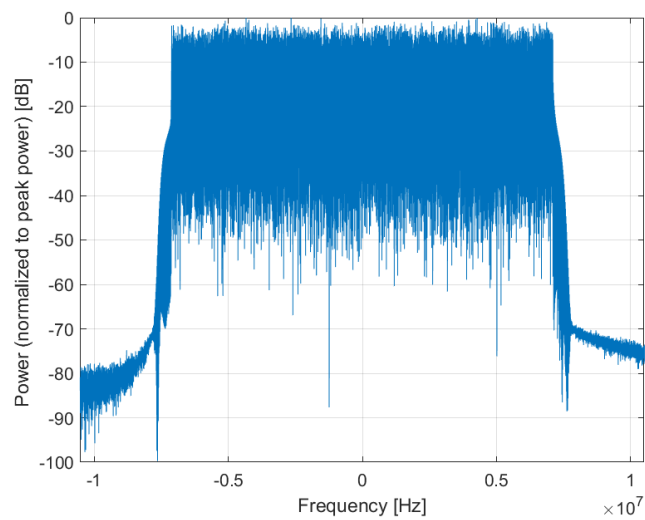
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

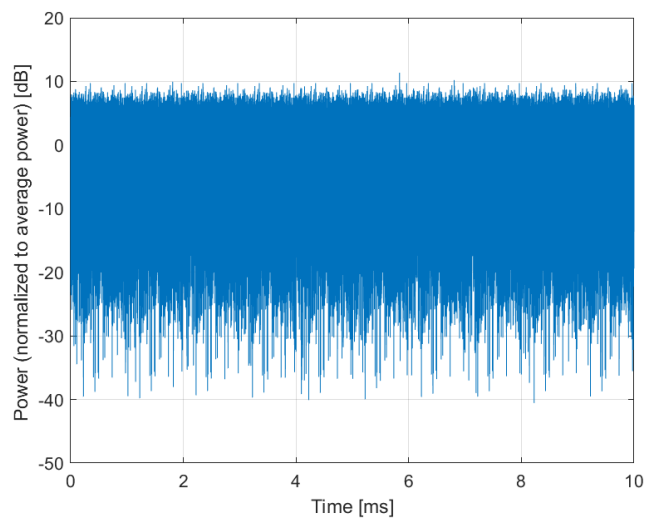
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10955-AAA

PAR: ¹ **8.42 dB**
MIF: ² **-22.55 dB**

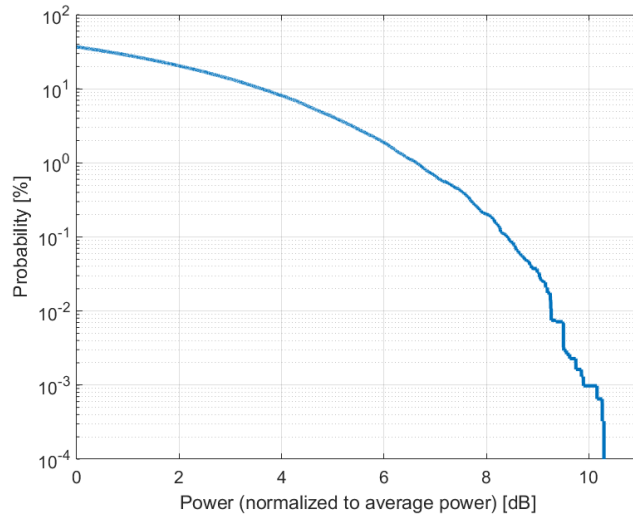
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

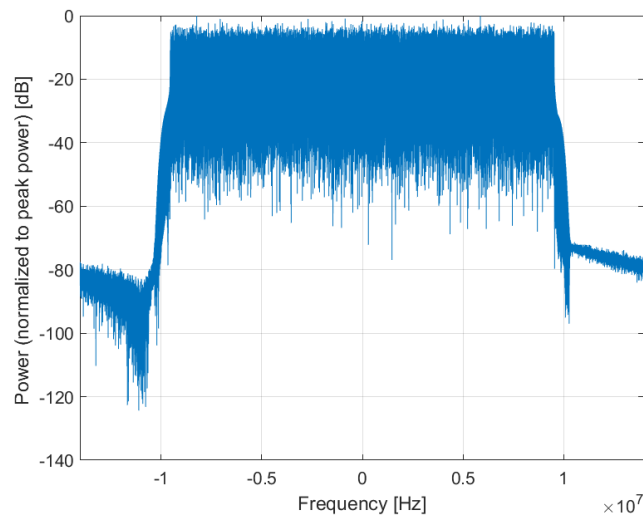
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

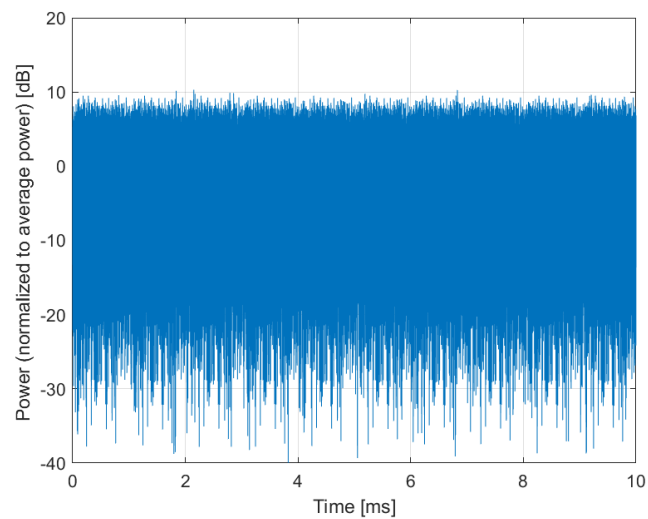
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 10956-AAA

PAR: ¹ **8.14 dB**
MIF: ² **-16.37 dB**

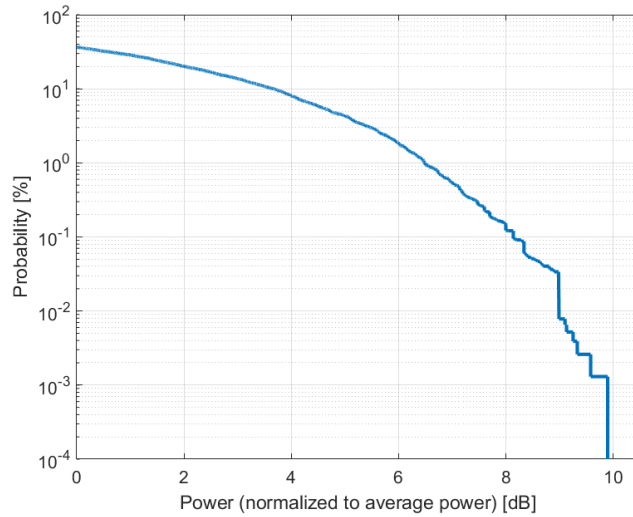
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

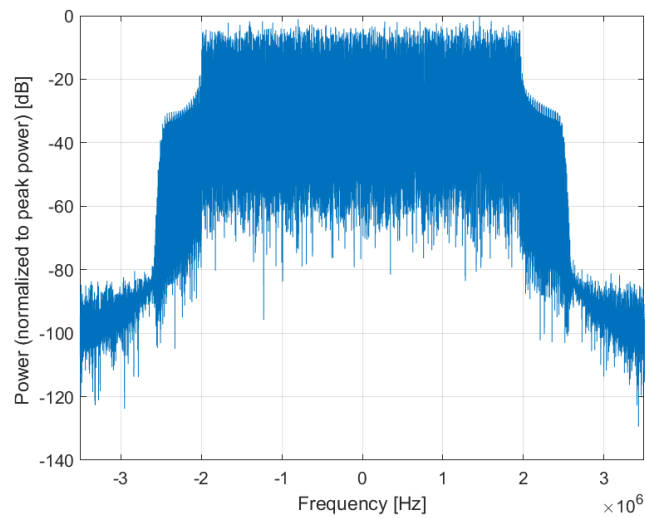
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

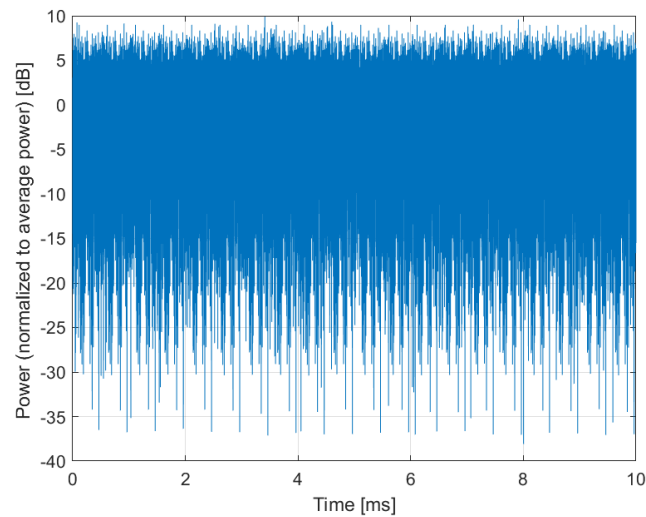
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 10957-AAA

PAR: ¹ **8.31 dB**
MIF: ² **-18.08 dB**

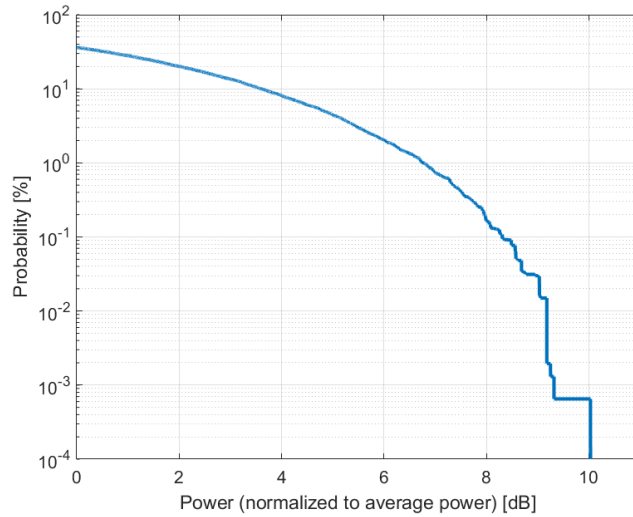
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

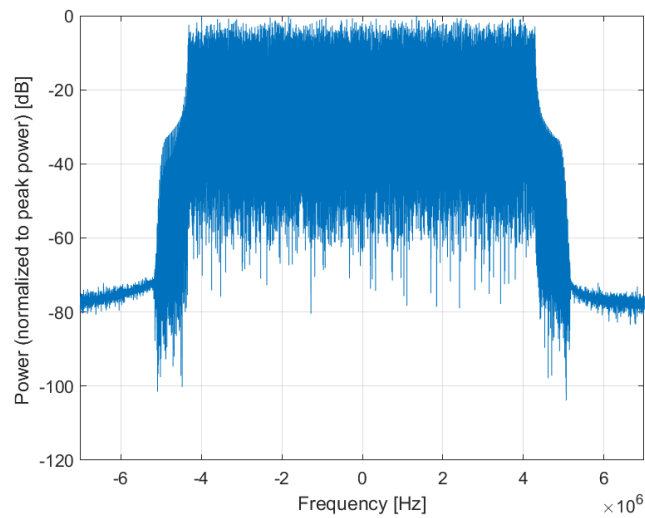
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

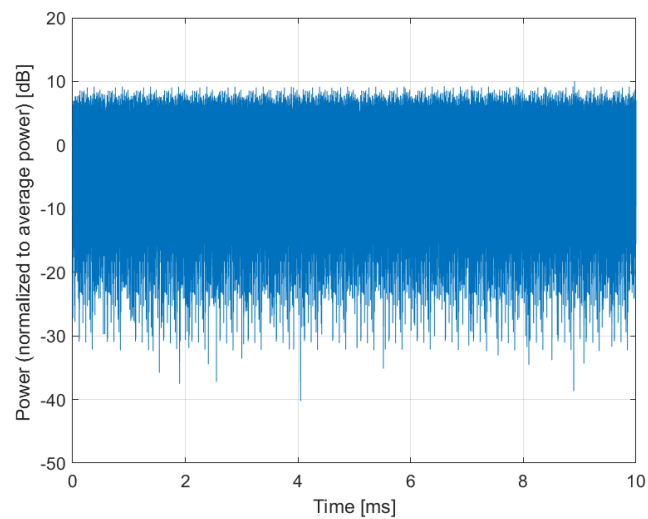
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 10958-AAA

PAR: ¹ **8.61 dB**
MIF: ² **-20.42 dB**

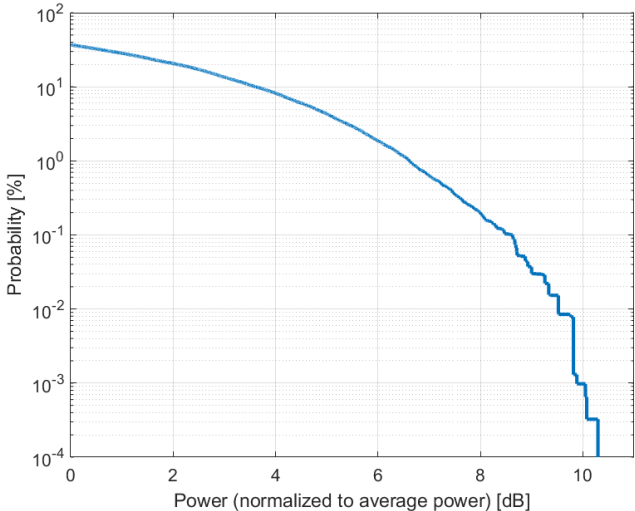
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

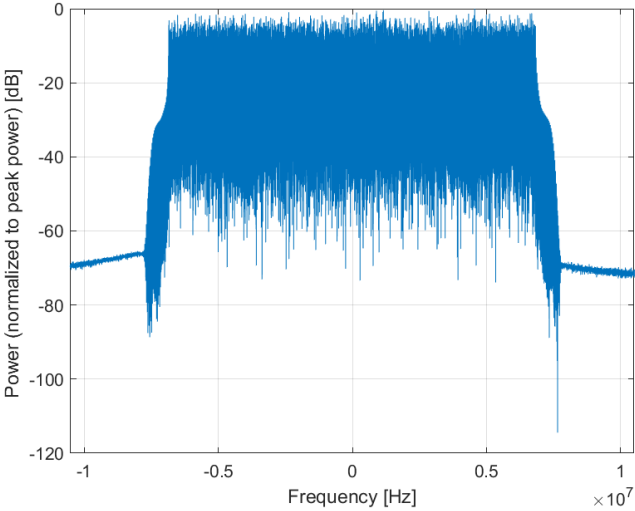
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

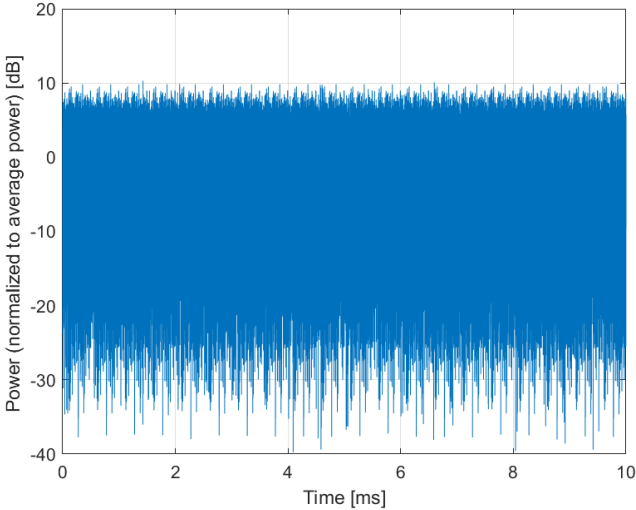
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 10959-AAA

PAR: ¹ **8.33 dB**
MIF: ² **-22.82 dB**

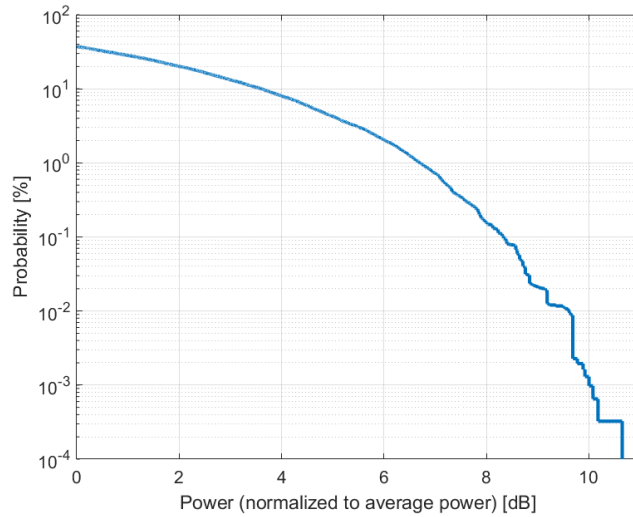
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

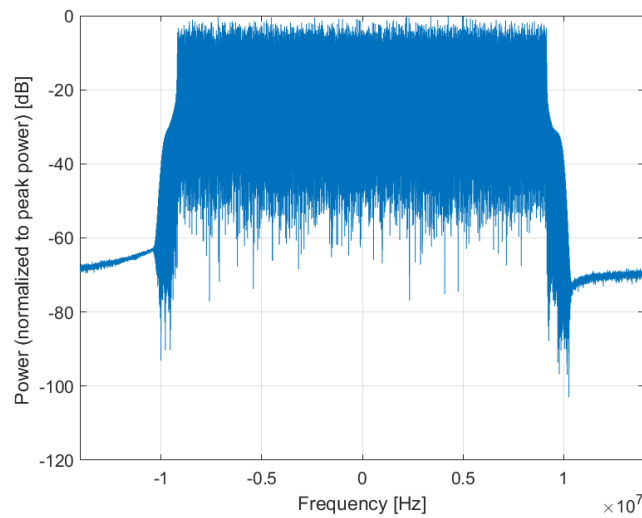
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

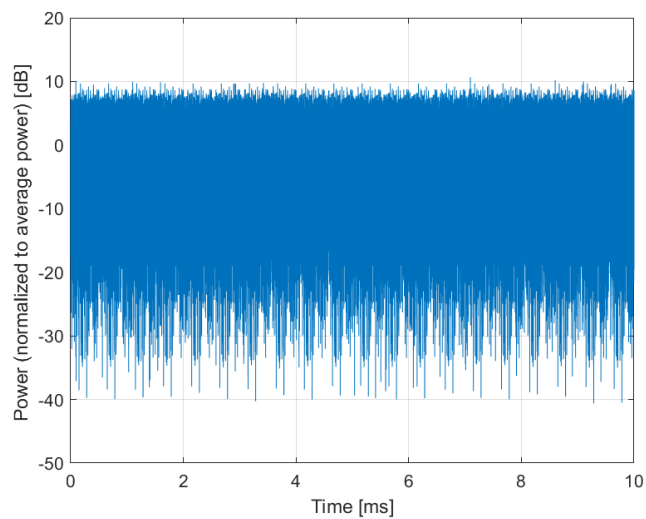
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10960-AAE

PAR: ¹ **9.32 dB**
MIF: ² **-4.24 dB**

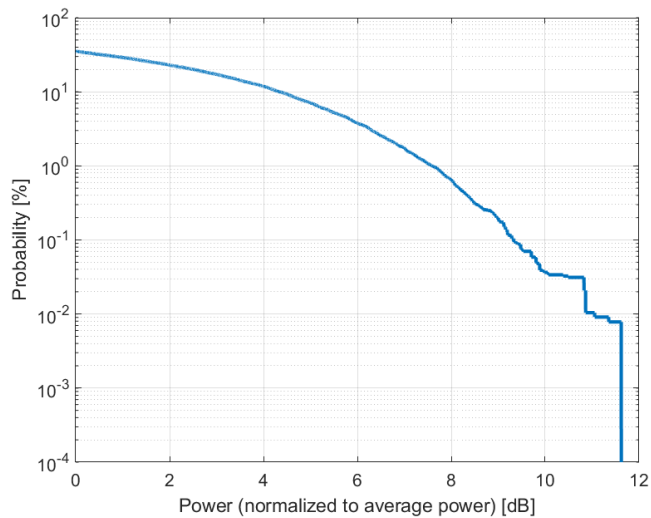
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band:
Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

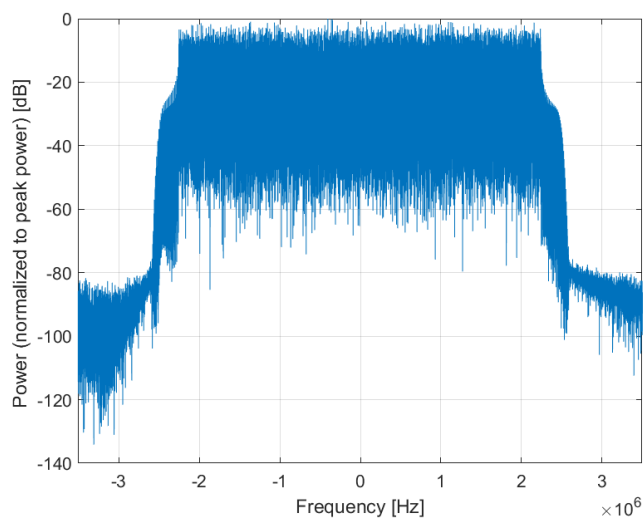
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

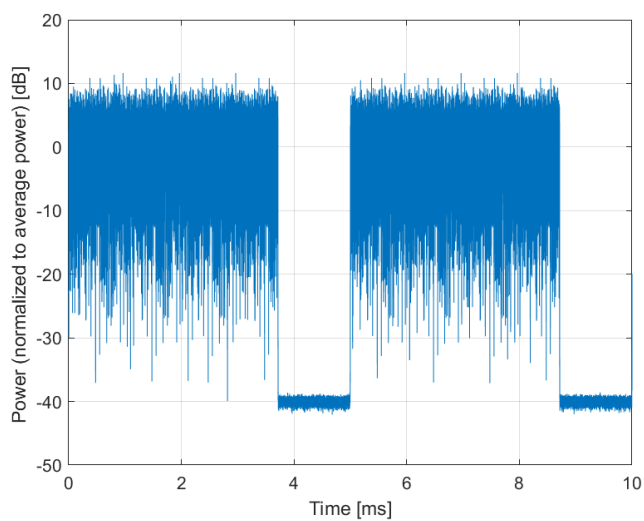
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10961-AAC

PAR: ¹ **9.36 dB**
MIF: ² **-4.22 dB**

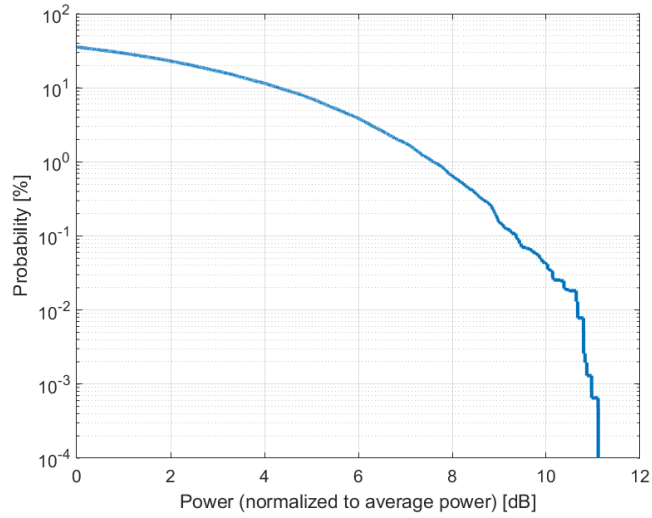
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

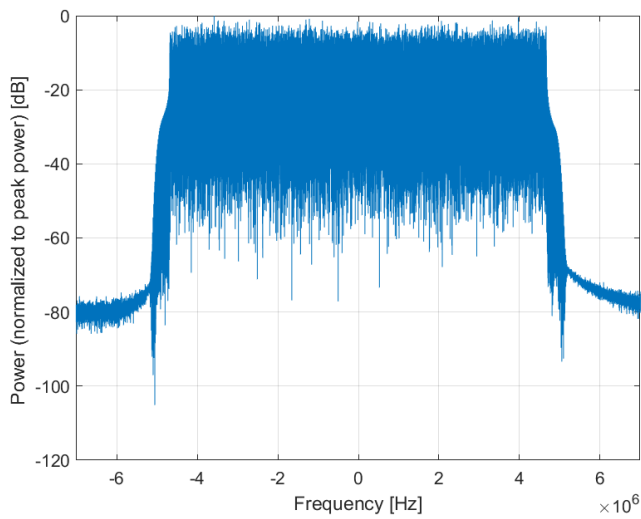
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

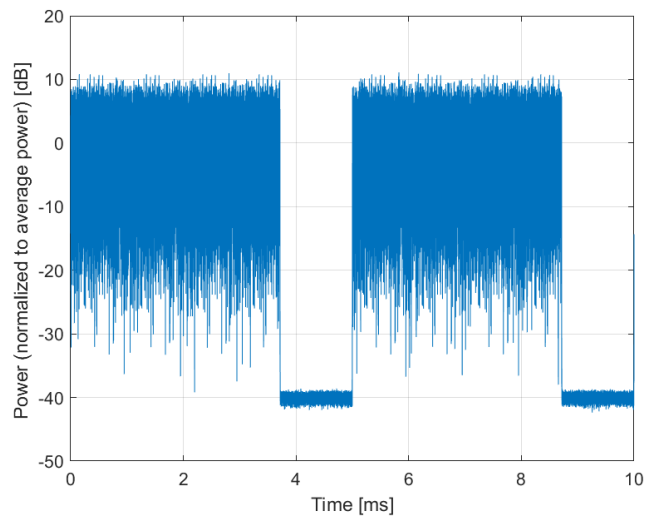
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10962-AAB

PAR: ¹ **9.40 dB**
MIF: ² **-4.22 dB**

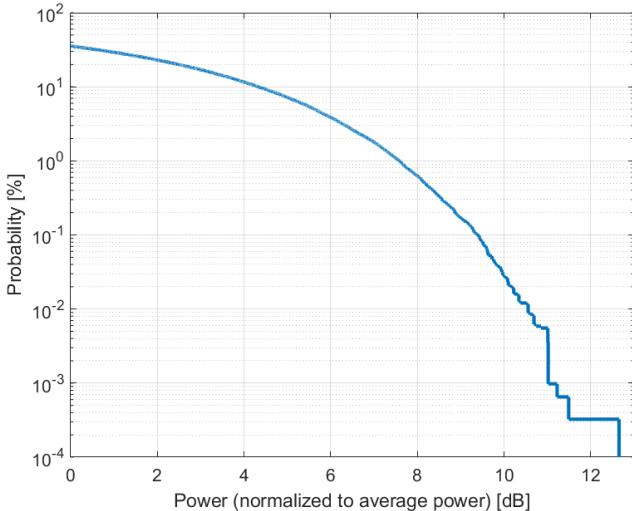
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

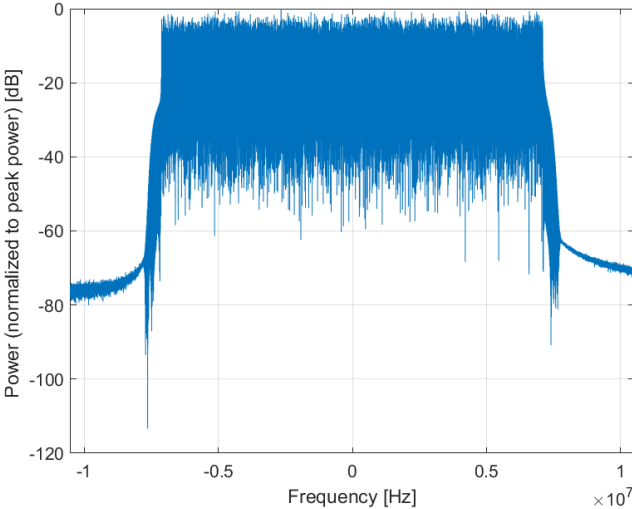
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

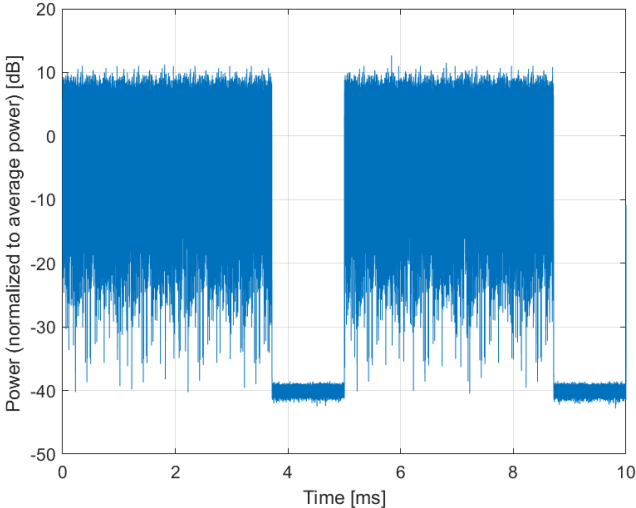
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10963-AAC

PAR: ¹ **9.55 dB**
MIF: ² **-4.23 dB**

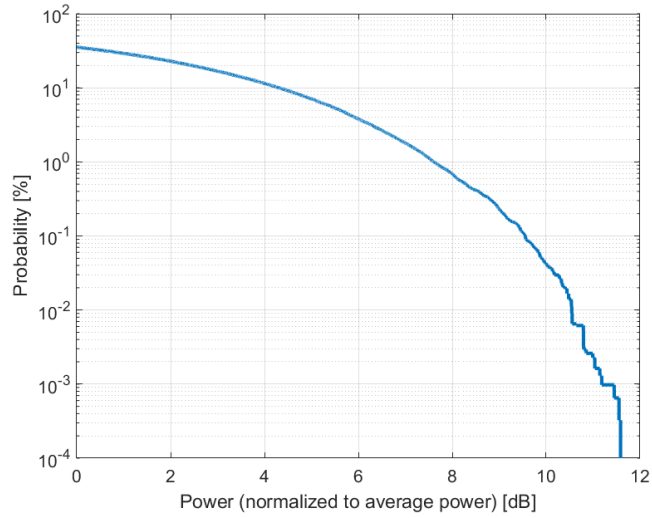
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

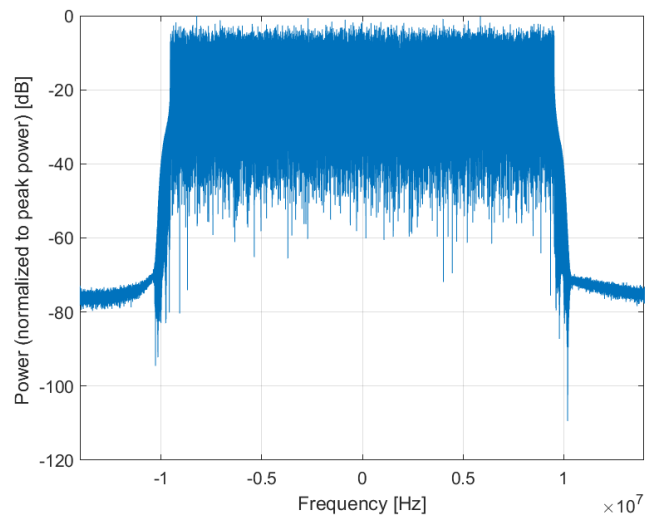
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

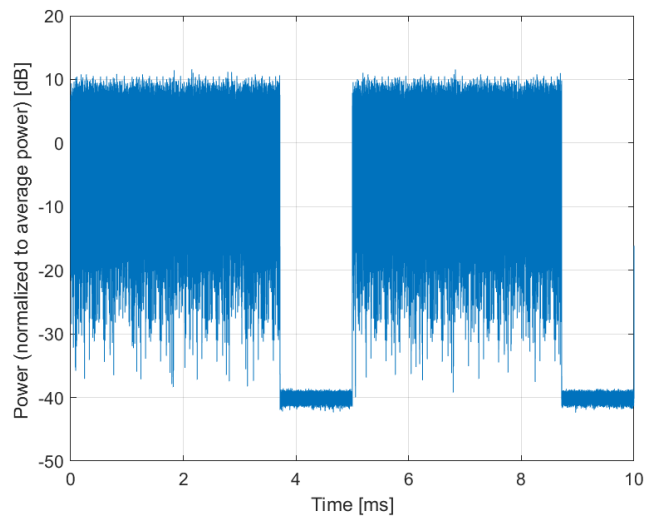
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10964-AAE

PAR: ¹ **9.29 dB**
MIF: ² **-4.24 dB**

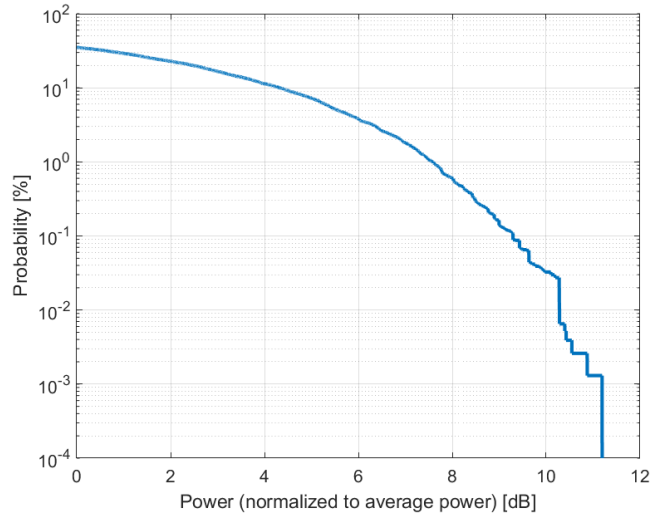
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

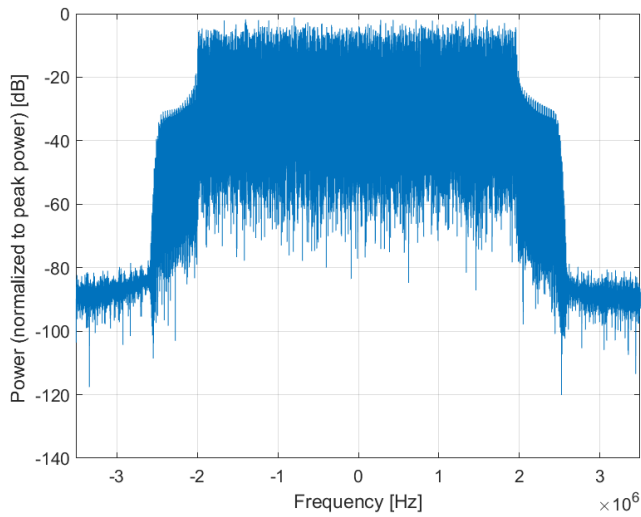
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

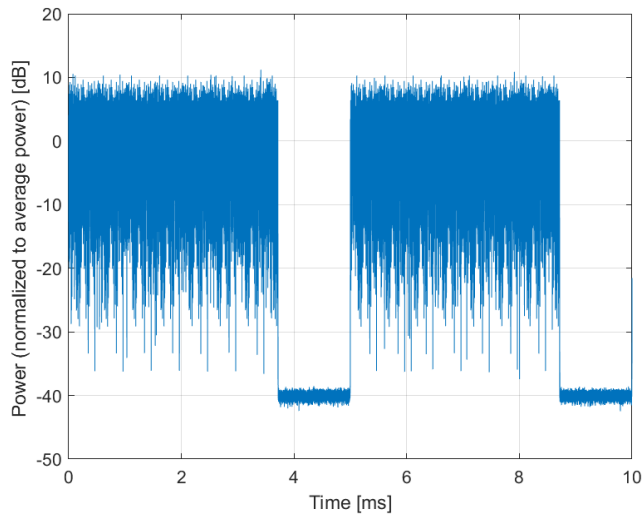
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10965-AAC

PAR: ¹ **9.37 dB**
MIF: ² **-4.23 dB**

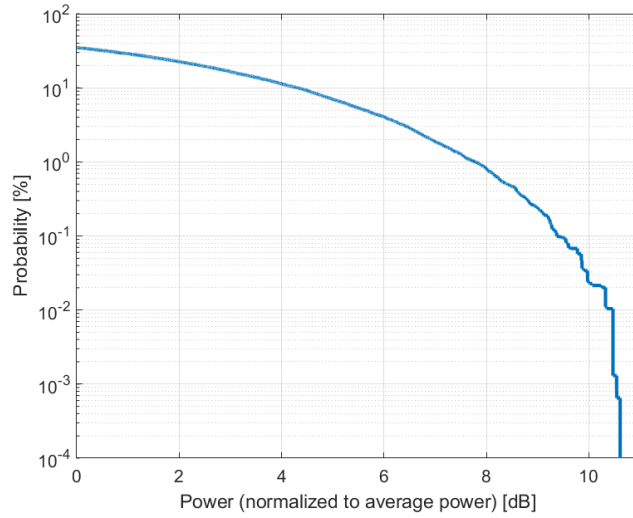
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

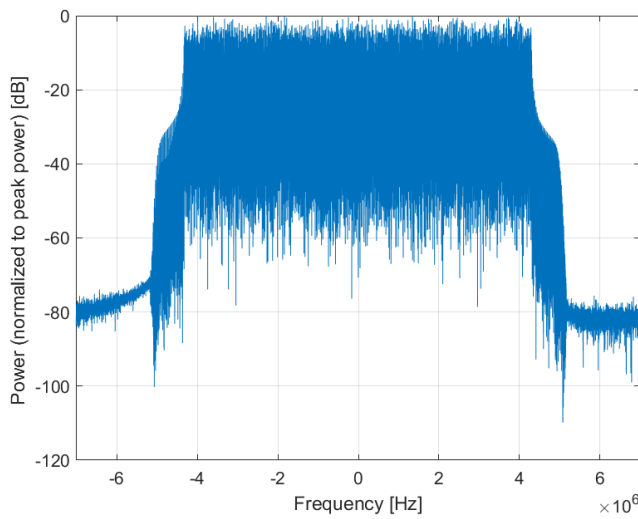
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

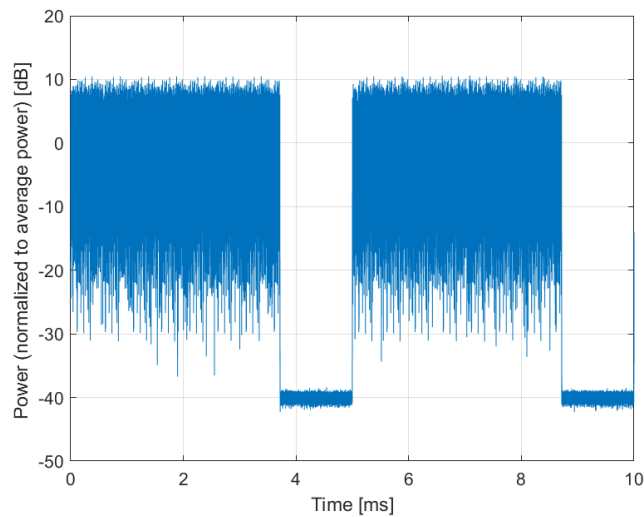
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10966-AAB

PAR: ¹ **9.55 dB**
MIF: ² **-4.22 dB**

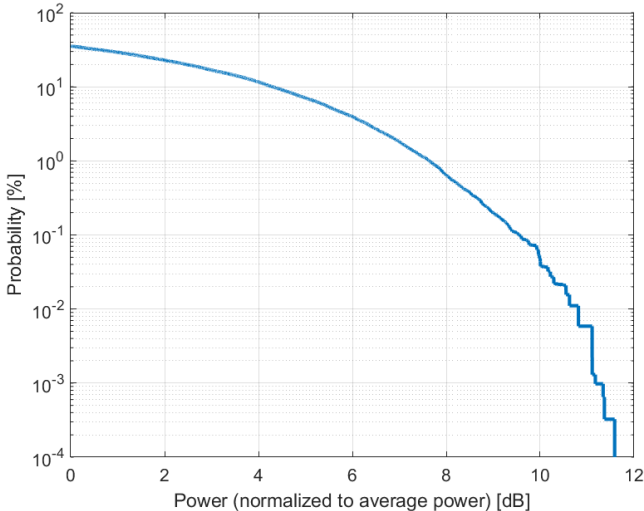
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

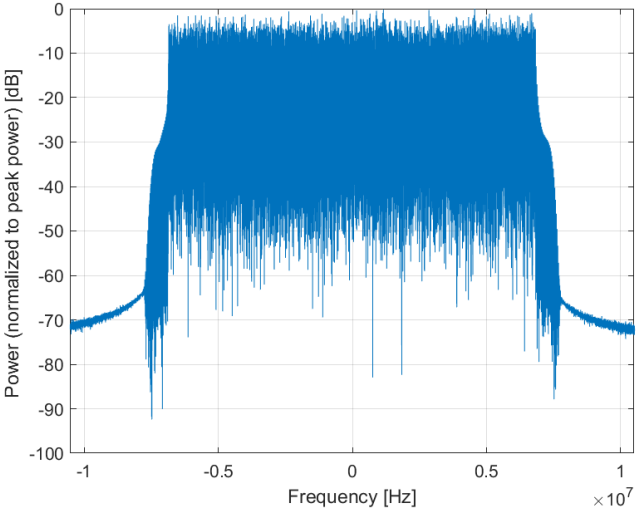
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

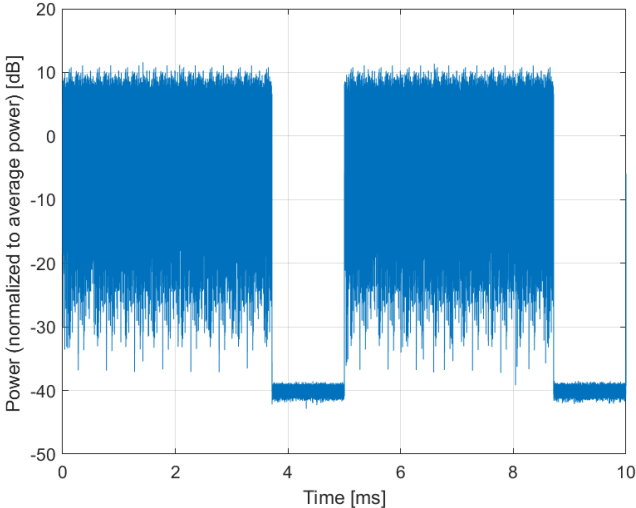
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10967-AAC

PAR: ¹ **9.42 dB**
MIF: ² **-4.23 dB**

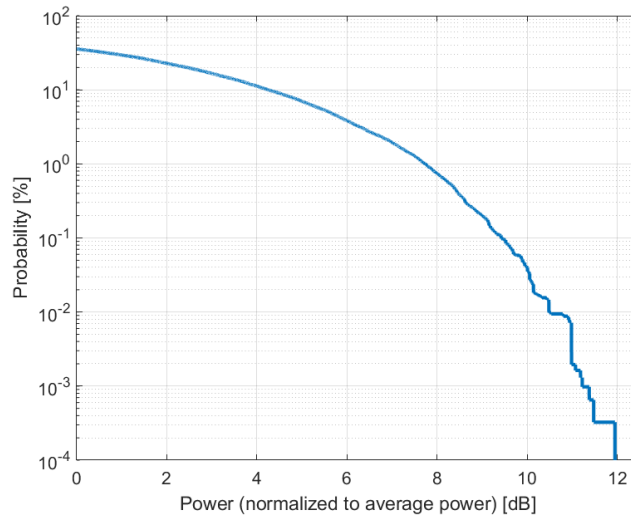
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

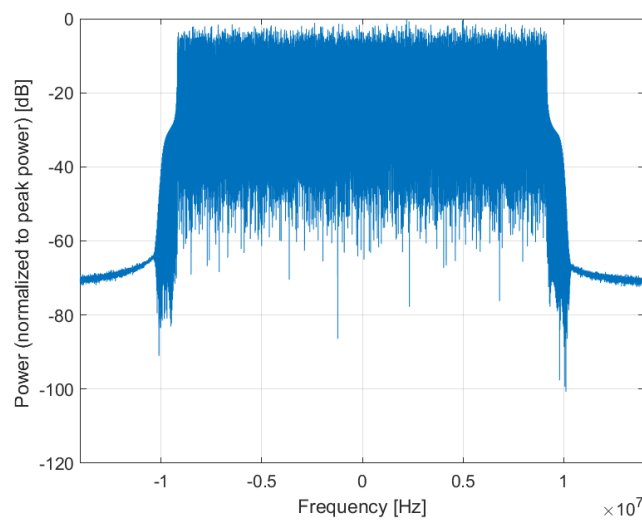
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

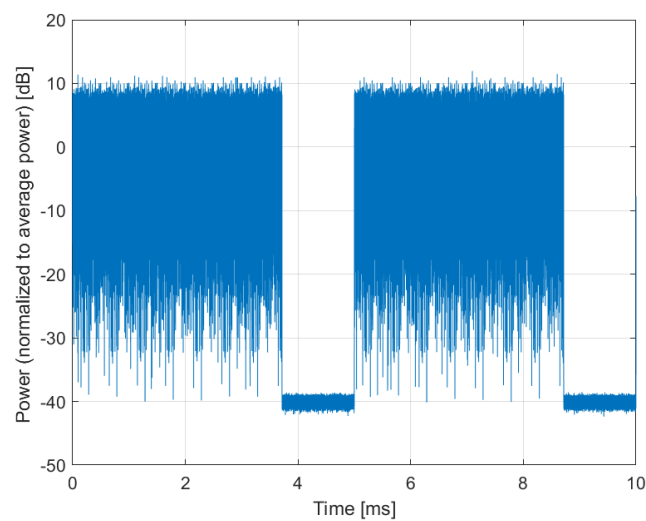
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10968-AAD

PAR: ¹ **9.49 dB**
MIF: ² **-4.23 dB**

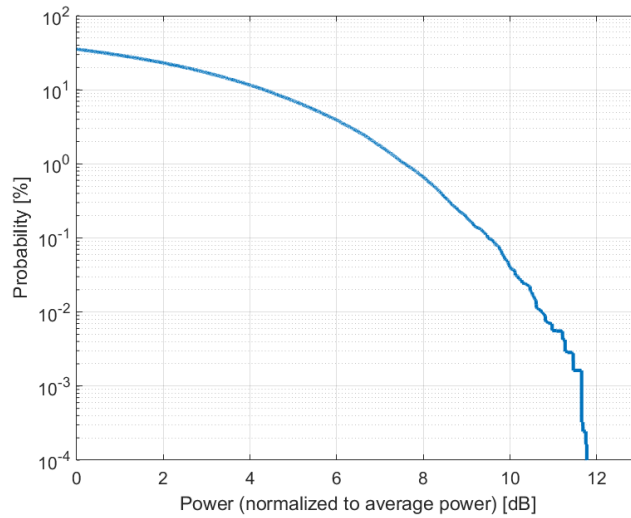
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band:
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

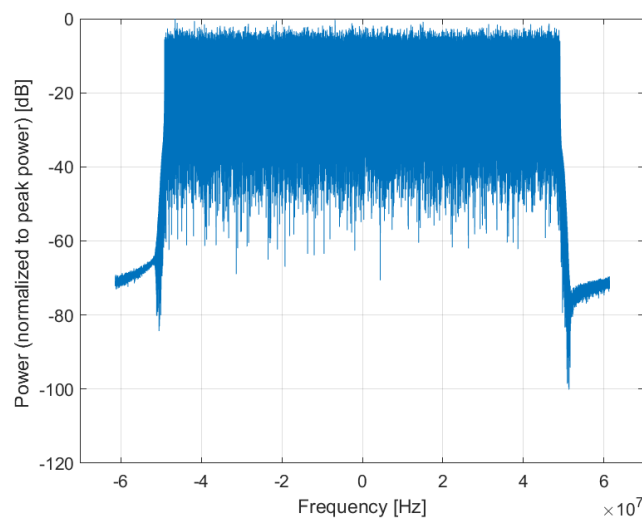
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

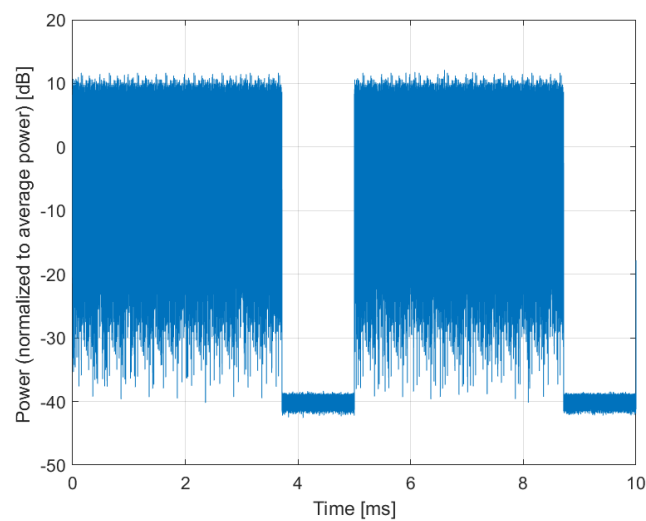
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10972-AAC

PAR: ¹ **11.59 dB**
MIF: ² **-1.65 dB**

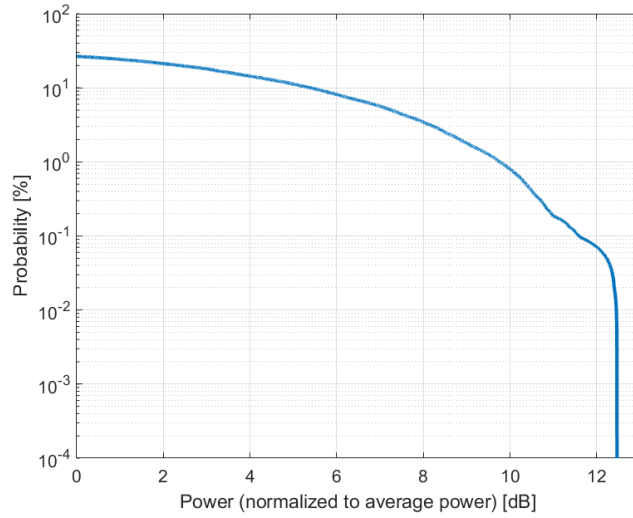
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Slot Format Index: -
Data Type: PN9

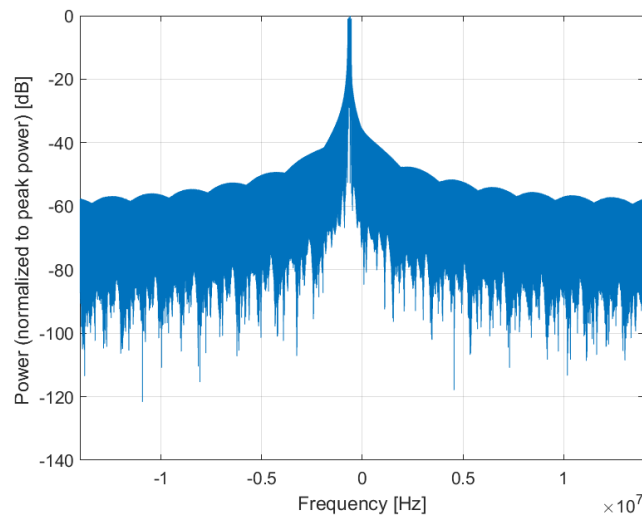
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

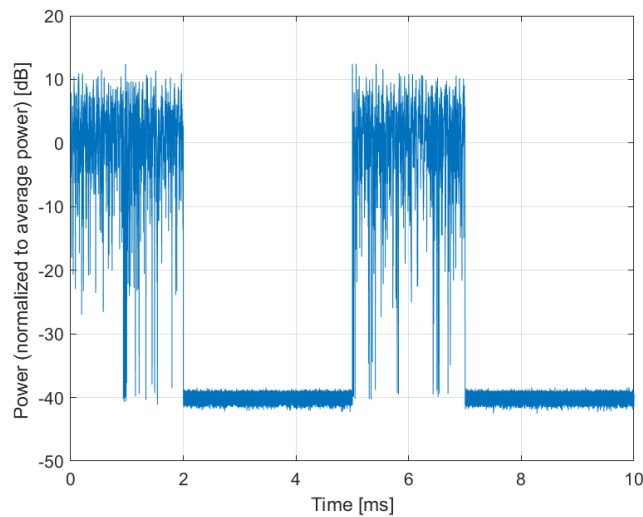
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10973-AAD

PAR: ¹ **9.06 dB**
MIF: ² **-1.64 dB**

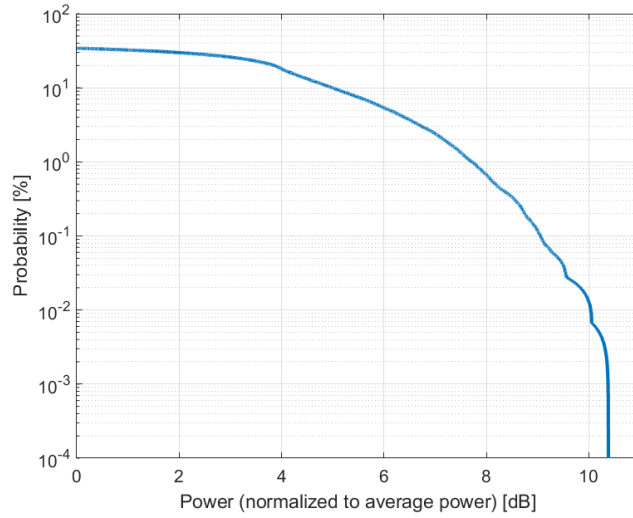
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 1
Slot Format Index: -
Data Type: PN9

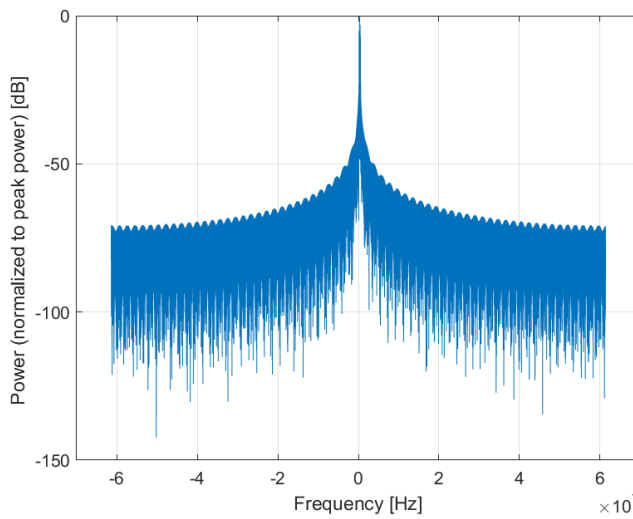
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

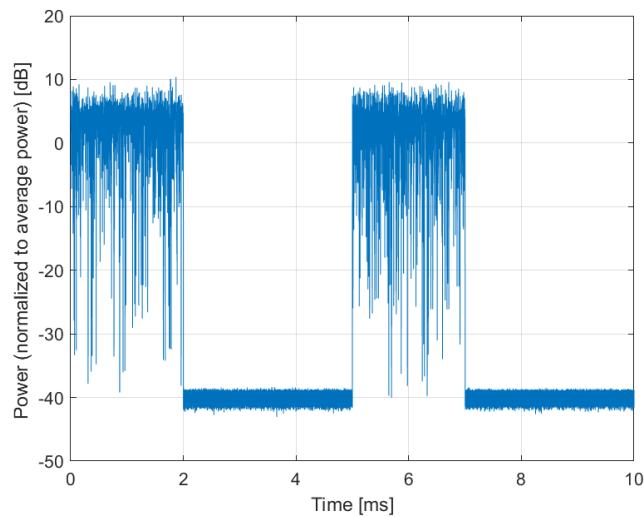
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10974-AAD

PAR: ¹ **10.28 dB**
MIF: ² **-3.48 dB**

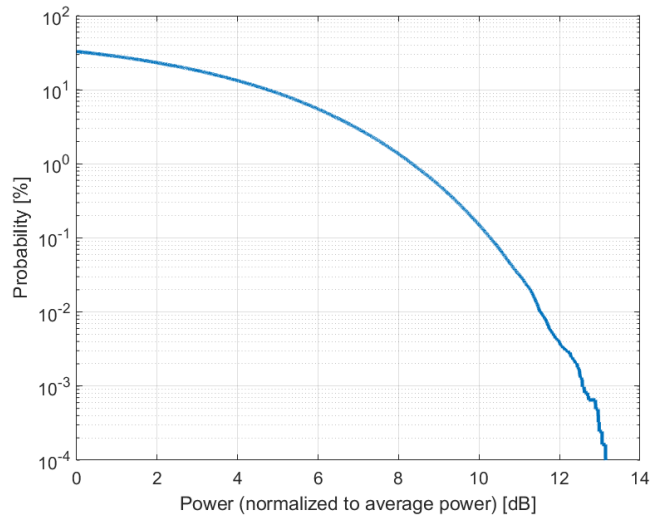
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 256-QAM
Subcarrier Spacing: 30 kHz
Number RBs: 273
Slot Format Index: -
Data Type: PN9

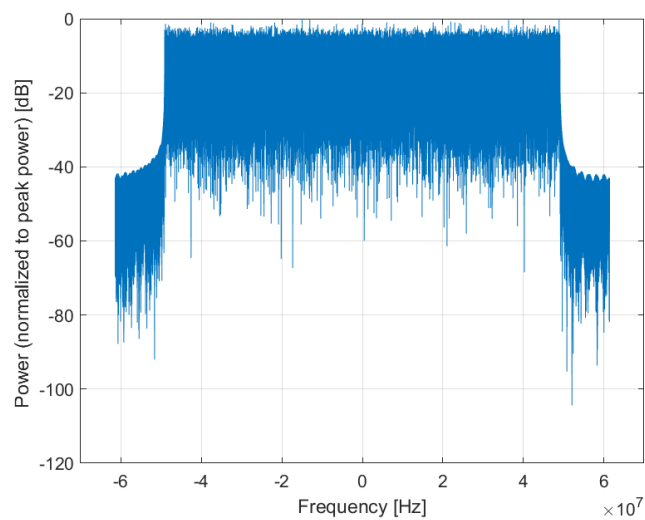
Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

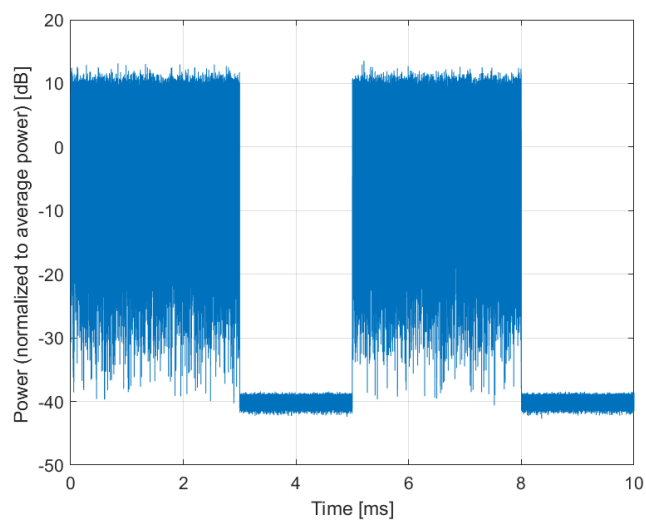
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (RT Prot sat)**

Group: MRI
UID: 10975-AAA

PAR: ¹ **14.37 dB**
MIF: ² **6.97 dB**

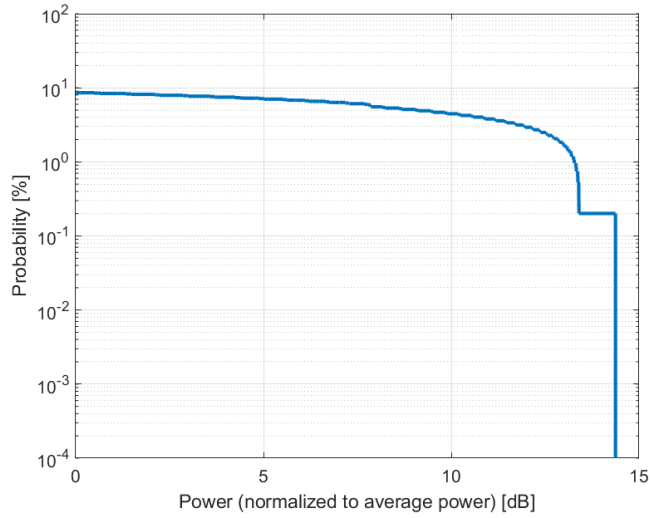
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Custom Calibration Sequence

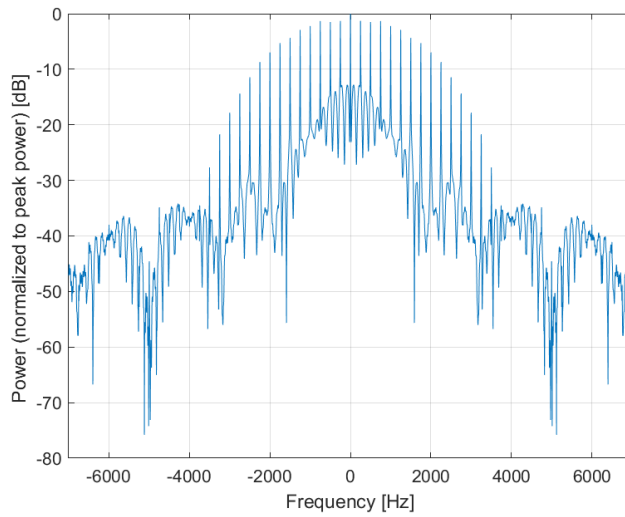
Bandwidth: 0.0 MHz
Integration Time: 298.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

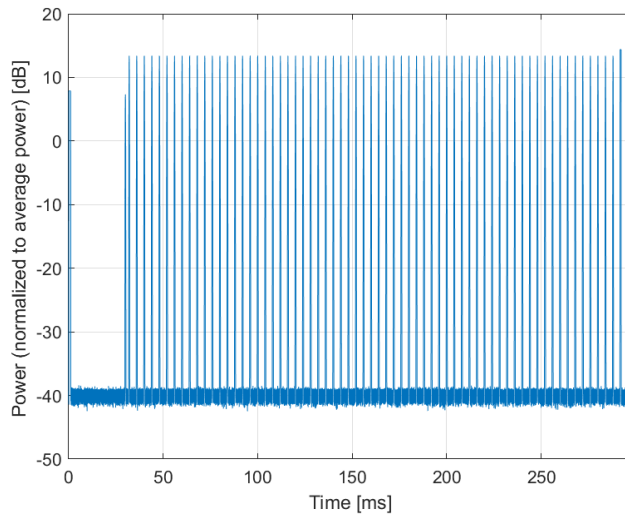
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (RT Prot no sat)**

Group: MRI
UID: 10976-AAA

PAR: ¹ **14.05 dB**
MIF: ² **6.74 dB**

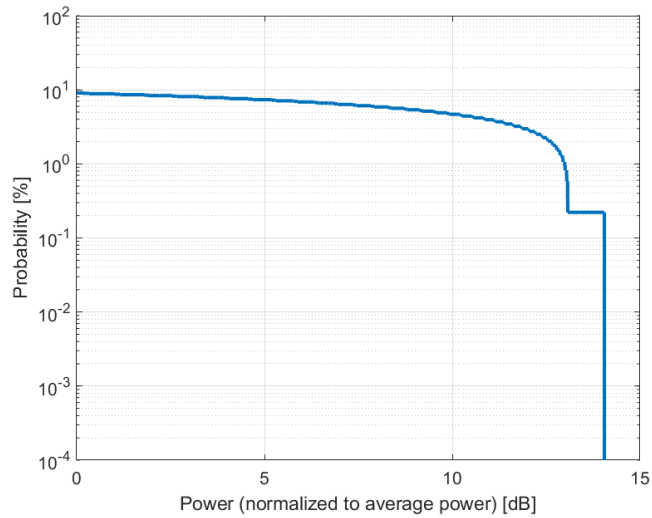
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Custom Calibration Sequence

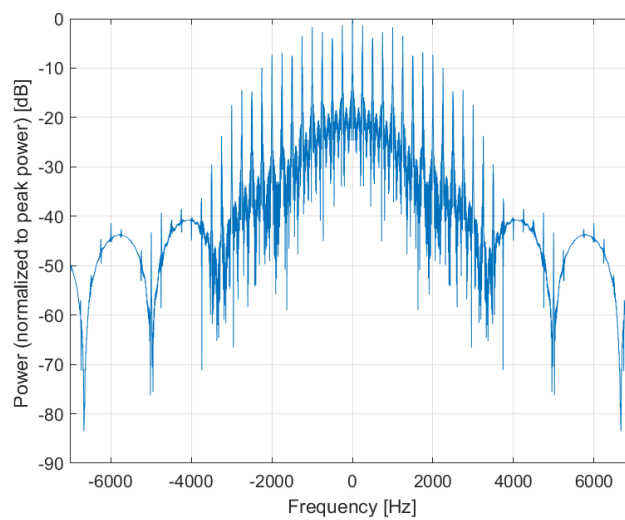
Bandwidth: 0.0 MHz
Integration Time: 271.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

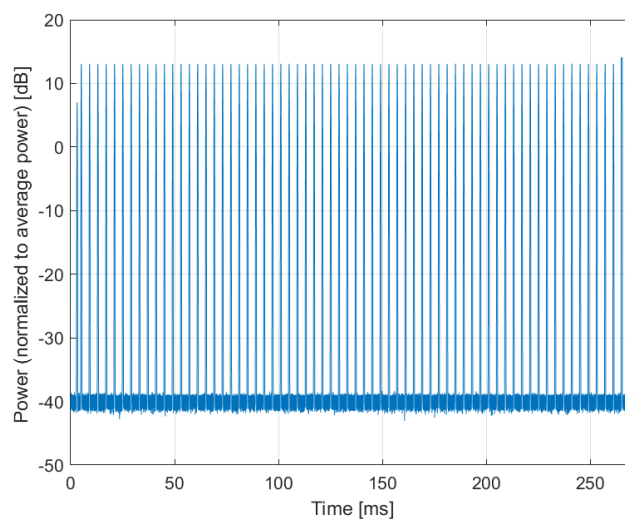
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (pi Sinc, 20ms, 2ms)**

Group: MRI
UID: 10977-AAA

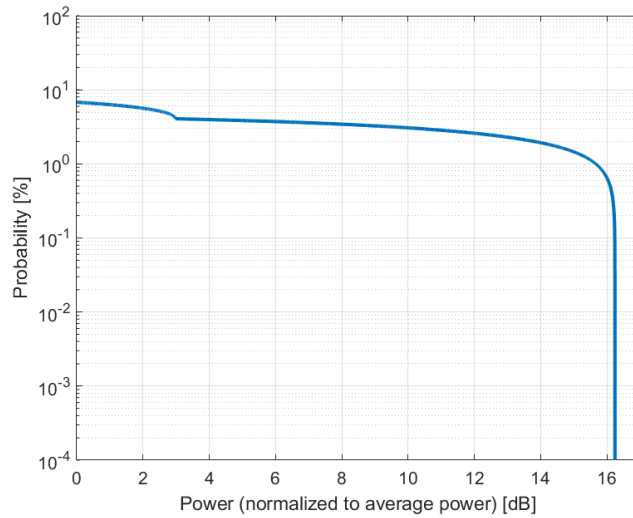
PAR: ¹ **16.24 dB**
MIF: ² **8.47 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

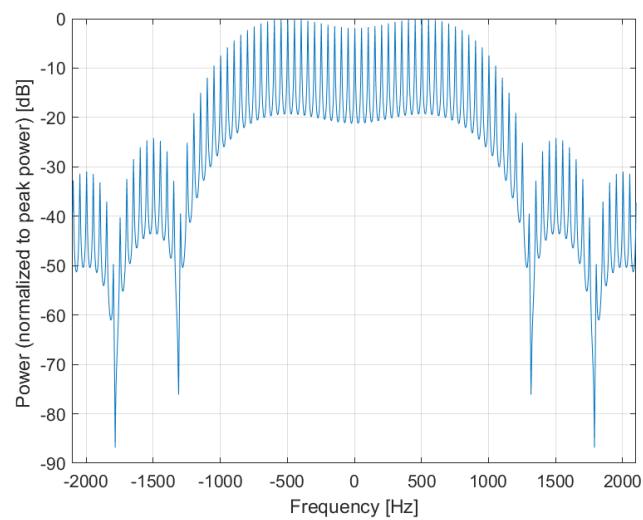
Detailed Specification: Pulse Shape: Sinc +/- 2 Pi
Repetition Rate: + 50 Hz
Duty Cycle: 10%

Bandwidth: 0.0 MHz
Integration Time: 20.0 ms

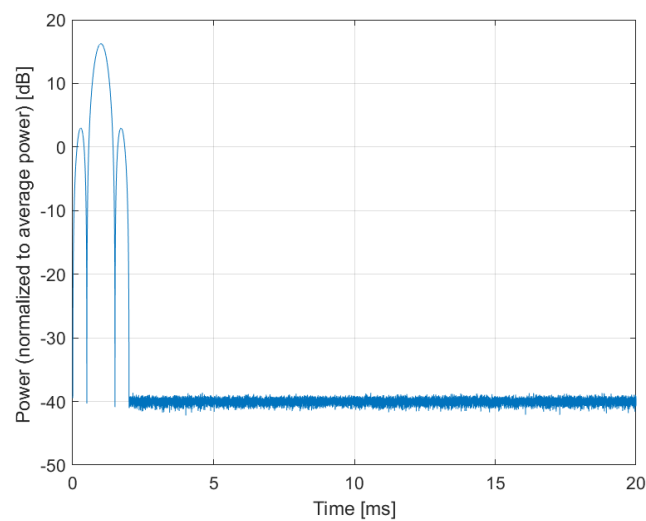
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA BDR**

Group: ULLA
UID: 10978-AAA

PAR: ¹ **1.16 dB**
MIF: ² **-3.98 dB**

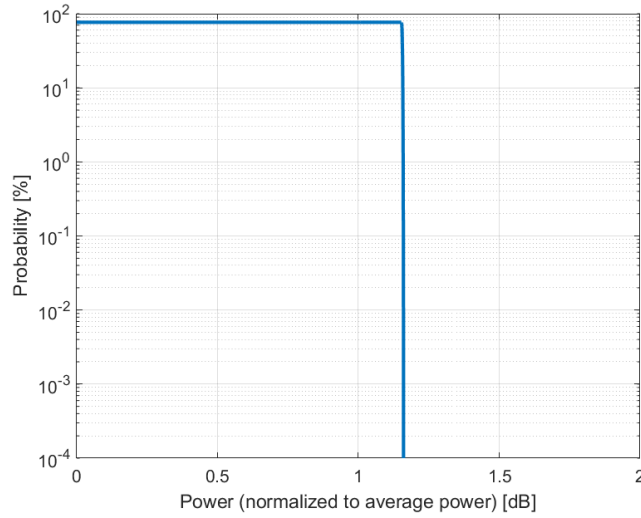
Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: BDR

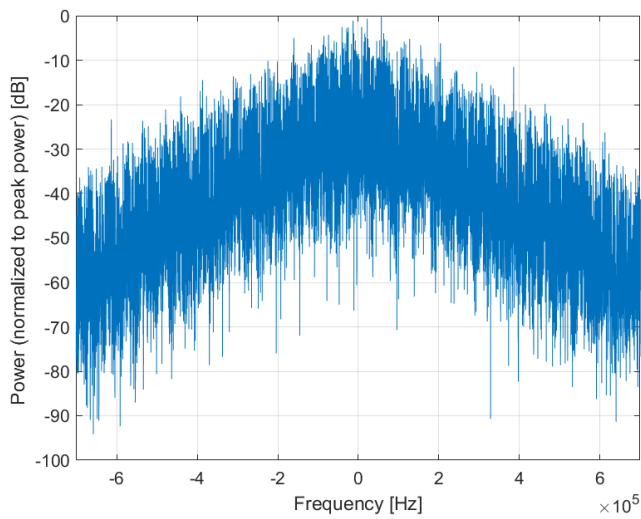
Bandwidth: 1.0 MHz
Integration Time: 3.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

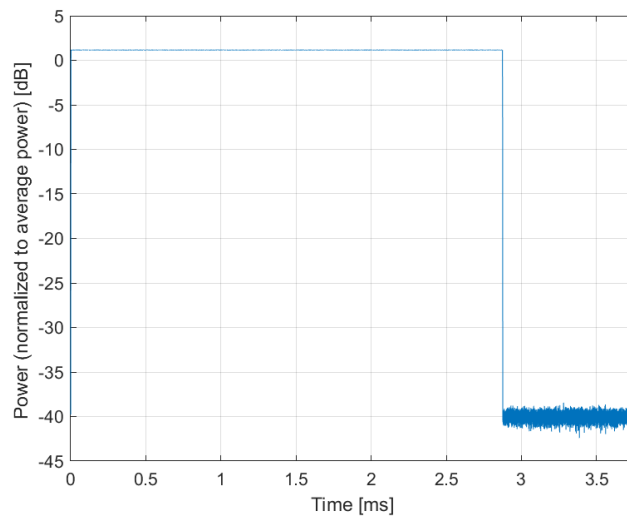
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA HDR4**

Group: ULLA
UID: 10979-AAA

PAR: ¹ **8.58 dB**
MIF: ² **0.89 dB**

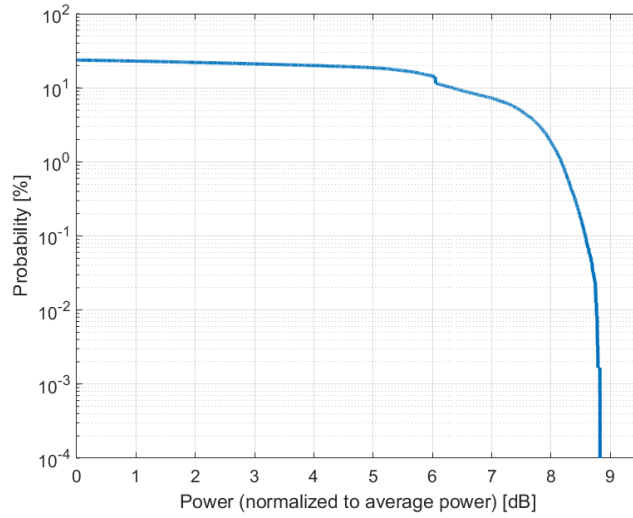
Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: HDR4

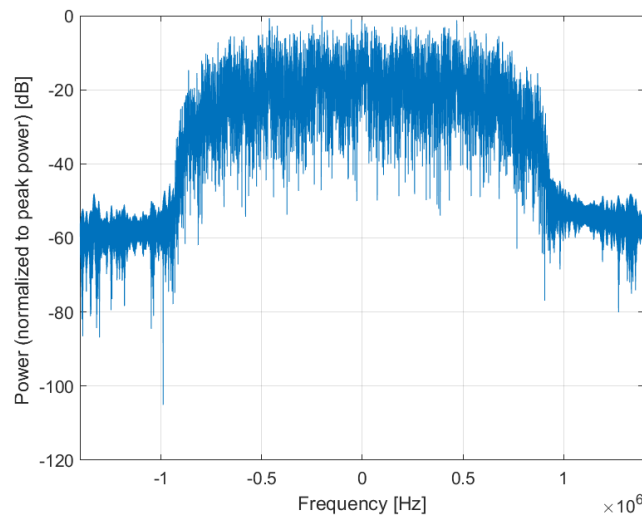
Bandwidth: 2.0 MHz
Integration Time: 3.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

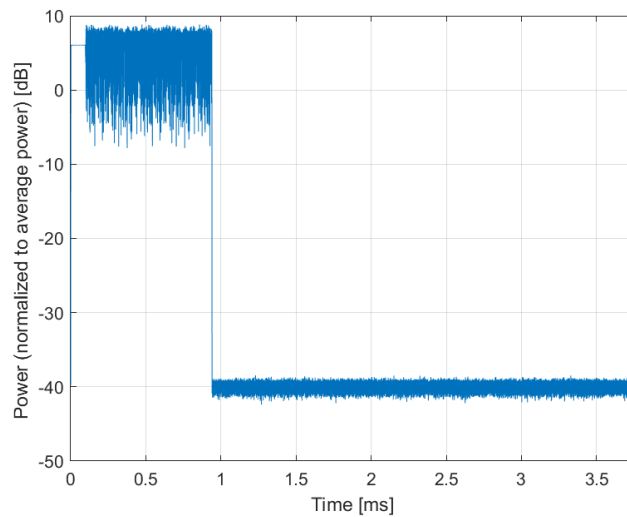
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA HDR8**

Group: ULLA
UID: 10980-AAA

PAR: ¹ **10.32 dB**
MIF: ² **2.43 dB**

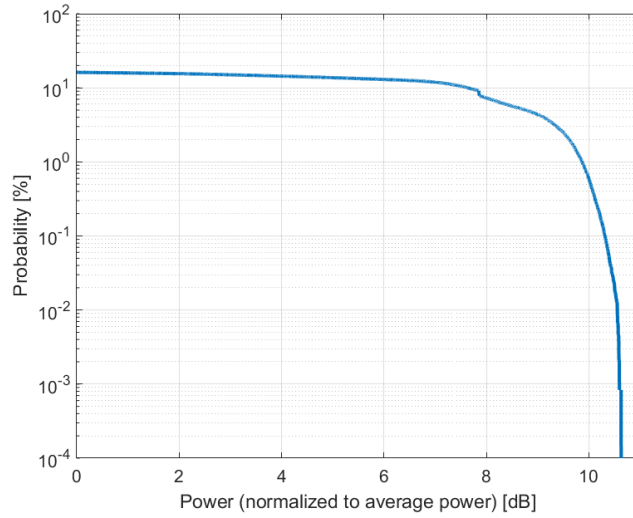
Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: HDR8

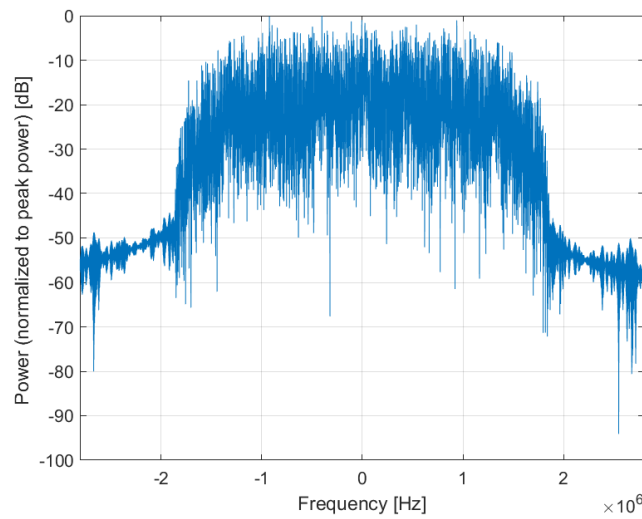
Bandwidth: 4.0 MHz
Integration Time: 3.8 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

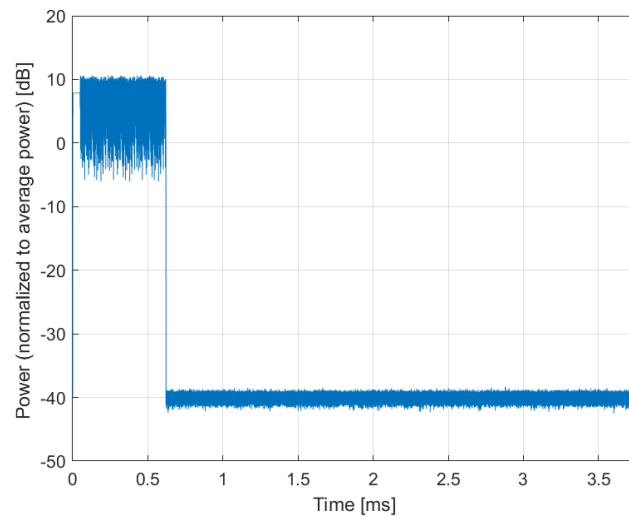
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA HDRp4**

Group: ULLA
UID: 10981-AAA

PAR: ¹ **3.19 dB**
MIF: ² **-5.68 dB**

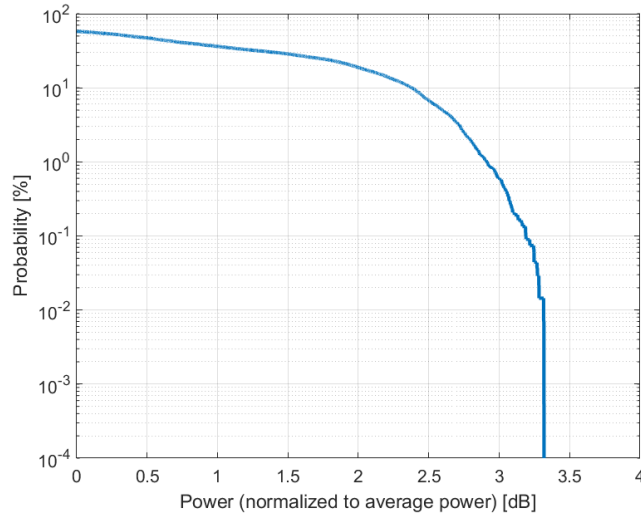
Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: HDRp4

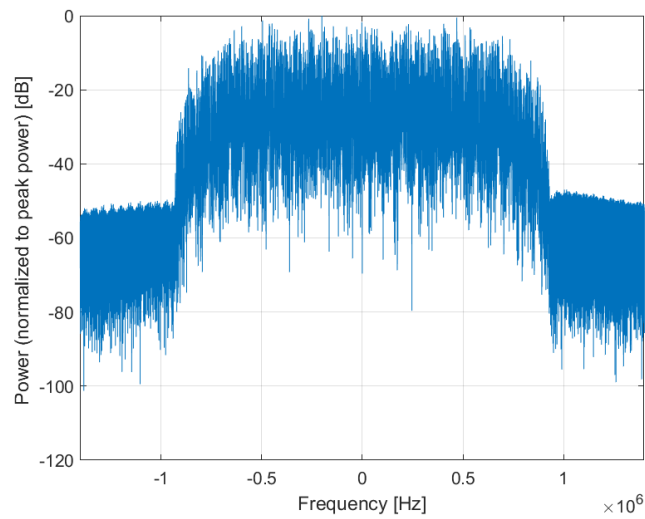
Bandwidth: 2.0 MHz
Integration Time: 12.5 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

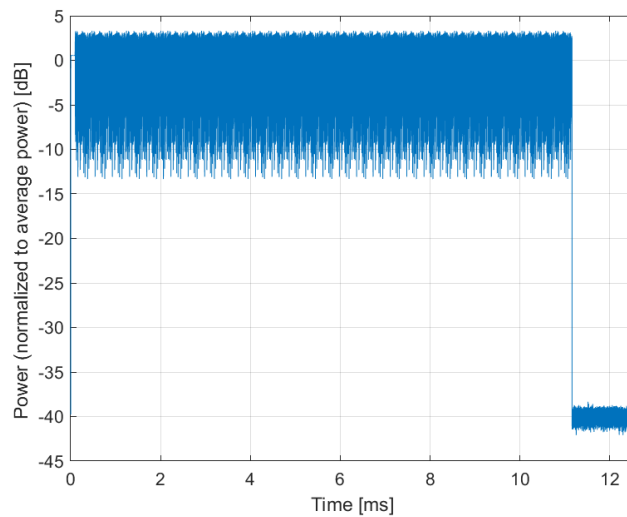
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA HDRp8**

Group: ULLA
UID: 10982-AAA

PAR: ¹ **3.43 dB**
MIF: ² **-5.57 dB**

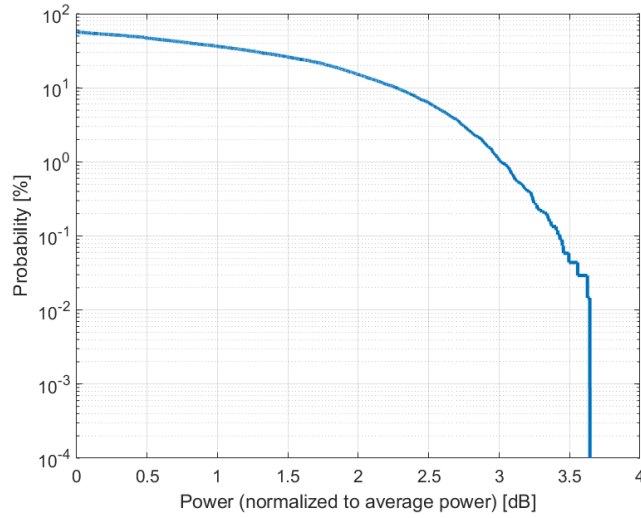
Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: HDRp8

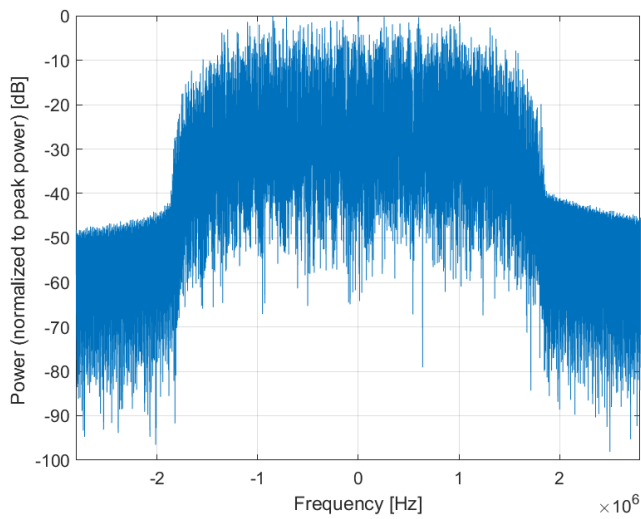
Bandwidth: 4.0 MHz
Integration Time: 6.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

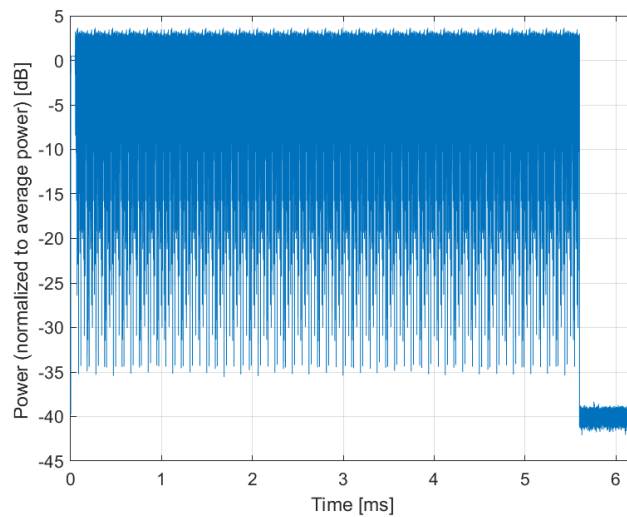
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10983-AAC

PAR: ¹ **9.31 dB**
MIF: ² **-4.23 dB**

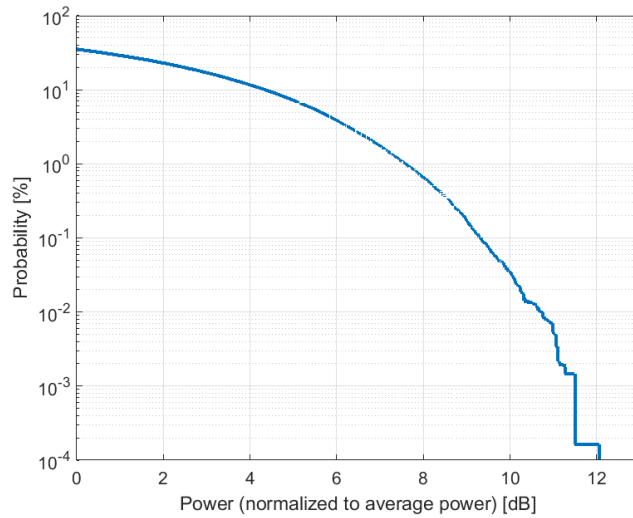
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

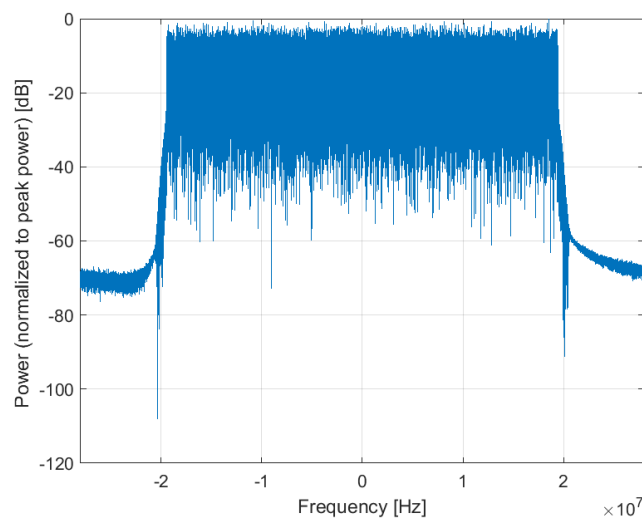
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

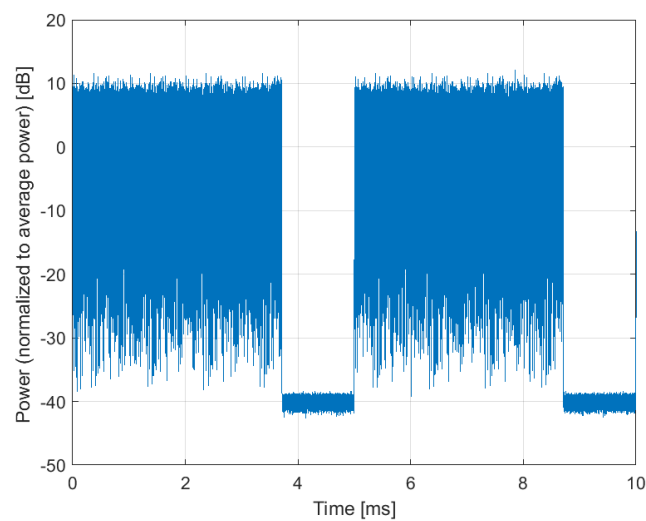
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 10984-AAB

PAR: ¹ **9.42 dB**
MIF: ² **-4.23 dB**

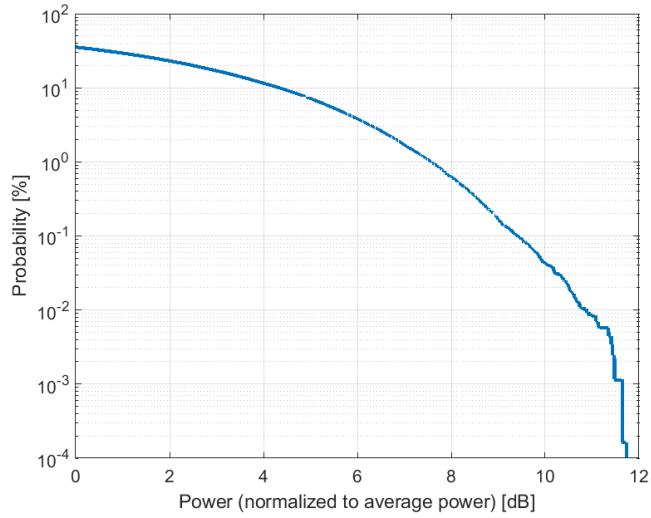
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

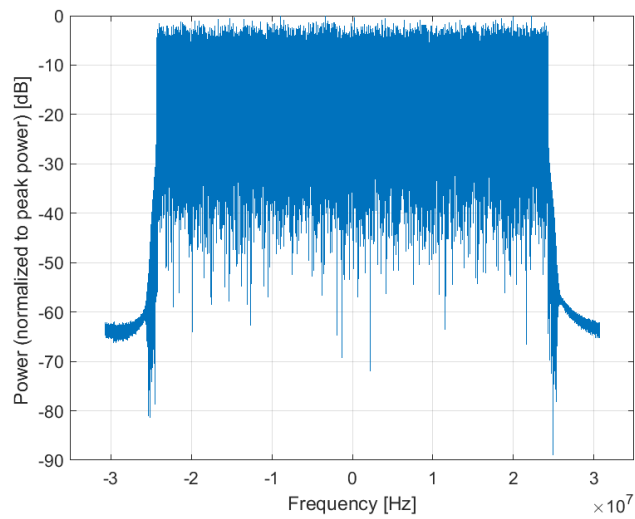
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

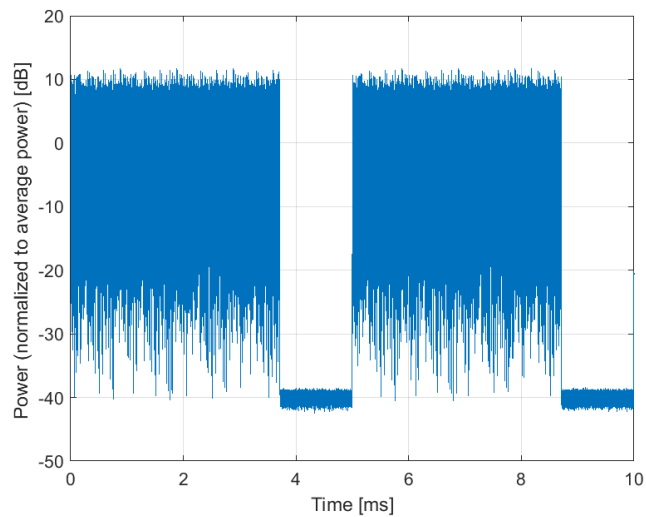
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10985-AAC

PAR: ¹ **9.54 dB**
MIF: ² **-4.23 dB**

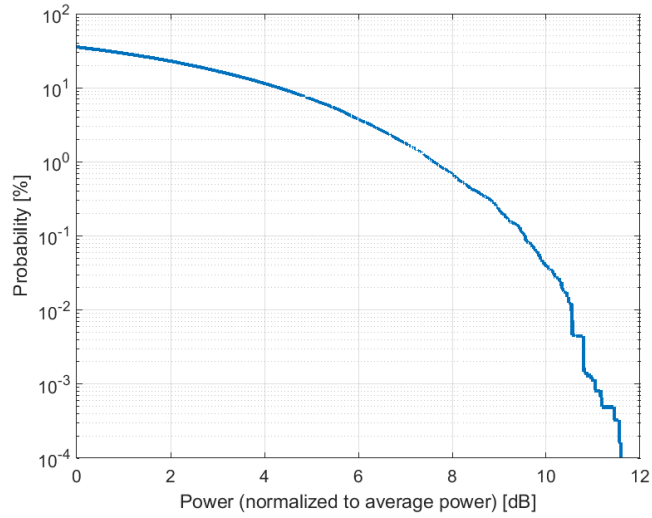
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

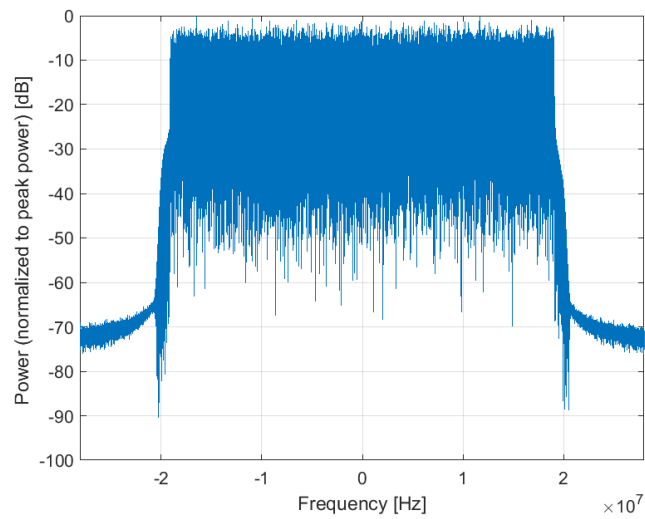
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

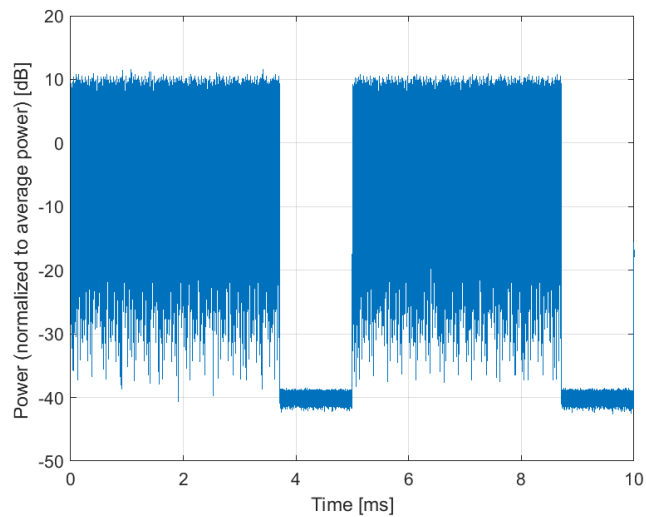
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10986-AAB

PAR: ¹ **9.50 dB**
MIF: ² **-4.23 dB**

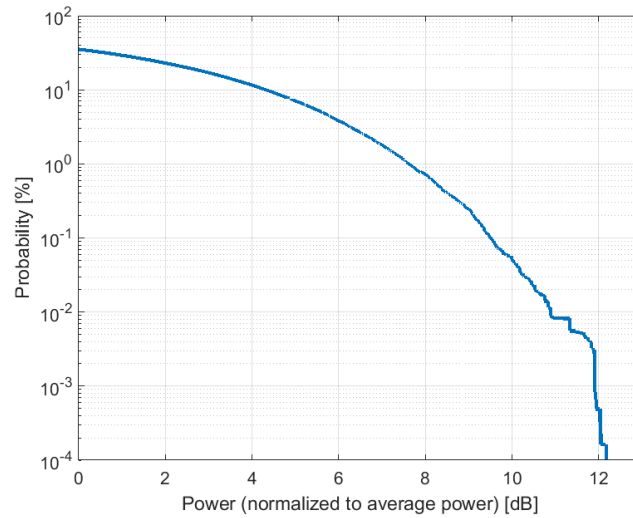
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

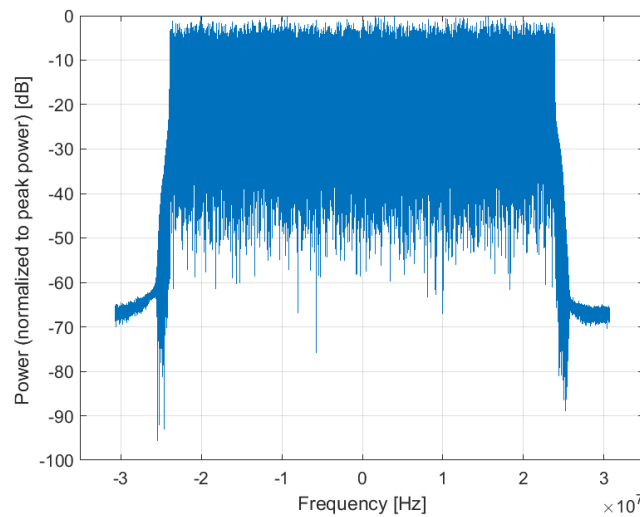
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

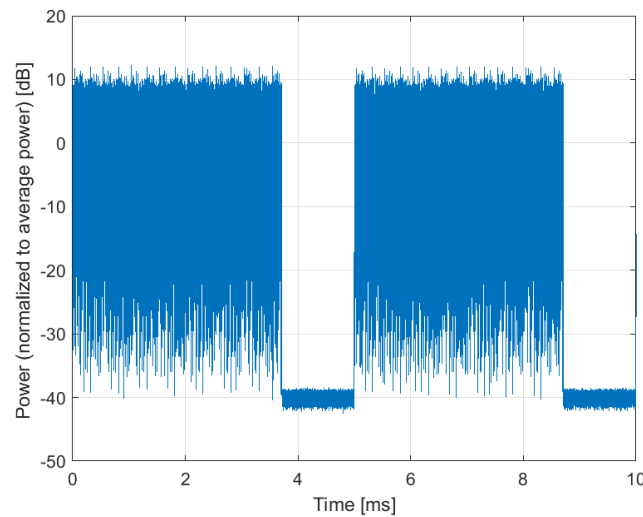
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10987-AAC

PAR: ¹ **9.53 dB**
MIF: ² **-4.23 dB**

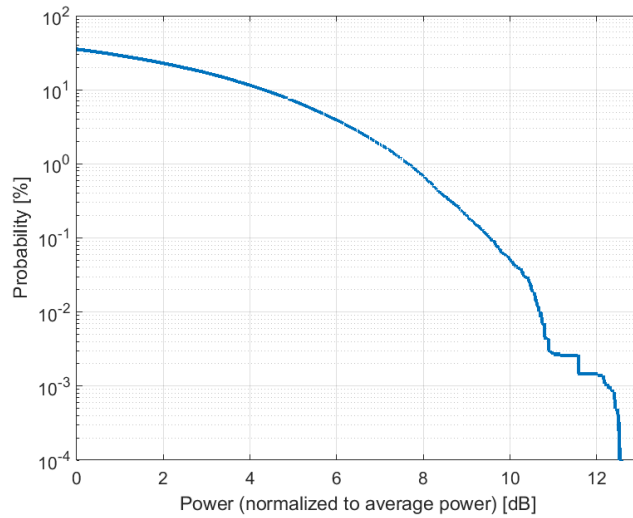
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

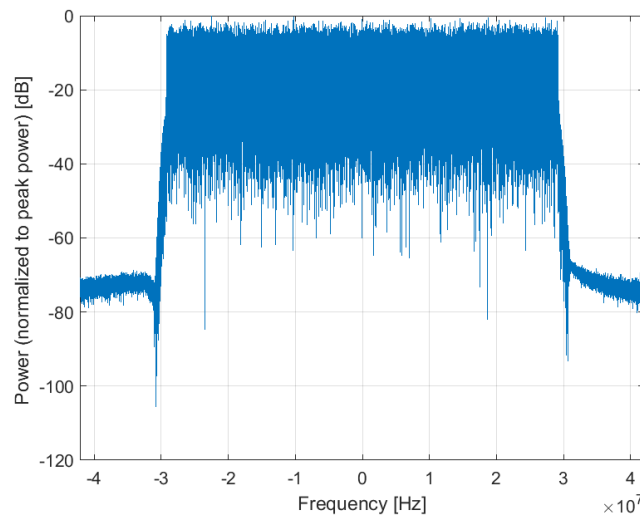
Bandwidth: 60.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

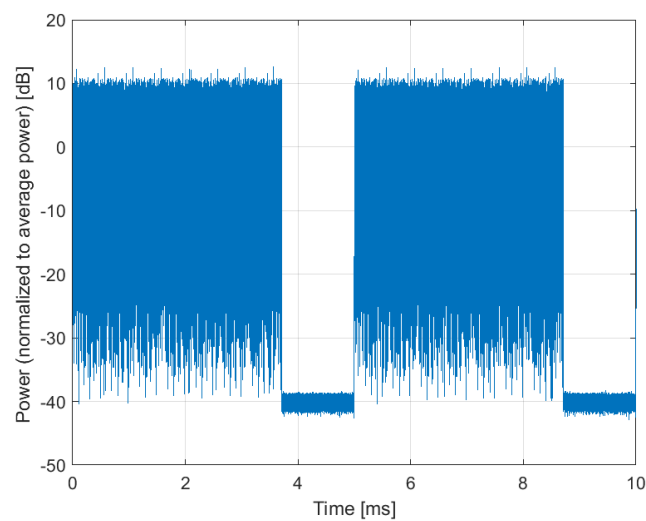
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10988-AAB

PAR: ¹ **9.38 dB**
MIF: ² **-4.23 dB**

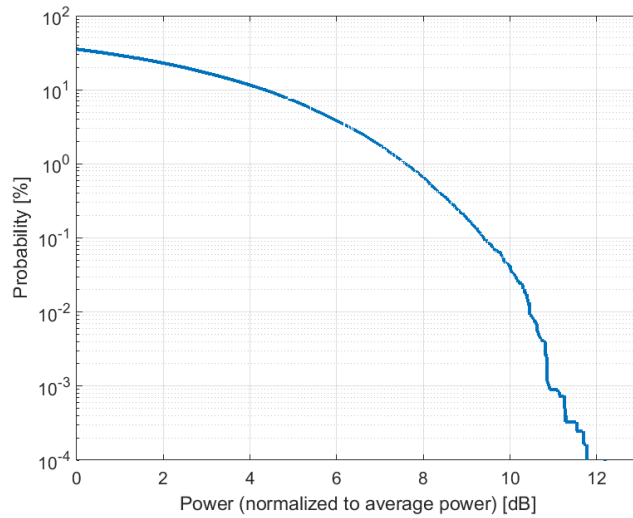
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

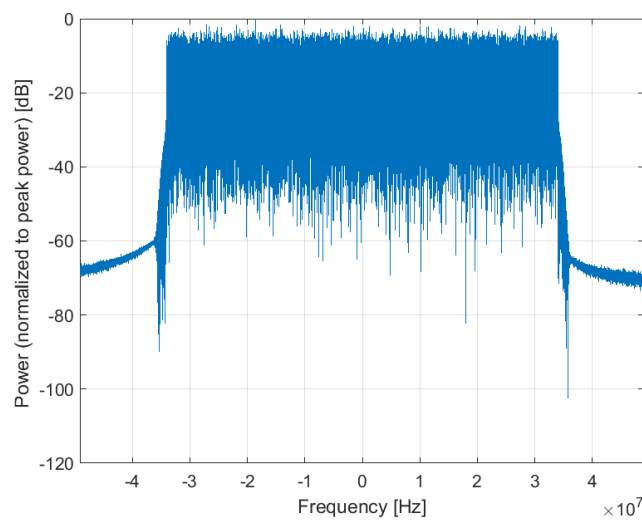
Bandwidth: 70.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

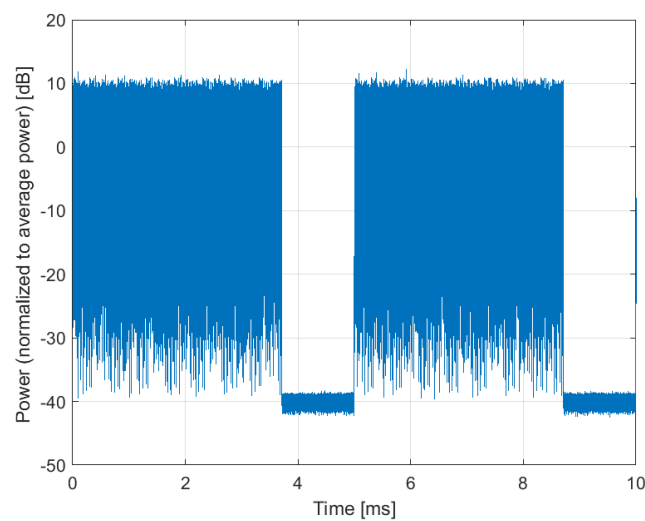
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10989-AAC

PAR: ¹ **9.33 dB**
MIF: ² **-4.23 dB**

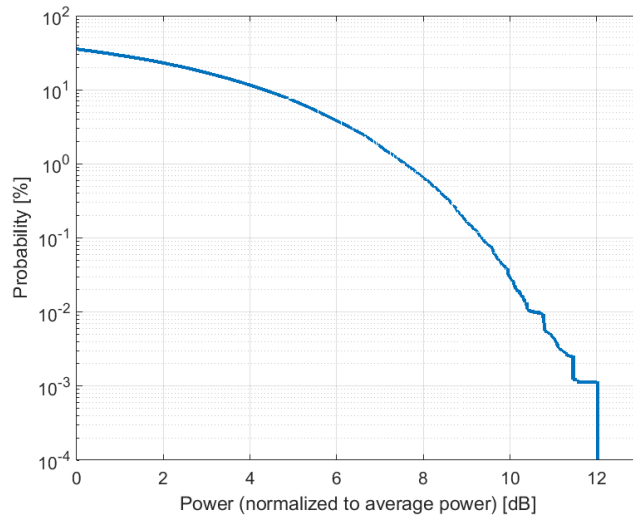
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

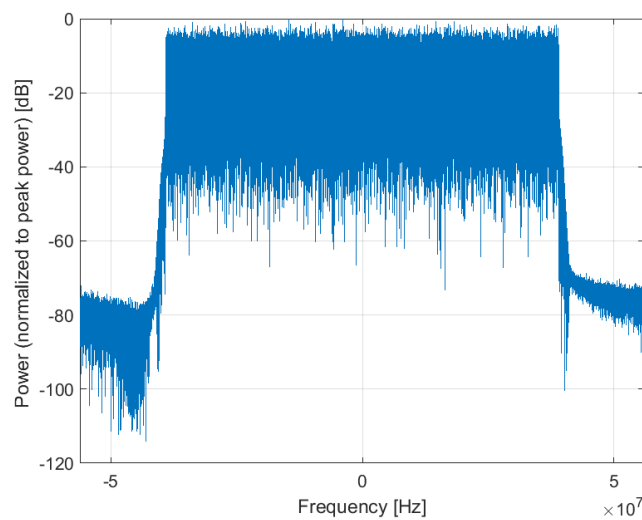
Bandwidth: 80.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

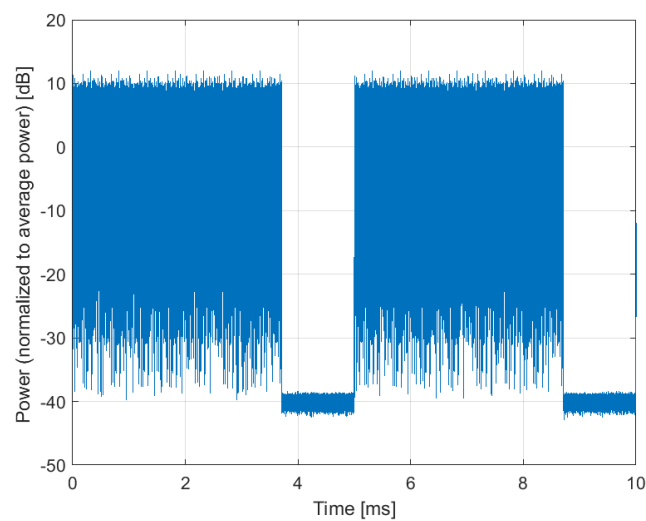
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10990-AAB

PAR: ¹ **9.52 dB**
MIF: ² **-4.23 dB**

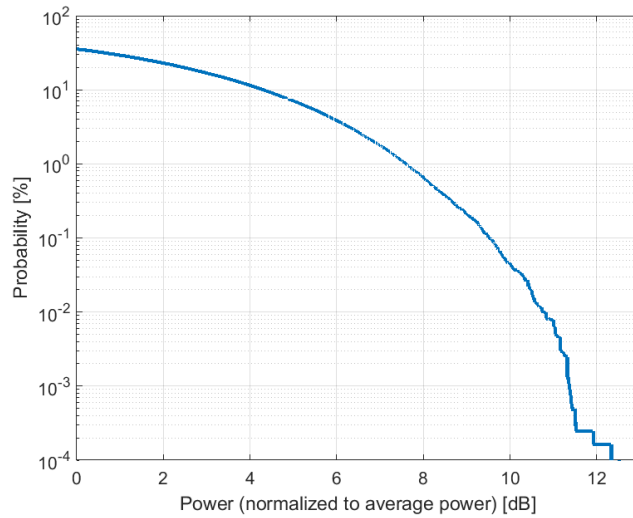
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

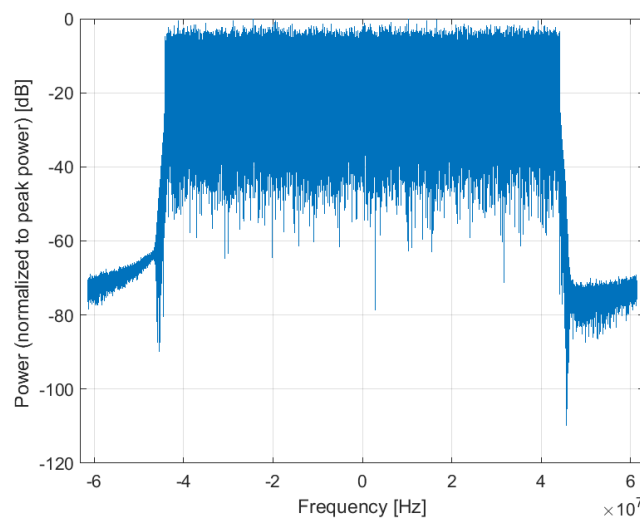
Bandwidth: 90.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

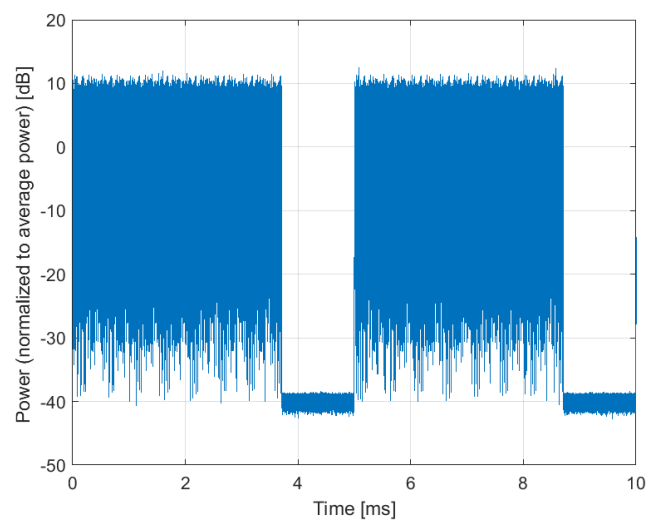
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (2pi Sinc, 5.1ms, 1.5232ms)**

Group: MRI
UID: 10991-AAA

PAR: ¹ **11.49 dB**
MIF: ² **4.25 dB**

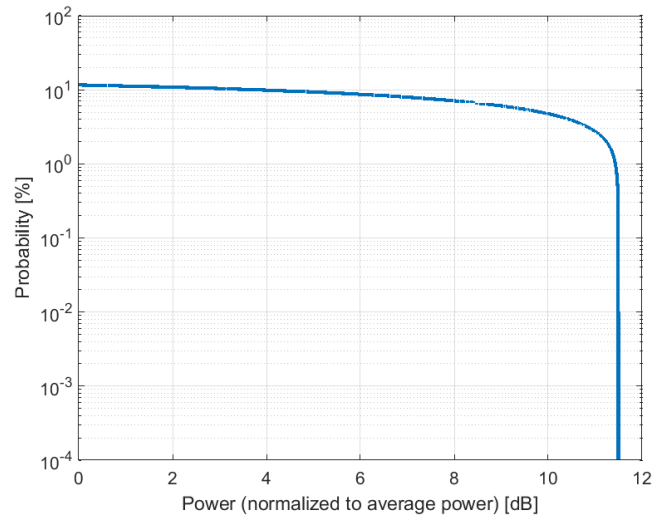
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Pulse Shape: Sinc +/- 2 Pi
Repetition Rate: + 196 Hz
Duty Cycle: 29.9%

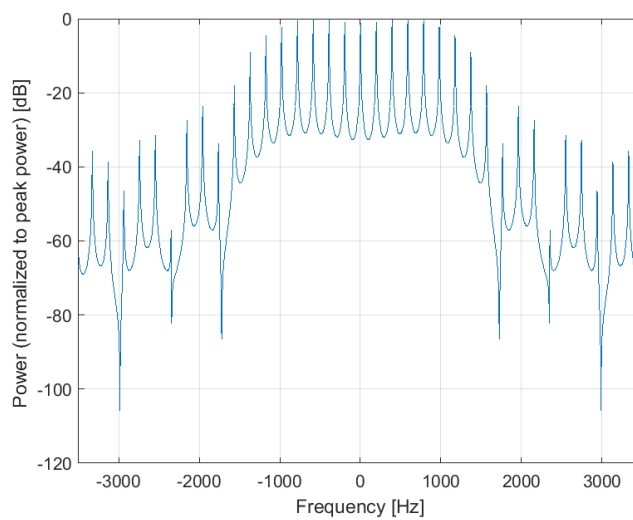
Bandwidth: 0.0 MHz
Integration Time: 5.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

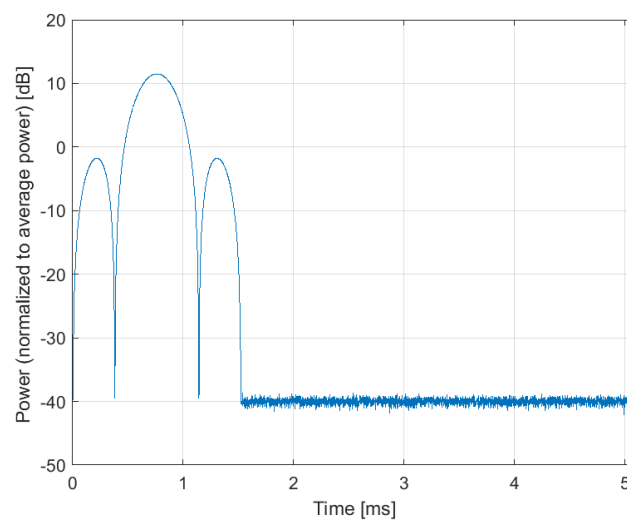
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (2pi Sinc, 9.1ms, 3ms)**

Group: MRI
UID: 10992-AAA

PAR: ¹ **12.77 dB**
MIF: ² **5.27 dB**

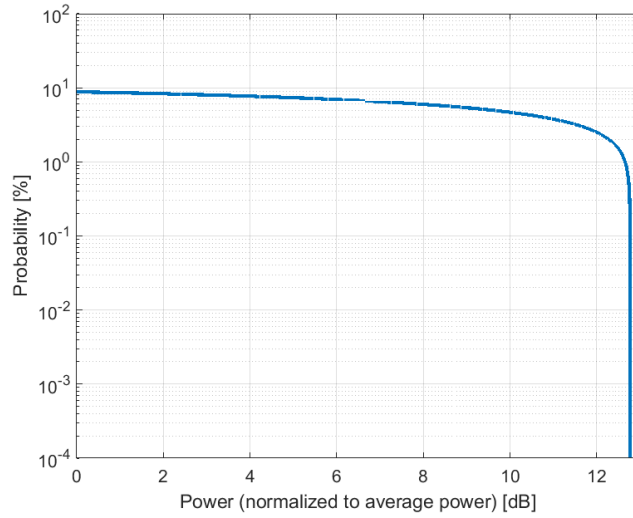
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Pulse Shape: Sinc +/- 2 Pi
Repetition Rate: + 110 Hz
Duty Cycle: 33.0%

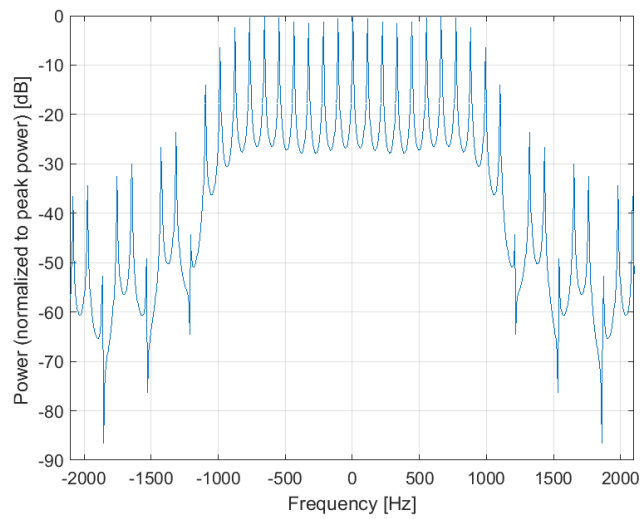
Bandwidth: 0.0 MHz
Integration Time: 9.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

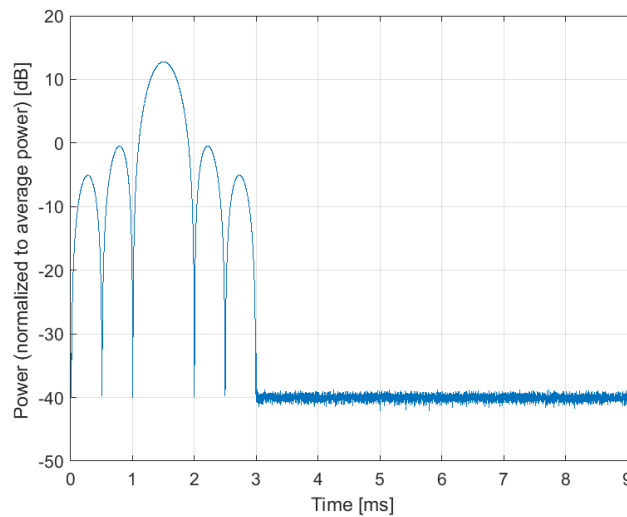
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (pi Sinc, 6ms, 1.5232ms)**

Group: MRI
UID: 10993-AAA

PAR: ¹ **9.41 dB**
MIF: ² **2.51 dB**

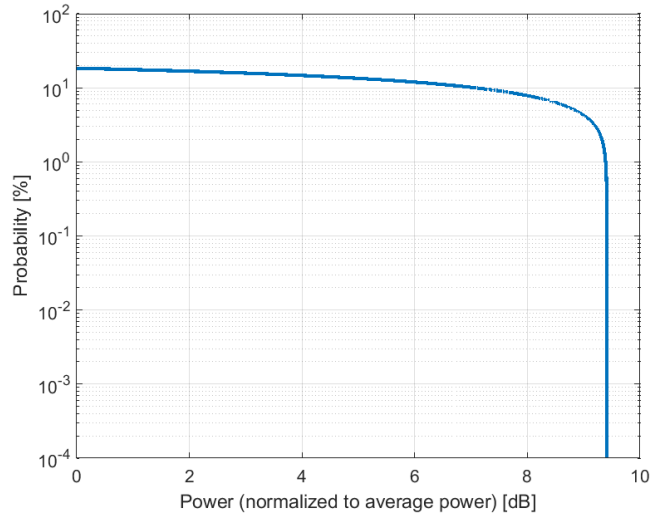
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Pulse Shape: Sinc +/- Pi
Repetition Rate: + 167 Hz
Duty Cycle: 25.4%

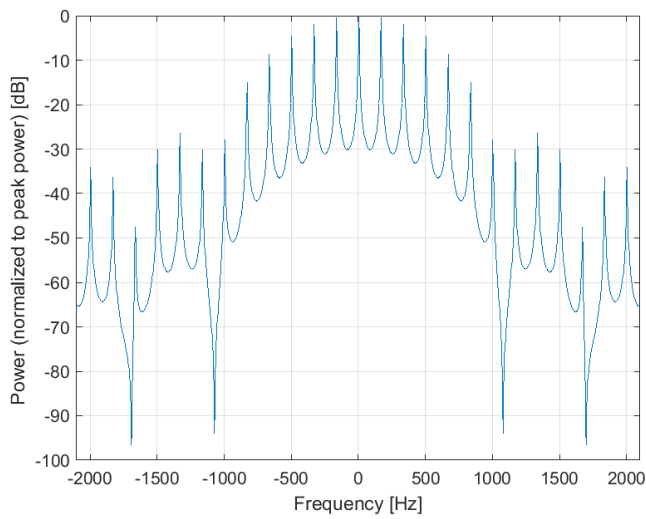
Bandwidth: 0.0 MHz
Integration Time: 6.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

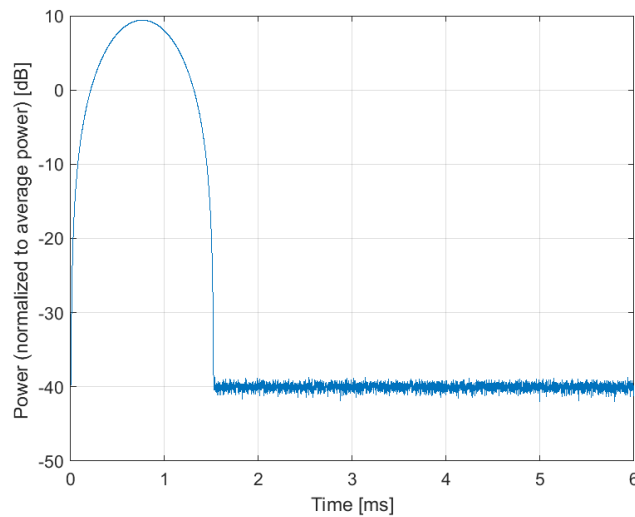
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 111.11ms, 10ms)**

Group: Test
UID: 10994-AAA

PAR: ¹ **10.46 dB**
MIF: ² **2.11 dB**

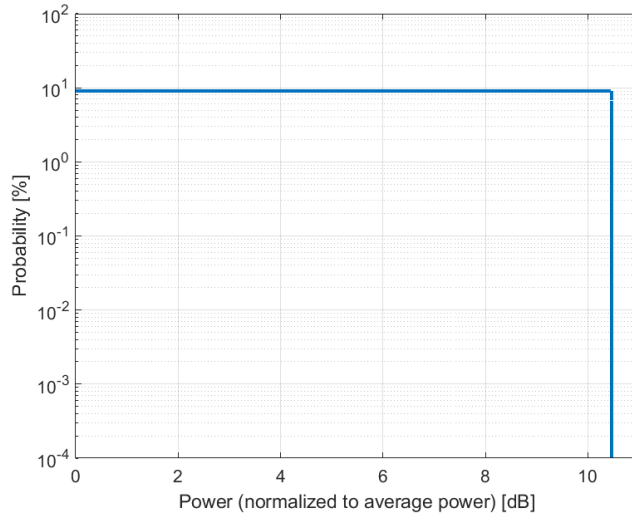
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
D300 (300.0 MHz)
D400 (400.0 MHz)
D450 (450.0 MHz)
D600V3 (600.0 MHz)
D750 (750.0 MHz)
D835 (835.0 MHz)
D900 (900.0 MHz)
D1450 (1450.0 MHz)
D1500 (1500.0 MHz)
D1640 (1640.0 MHz)
D1750 (1750.0 MHz)
D1765 (1765.0 MHz)
D1800 (1800.0 MHz)
D1900 (1900.0 MHz)
D1950 (1950.0 MHz)
D2000 (2000.0 MHz)
D2100 (2100.0 MHz)
D2300 (2300.0 MHz)
D2450 (2450.0 MHz)
D2550V2 (2250.0 MHz)
D2600 (2600.0 MHz)
D3000 (3000.0 MHz)
D3300V2 (3300.0 MHz)
D3500 (3500.0 MHz)
D3700 (3700.0 MHz)
D5GHz (5000.0 - 6000.0 MHz)
CD700 (700.0 MHz)
CD835 (835.0 MHz)
CD1880 (1880.0 MHz)
CD2150 (2150.0 MHz)
CD2450 (2450.0 MHz)
CD2600V3 (2600.0 MHz)
CD3500V3 (3500.0 MHz)
CD5500V3 (5500.0 MHz)
ITD700 (700.0 MHz)
ITD835 (835.0 MHz)
ITD1880 (1880.0 MHz)
ITD2150 (2150.0 MHz)
ITD2600 (2600.0 MHz)
ITD3500 (3500.0 MHz)
ITD5500 (5000.0 - 5900.0 MHz)
CLA30 (30.0 MHz)
CLA64 (64.0 MHz)
CLA128 (128.0 MHz)
CLA150 (150.0 MHz)
CLA220 (220.0 MHz)
FullSpan (0.0 - 6000.0 MHz)
Validation band (0.0 - 6000.0 MHz)
CLA (9.0 - 19.0 MHz)
CLA6 (4.0 - 9.0 MHz)
D850 (800 - 900 MHz)
D1300 (1250 - 1350 MHz)
D3900 (3850 - 3950 MHz)
D4200 (4150 - 4250 MHz)
D4600 (4550 - 4650 MHz)
D4900 (4850 - 4950 MHz)
D6.5GHz (6450 - 6550 MHz)
D7GHz (6950 - 7050 MHz)
D8GHz (7950 - 8050 MHz)
D9GHz (8950 - 9050 MHz)

Detailed Specification: Pulse Shape: Square
Repetition Rate: 9 Hz
Duty Cycle: 9 %

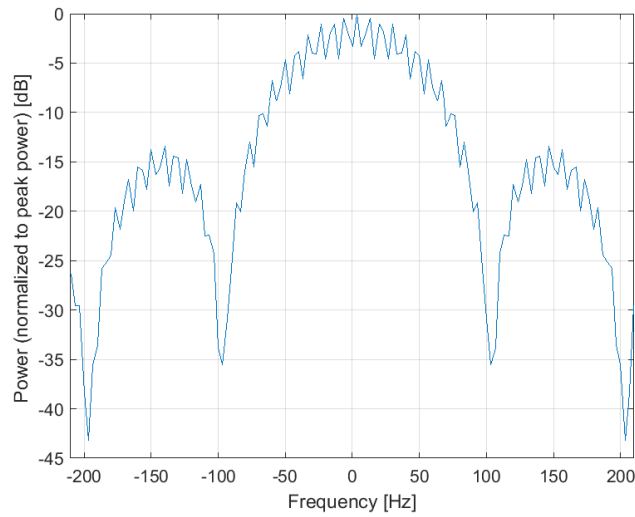
Bandwidth: 0.0 MHz
Integration Time: 111.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

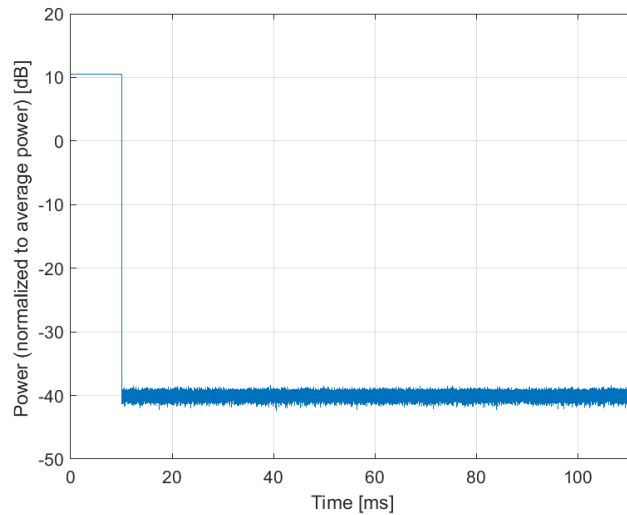
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

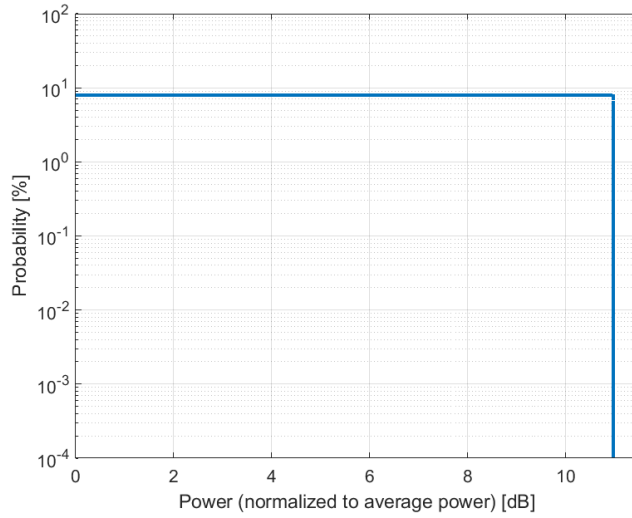
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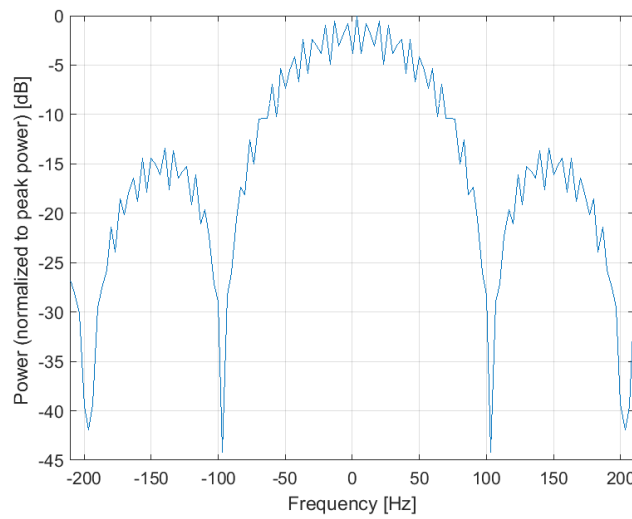
| | |
|-------------------------|--|
| Name: | Pulse Waveform (Square, 125ms, 10ms) |
| Group: | Test |
| UID: | 10995-AAA |
| PAR: ¹ | 10.97 dB |
| MIF: ² | 2.57 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Pulse Shape: Square Repetition Rate: 8 Hz Duty Cycle: 8 % |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 125.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

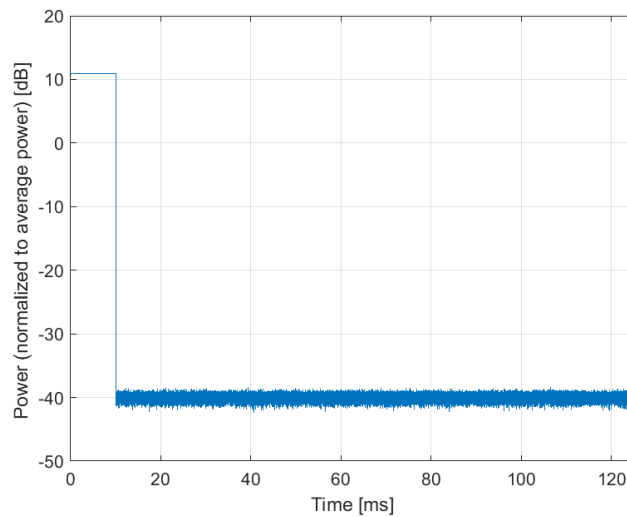
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 142.86ms, 10ms)**

Group: Test
UID: 10996-AAA

PAR: ¹ **11.55 dB**
MIF: ² **3.09 dB**

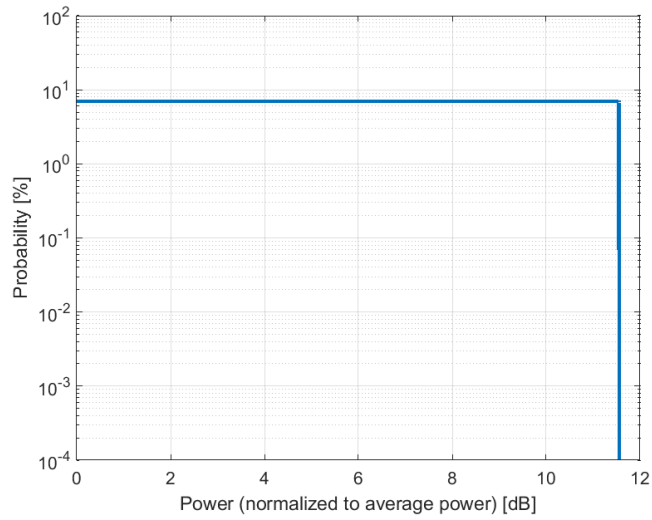
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
D300 (300.0 MHz)
D400 (400.0 MHz)
D450 (450.0 MHz)
D600V3 (600.0 MHz)
D750 (750.0 MHz)
D835 (835.0 MHz)
D900 (900.0 MHz)
D1450 (1450.0 MHz)
D1500 (1500.0 MHz)
D1640 (1640.0 MHz)
D1750 (1750.0 MHz)
D1765 (1765.0 MHz)
D1800 (1800.0 MHz)
D1900 (1900.0 MHz)
D1950 (1950.0 MHz)
D2000 (2000.0 MHz)
D2100 (2100.0 MHz)
D2300 (2300.0 MHz)
D2450 (2450.0 MHz)
D2550V2 (2250.0 MHz)
D2600 (2600.0 MHz)
D3000 (3000.0 MHz)
D3300V2 (3300.0 MHz)
D3500 (3500.0 MHz)
D3700 (3700.0 MHz)
D5GHz (5000.0 - 6000.0 MHz)
CD700 (700.0 MHz)
CD835 (835.0 MHz)
CD1880 (1880.0 MHz)
CD2150 (2150.0 MHz)
CD2450 (2450.0 MHz)
CD2600V3 (2600.0 MHz)
CD3500V3 (3500.0 MHz)
CD5500V3 (5500.0 MHz)
ITD700 (700.0 MHz)
ITD835 (835.0 MHz)
ITD1880 (1880.0 MHz)
ITD2150 (2150.0 MHz)
ITD2600 (2600.0 MHz)
ITD3500 (3500.0 MHz)
ITD5500 (5000.0 - 5900.0 MHz)
CLA30 (30.0 MHz)
CLA64 (64.0 MHz)
CLA128 (128.0 MHz)
CLA150 (150.0 MHz)
CLA220 (220.0 MHz)
FullSpan (0.0 - 6000.0 MHz)
Validation band (0.0 - 6000.0 MHz)
CLA (9.0 - 19.0 MHz)
CLA6 (4.0 - 9.0 MHz)
D850 (800 - 900 MHz)
D1300 (1250 - 1350 MHz)
D3900 (3850 - 3950 MHz)
D4200 (4150 - 4250 MHz)
D4600 (4550 - 4650 MHz)
D4900 (4850 - 4950 MHz)
D6.5GHz (6450 - 6550 MHz)
D7GHz (6950 - 7050 MHz)
D8GHz (7950 - 8050 MHz)
D9GHz (8950 - 9050 MHz)

Detailed Specification: Pulse Shape: Square
Repetition Rate: 7 Hz
Duty Cycle: 7 %

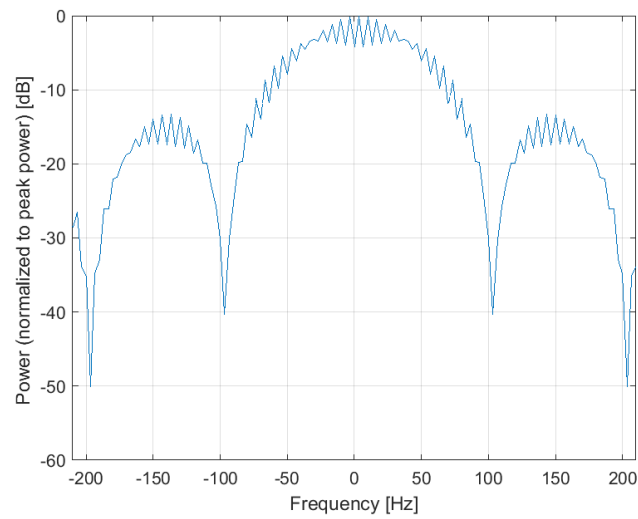
Bandwidth: 0.0 MHz
Integration Time: 142.9 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

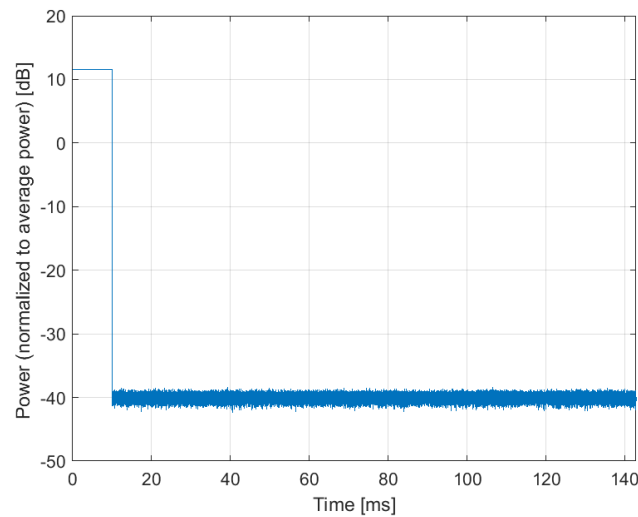
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

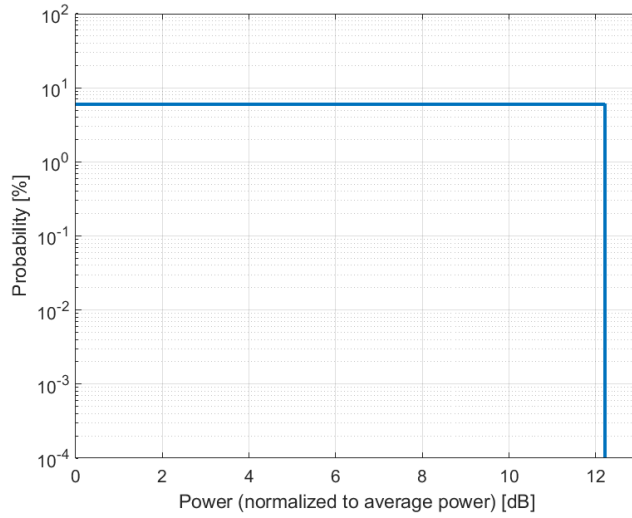
Calibration Laboratory of Schmid & Partner Engineering AG

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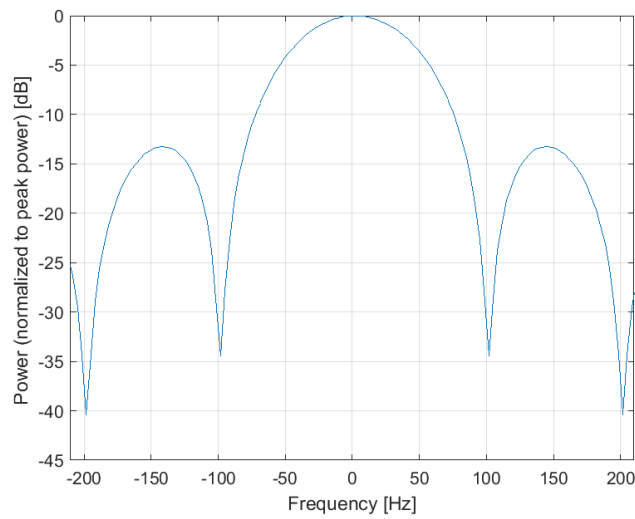
| | |
|-------------------------|--|
| Name: | Pulse Waveform (Square, 166.67ms, 10ms) |
| Group: | Test |
| UID: | 10997-AAA |
| PAR: ¹ | 12.22 dB |
| MIF: ² | 3.67 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Pulse Shape: Square Repetition Rate: 6 Hz Duty Cycle: 6 % |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 166.7 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

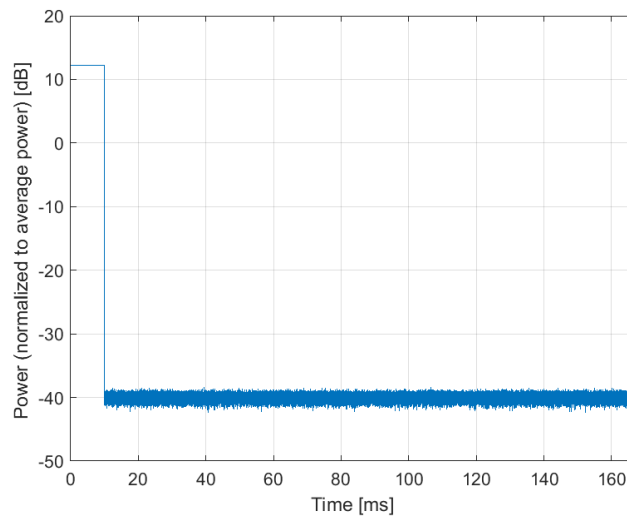
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 200ms, 10ms)**

Group: Test
UID: 10998-AAA

PAR: ¹ **13.01 dB**
MIF: ² **4.34 dB**

Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band:

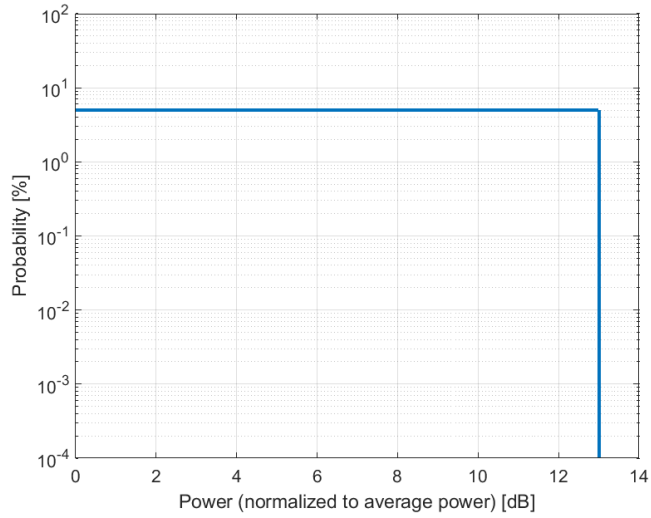
- MRI 1.5T (59.0 - 69.0 MHz)
- MRI 3T (123.0 - 133.0 MHz)
- D300 (300.0 MHz)
- D400 (400.0 MHz)
- D450 (450.0 MHz)
- D600V3 (600.0 MHz)
- D750 (750.0 MHz)
- D835 (835.0 MHz)
- D900 (900.0 MHz)
- D1450 (1450.0 MHz)
- D1500 (1500.0 MHz)
- D1640 (1640.0 MHz)
- D1750 (1750.0 MHz)
- D1765 (1765.0 MHz)
- D1800 (1800.0 MHz)
- D1900 (1900.0 MHz)
- D1950 (1950.0 MHz)
- D2000 (2000.0 MHz)
- D2100 (2100.0 MHz)
- D2300 (2300.0 MHz)
- D2450 (2450.0 MHz)
- D2550V2 (2250.0 MHz)
- D2600 (2600.0 MHz)
- D3000 (3000.0 MHz)
- D3300V2 (3300.0 MHz)
- D3500 (3500.0 MHz)
- D3700 (3700.0 MHz)
- D5GHz (5000.0 - 6000.0 MHz)
- CD700 (700.0 MHz)
- CD835 (835.0 MHz)
- CD1880 (1880.0 MHz)
- CD2150 (2150.0 MHz)
- CD2450 (2450.0 MHz)
- CD2600V3 (2600.0 MHz)
- CD3500V3 (3500.0 MHz)
- CD5500V3 (5500.0 MHz)
- ITD700 (700.0 MHz)
- ITD835 (835.0 MHz)
- ITD1880 (1880.0 MHz)
- ITD2150 (2150.0 MHz)
- ITD2600 (2600.0 MHz)
- ITD3500 (3500.0 MHz)
- ITD5500 (5000.0 - 5900.0 MHz)
- CLA30 (30.0 MHz)
- CLA64 (64.0 MHz)
- CLA128 (128.0 MHz)
- CLA150 (150.0 MHz)
- CLA220 (220.0 MHz)
- FullSpan (0.0 - 6000.0 MHz)
- Validation band (0.0 - 6000.0 MHz)
- CLA (9.0 - 19.0 MHz)
- CLA6 (4.0 - 9.0 MHz)
- D850 (800 - 900 MHz)
- D1300 (1250 - 1350 MHz)
- D3900 (3850 - 3950 MHz)
- D4200 (4150 - 4250 MHz)
- D4600 (4550 - 4650 MHz)
- D4900 (4850 - 4950 MHz)
- D6.5GHz (6450 - 6550 MHz)
- D7GHz (6950 - 7050 MHz)
- D8GHz (7950 - 8050 MHz)
- D9GHz (8950 - 9050 MHz)

Detailed Specification: Pulse Shape: Square
Repetition Rate: 5 Hz
Duty Cycle: 5 %

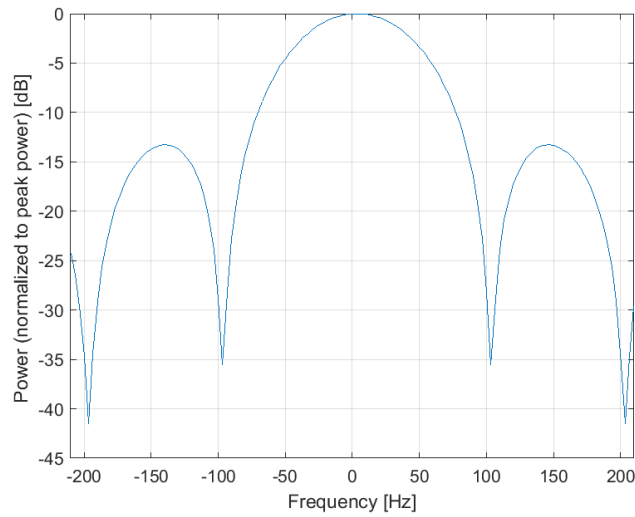
Bandwidth: 0.0 MHz
Integration Time: 200.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

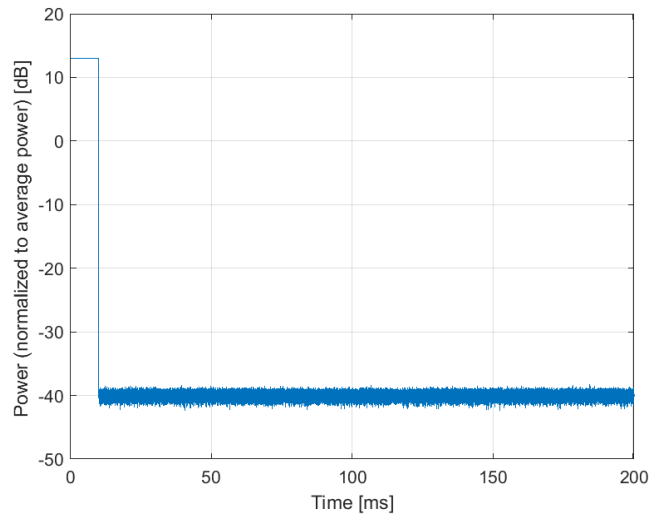
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

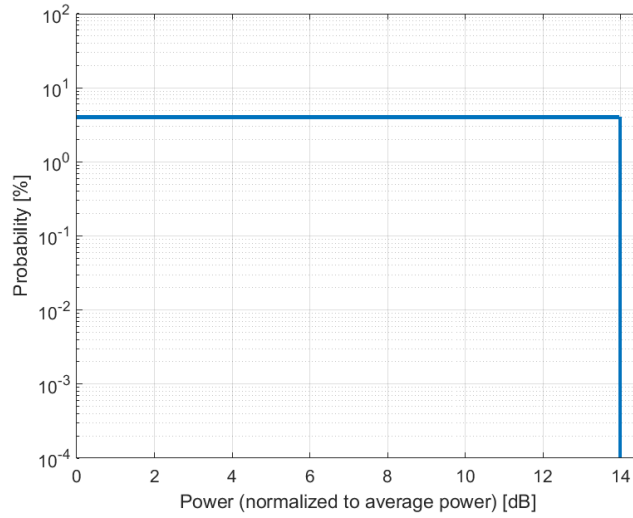
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

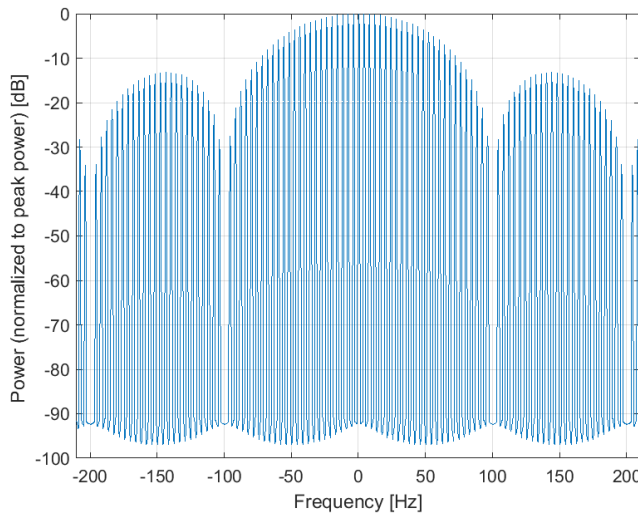
| | |
|-------------------------|--|
| Name: | Pulse Waveform (Square, 250ms, 10ms) |
| Group: | Test |
| UID: | 10999-AAA |
| PAR: ¹ | 13.98 dB |
| MIF: ² | 5.13 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Pulse Shape: Square Repetition Rate: 4 Hz Duty Cycle: 4 % |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 250.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

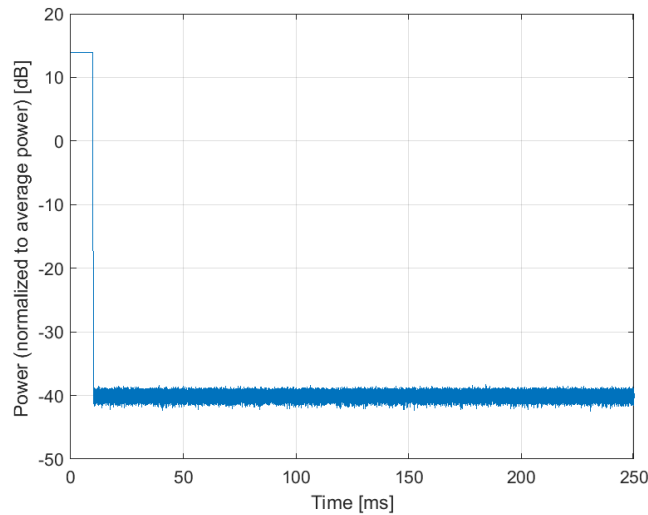
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

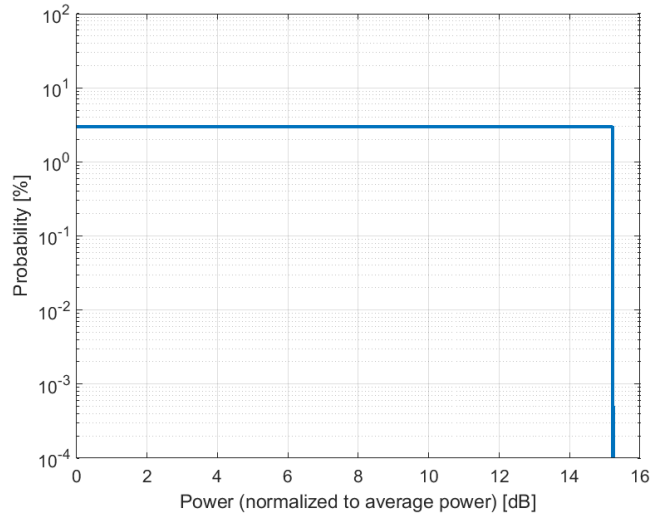
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

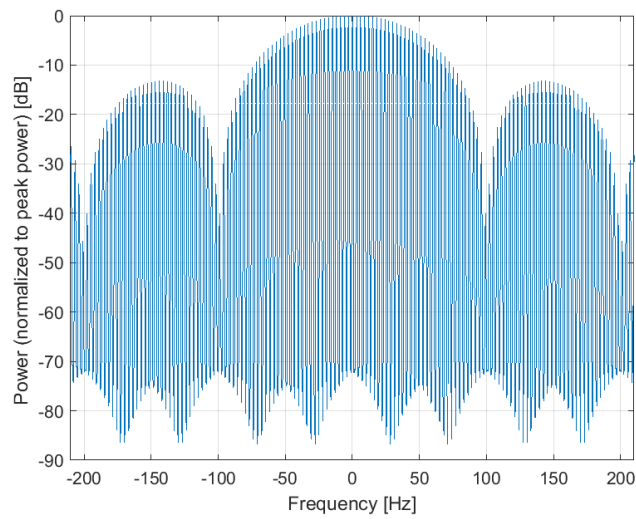
| | |
|-------------------------|--|
| Name: | Pulse Waveform (Square, 333.33ms, 10ms) |
| Group: | Test |
| UID: | 11000-AAA |
| PAR: ¹ | 15.23 dB |
| MIF: ² | 6.08 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Pulse Shape: Square Repetition Rate: 3 Hz Duty Cycle: 3 % |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 333.3 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

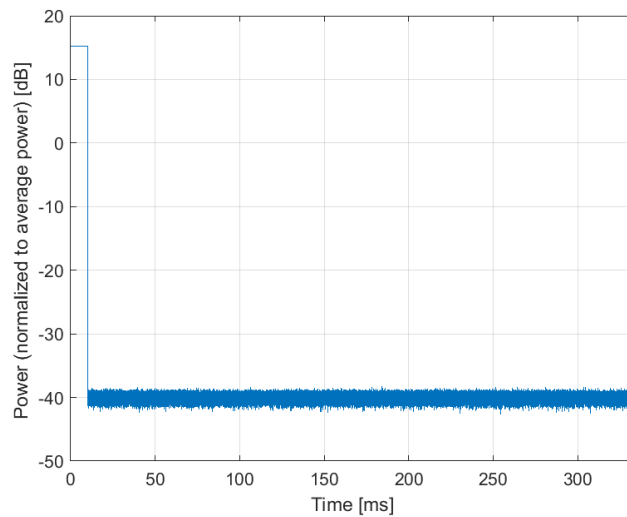
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 500ms, 10ms)**

Group: Test
UID: 11001-AAA

PAR: ¹ **16.99 dB**
MIF: ² **7.27 dB**

Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band:

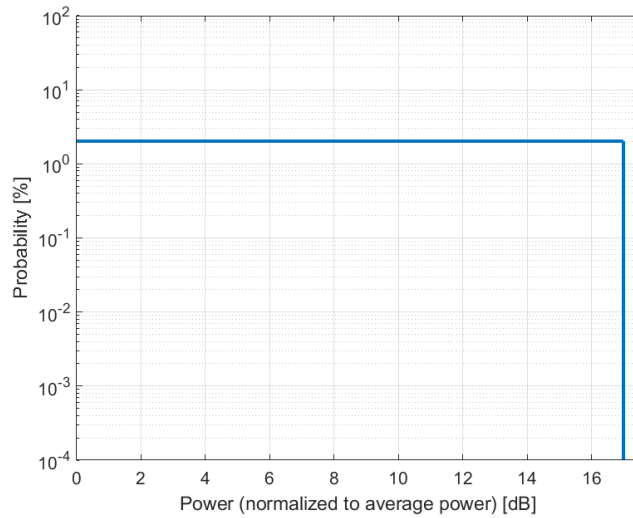
- MRI 1.5T (59.0 - 69.0 MHz)
- MRI 3T (123.0 - 133.0 MHz)
- D300 (300.0 MHz)
- D400 (400.0 MHz)
- D450 (450.0 MHz)
- D600V3 (600.0 MHz)
- D750 (750.0 MHz)
- D835 (835.0 MHz)
- D900 (900.0 MHz)
- D1450 (1450.0 MHz)
- D1500 (1500.0 MHz)
- D1640 (1640.0 MHz)
- D1750 (1750.0 MHz)
- D1765 (1765.0 MHz)
- D1800 (1800.0 MHz)
- D1900 (1900.0 MHz)
- D1950 (1950.0 MHz)
- D2000 (2000.0 MHz)
- D2100 (2100.0 MHz)
- D2300 (2300.0 MHz)
- D2450 (2450.0 MHz)
- D2550V2 (2250.0 MHz)
- D2600 (2600.0 MHz)
- D3000 (3000.0 MHz)
- D3300V2 (3300.0 MHz)
- D3500 (3500.0 MHz)
- D3700 (3700.0 MHz)
- D5GHz (5000.0 - 6000.0 MHz)
- CD700 (700.0 MHz)
- CD835 (835.0 MHz)
- CD1880 (1880.0 MHz)
- CD2150 (2150.0 MHz)
- CD2450 (2450.0 MHz)
- CD2600V3 (2600.0 MHz)
- CD3500V3 (3500.0 MHz)
- CD5500V3 (5500.0 MHz)
- ITD700 (700.0 MHz)
- ITD835 (835.0 MHz)
- ITD1880 (1880.0 MHz)
- ITD2150 (2150.0 MHz)
- ITD2600 (2600.0 MHz)
- ITD3500 (3500.0 MHz)
- ITD5500 (5000.0 - 5900.0 MHz)
- CLA30 (30.0 MHz)
- CLA64 (64.0 MHz)
- CLA128 (128.0 MHz)
- CLA150 (150.0 MHz)
- CLA220 (220.0 MHz)
- FullSpan (0.0 - 6000.0 MHz)
- Validation band (0.0 - 6000.0 MHz)
- CLA (9.0 - 19.0 MHz)
- CLA6 (4.0 - 9.0 MHz)
- D850 (800 - 900 MHz)
- D1300 (1250 - 1350 MHz)
- D3900 (3850 - 3950 MHz)
- D4200 (4150 - 4250 MHz)
- D4600 (4550 - 4650 MHz)
- D4900 (4850 - 4950 MHz)
- D6.5GHz (6450 - 6550 MHz)
- D7GHz (6950 - 7050 MHz)
- D8GHz (7950 - 8050 MHz)
- D9GHz (8950 - 9050 MHz)

Detailed Specification: Pulse Shape: Square
Repetition Rate: 2 Hz
Duty Cycle: 2 %

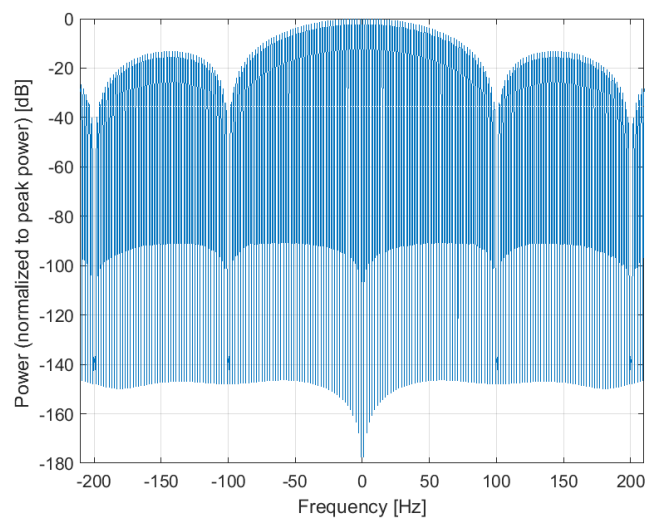
Bandwidth: 0.0 MHz
Integration Time: 500.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

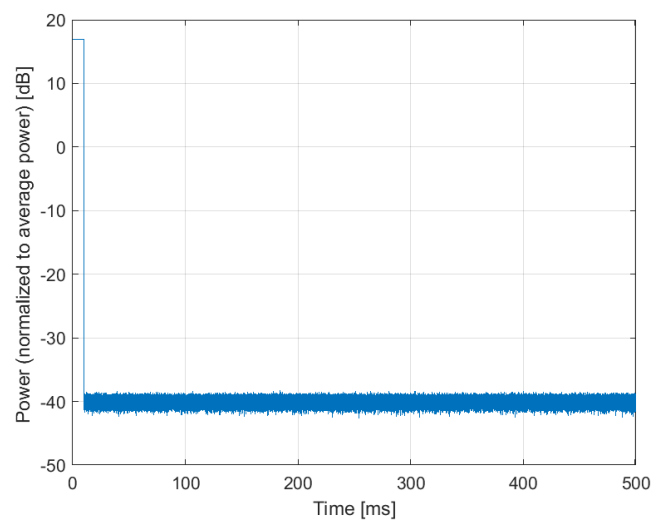
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

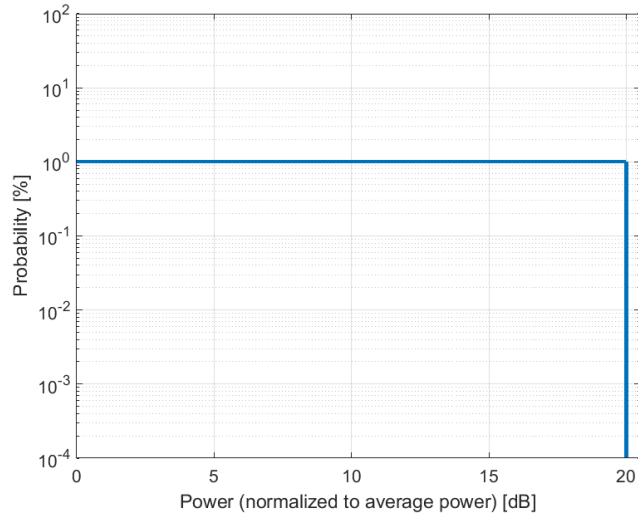
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

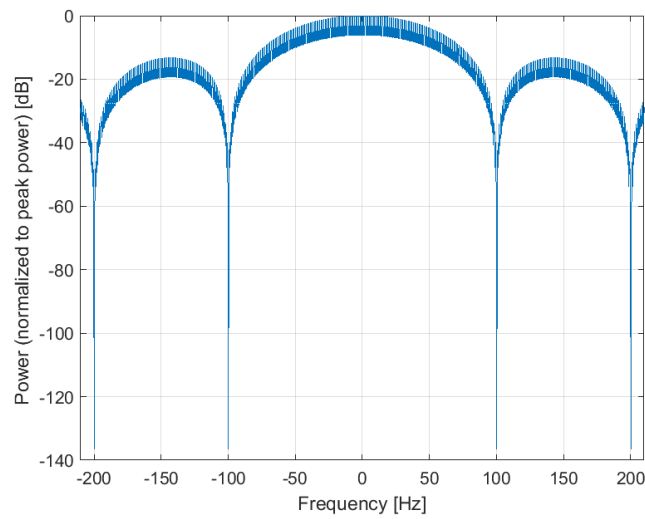
| | |
|-------------------------|--|
| Name: | Pulse Waveform (Square, 1000ms, 10ms) |
| Group: | Test |
| UID: | 11002-AAA |
| PAR: ¹ | 20.00 dB |
| MIF: ² | 8.74 dB |
| Standard Reference: | SPEAG |
| Category: | Periodic pulsed modulation |
| Modulation: | AM |
| Frequency Band: | MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) D300 (300.0 MHz) D400 (400.0 MHz) D450 (450.0 MHz) D600V3 (600.0 MHz) D750 (750.0 MHz) D835 (835.0 MHz) D900 (900.0 MHz) D1450 (1450.0 MHz) D1500 (1500.0 MHz) D1640 (1640.0 MHz) D1750 (1750.0 MHz) D1765 (1765.0 MHz) D1800 (1800.0 MHz) D1900 (1900.0 MHz) D1950 (1950.0 MHz) D2000 (2000.0 MHz) D2100 (2100.0 MHz) D2300 (2300.0 MHz) D2450 (2450.0 MHz) D2550V2 (2250.0 MHz) D2600 (2600.0 MHz) D3000 (3000.0 MHz) D3300V2 (3300.0 MHz) D3500 (3500.0 MHz) D3700 (3700.0 MHz) D5GHz (5000.0 - 6000.0 MHz) CD700 (700.0 MHz) CD835 (835.0 MHz) CD1880 (1880.0 MHz) CD2150 (2150.0 MHz) CD2450 (2450.0 MHz) CD2600V3 (2600.0 MHz) CD3500V3 (3500.0 MHz) CD5500V3 (5500.0 MHz) ITD700 (700.0 MHz) ITD835 (835.0 MHz) ITD1880 (1880.0 MHz) ITD2150 (2150.0 MHz) ITD2600 (2600.0 MHz) ITD3500 (3500.0 MHz) ITD5500 (5000.0 - 5900.0 MHz) CLA30 (30.0 MHz) CLA64 (64.0 MHz) CLA128 (128.0 MHz) CLA150 (150.0 MHz) CLA220 (220.0 MHz) FullSpan (0.0 - 6000.0 MHz) Validation band (0.0 - 6000.0 MHz) CLA (9.0 - 19.0 MHz) CLA6 (4.0 - 9.0 MHz) D850 (800 - 900 MHz) D1300 (1250 - 1350 MHz) D3900 (3850 - 3950 MHz) D4200 (4150 - 4250 MHz) D4600 (4550 - 4650 MHz) D4900 (4850 - 4950 MHz) D6.5GHz (6450 - 6550 MHz) D7GHz (6950 - 7050 MHz) D8GHz (7950 - 8050 MHz) D9GHz (8950 - 9050 MHz) |
| Detailed Specification: | Pulse Shape: Square Repetition Rate: 1 Hz Duty Cycle: 1 % |
| Bandwidth: | 0.0 MHz |
| Integration Time: | 1000.0 ms |

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

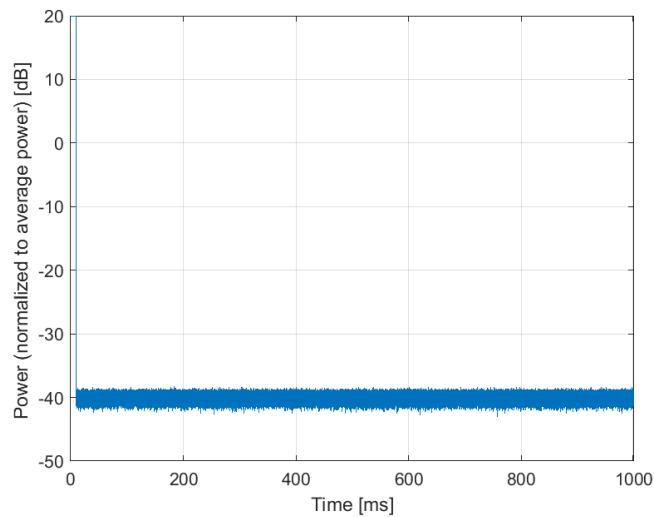
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD
UID: 11003-AAA

PAR: ¹ **10.24 dB**
MIF: ² **-3.11 dB**

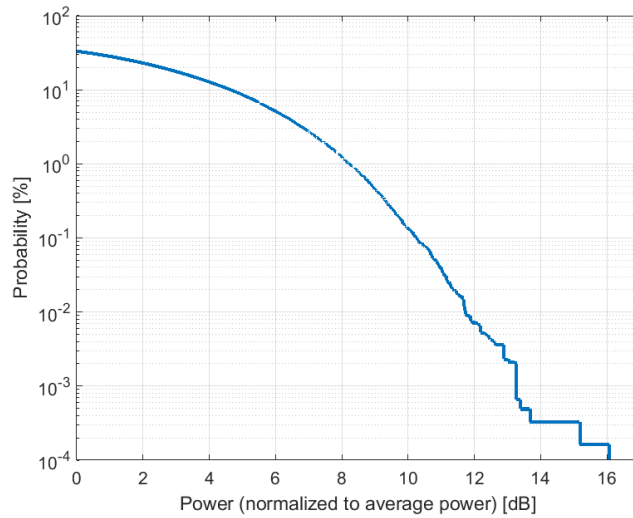
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

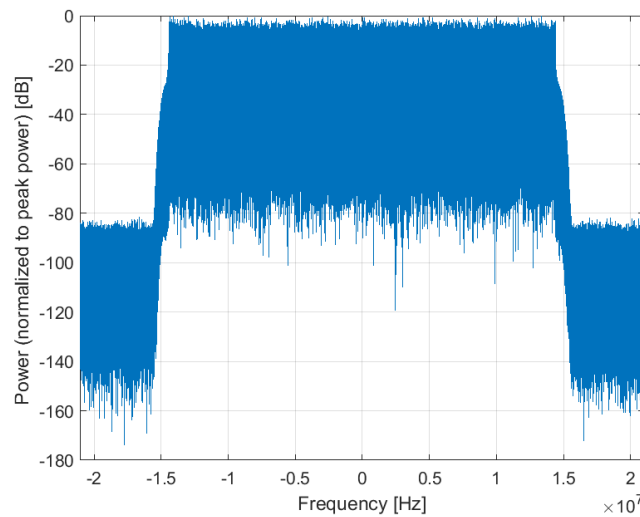
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

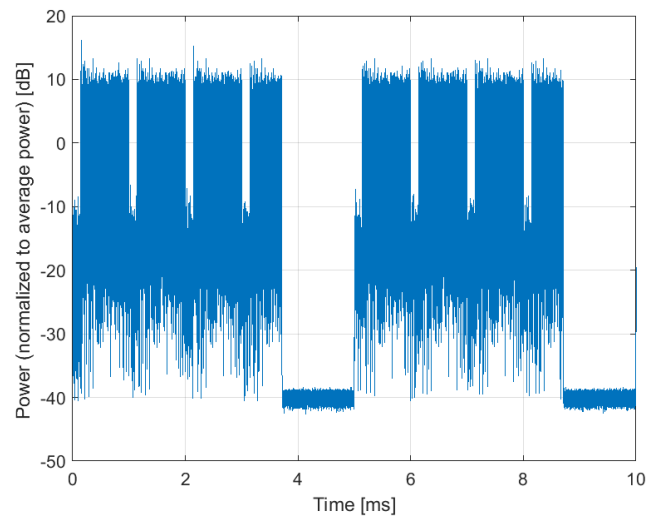
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 11004-AAA

PAR: ¹ **10.73 dB**
MIF: ² **-3.53 dB**

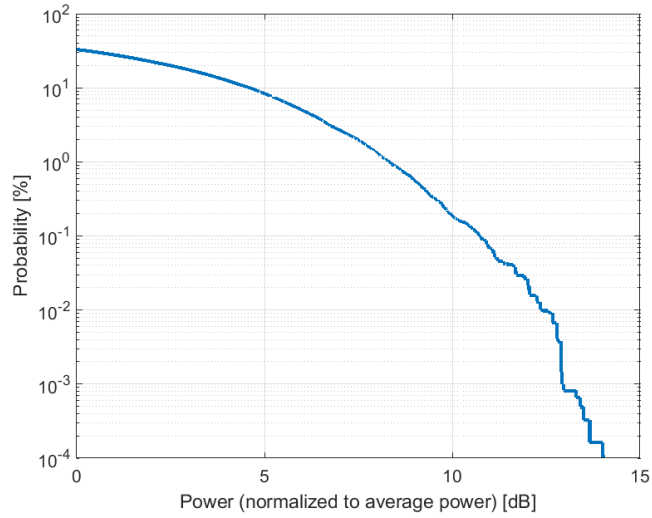
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

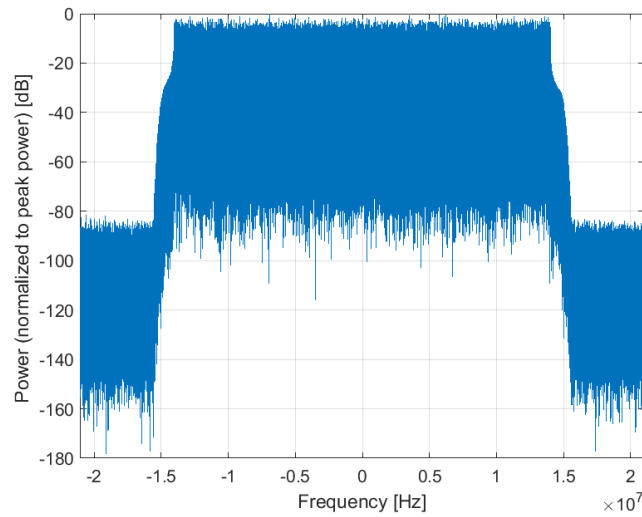
Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

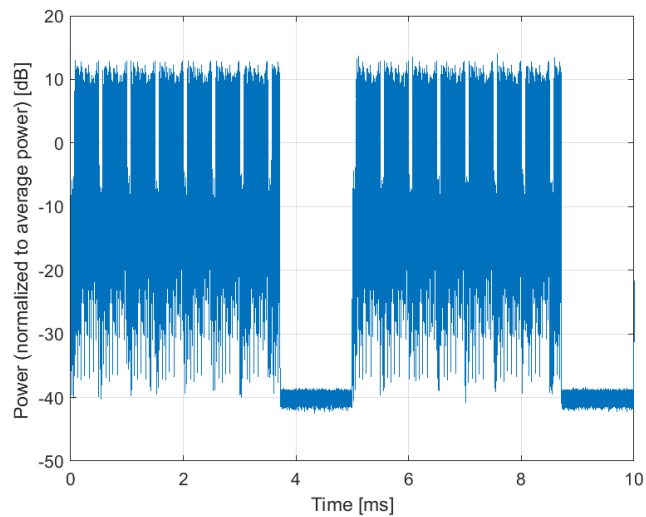
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 11005-AAA

PAR: ¹ **8.70 dB**
MIF: ² **-16.95 dB**

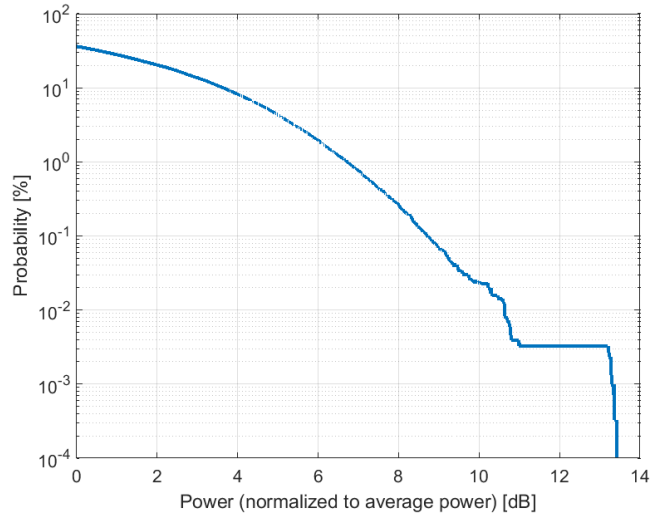
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

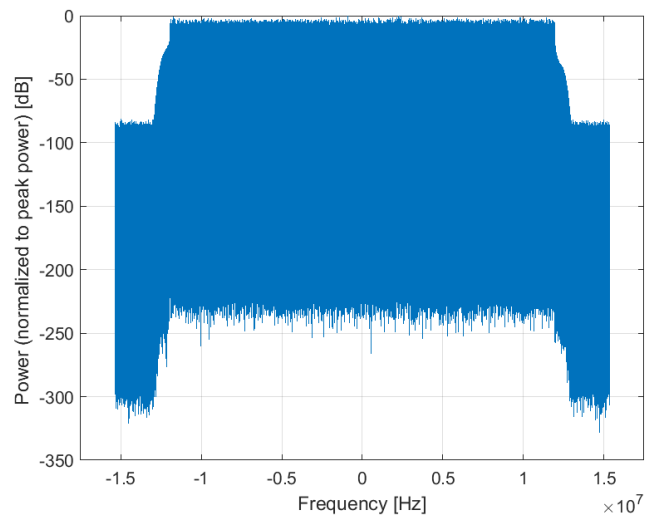
Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

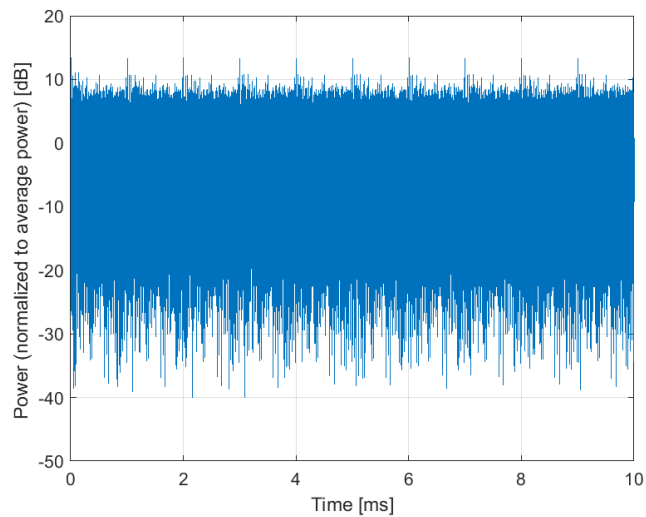
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 11006-AAA

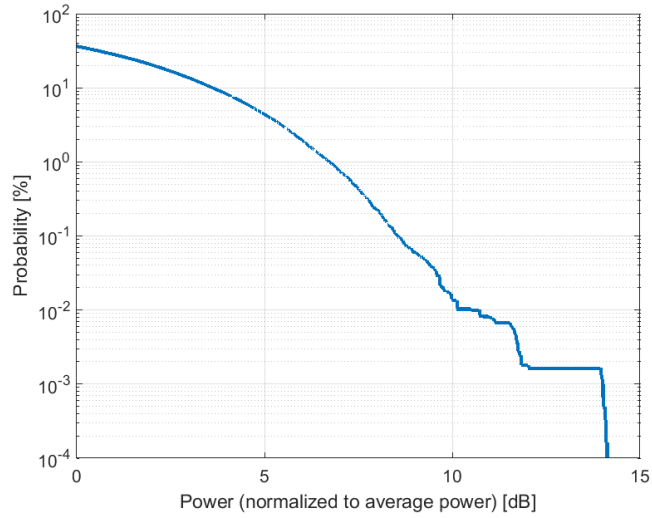
PAR: ¹ **8.55 dB**
MIF: ² **-17.62 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

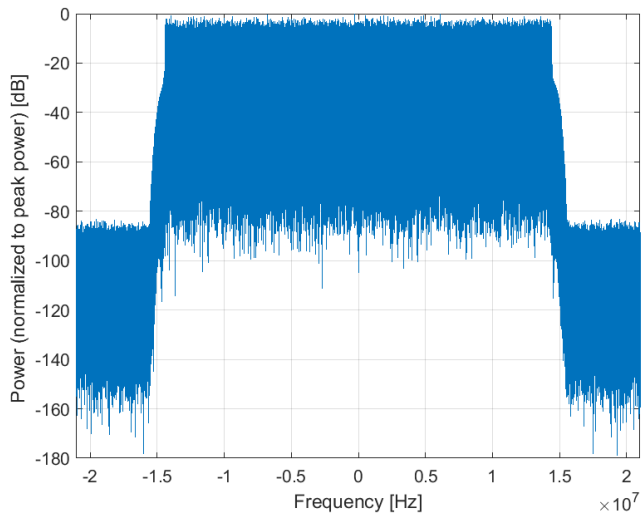
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

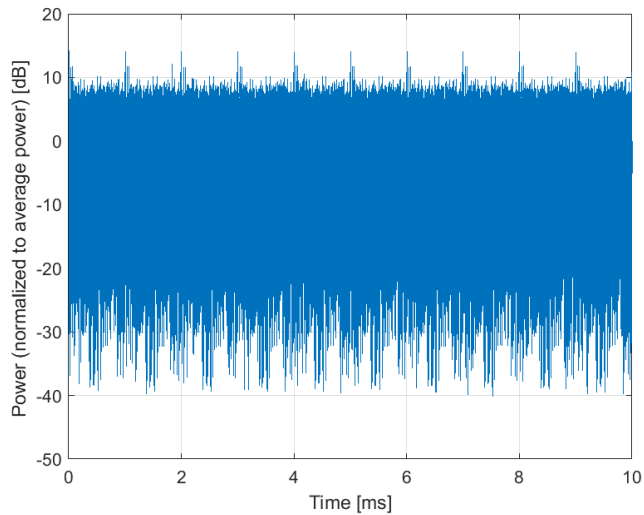
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 11007-AAA

PAR: ¹ **8.46 dB**
MIF: ² **-16.03 dB**

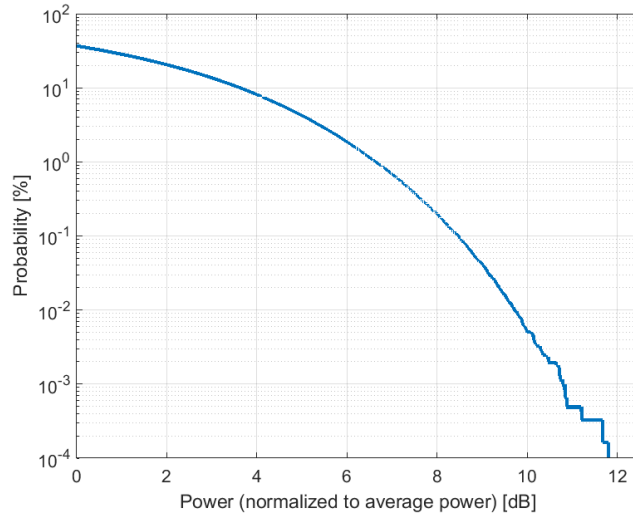
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

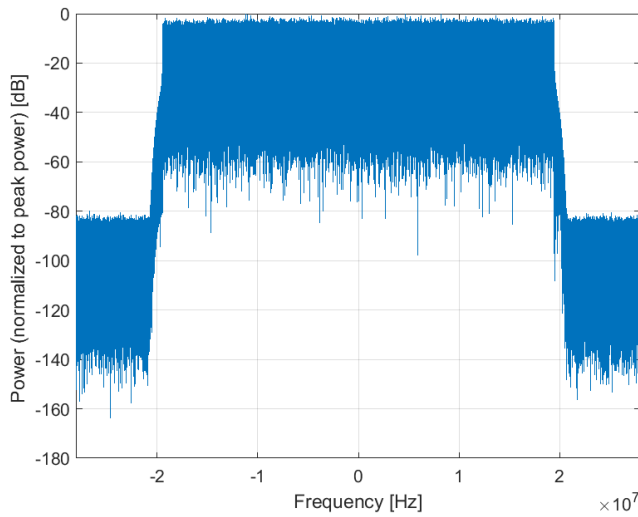
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

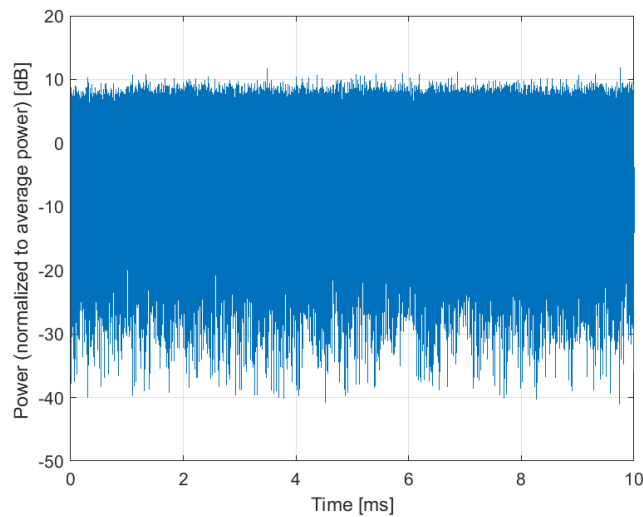
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 11008-AAA

PAR: ¹ **8.51 dB**
MIF: ² **-18.79 dB**

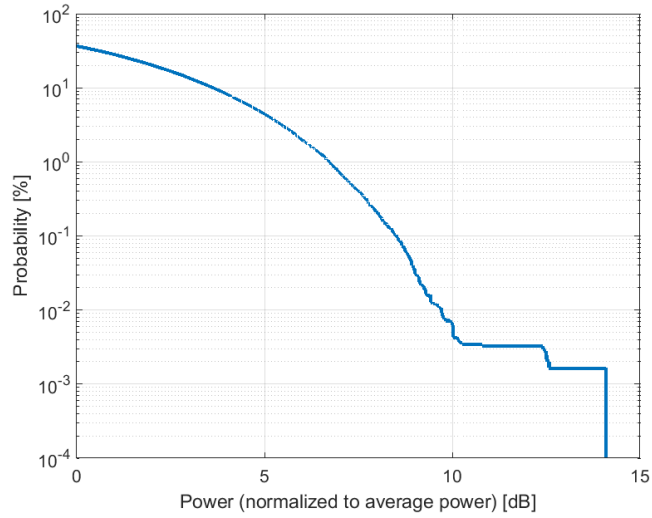
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9

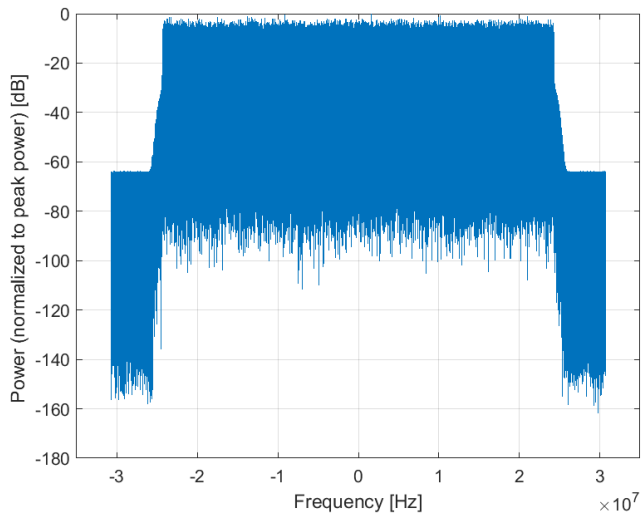
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

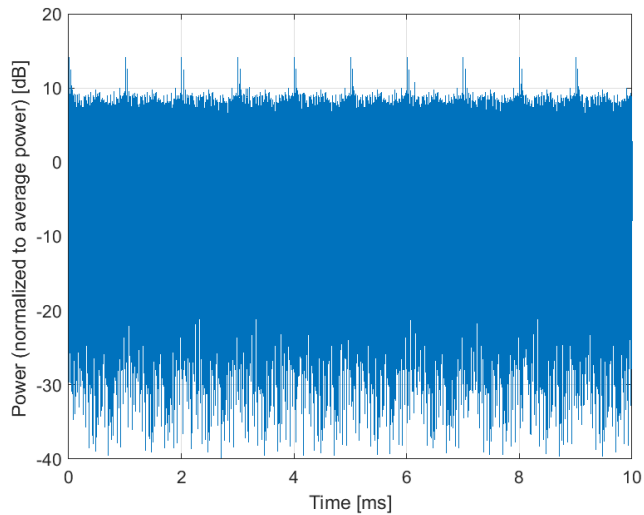
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 11009-AAA

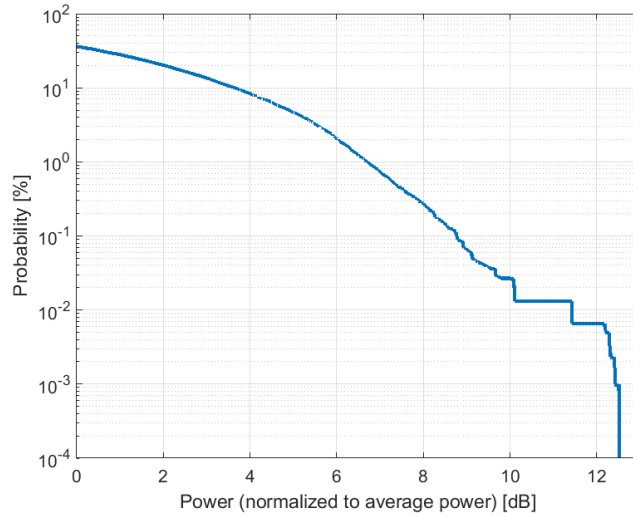
PAR: ¹ **8.76 dB**
MIF: ² **-17.87 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

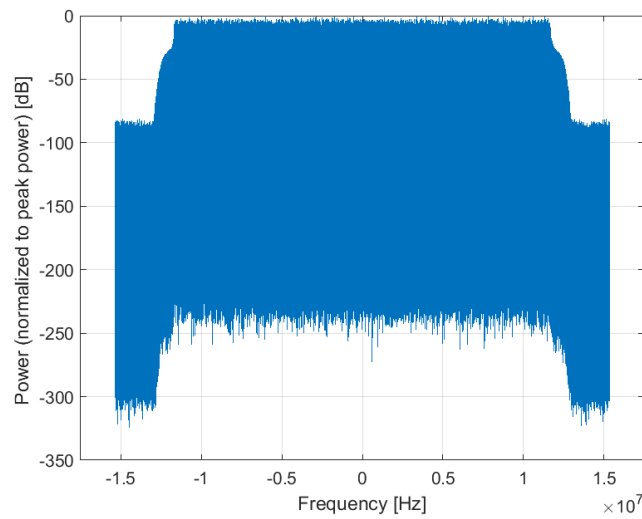
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 25.0 MHz
Integration Time: 10.0 ms

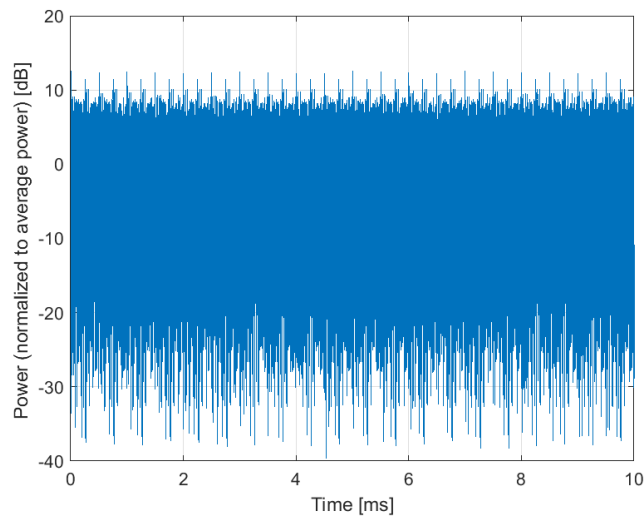
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 11010-AAA

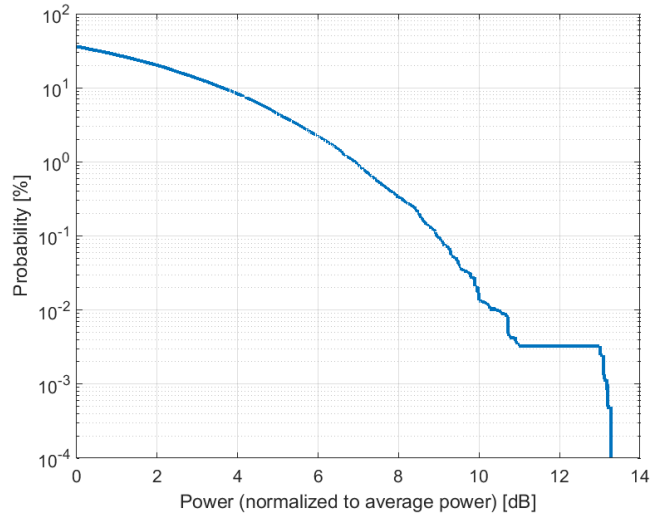
PAR: ¹ **8.95 dB**
MIF: ² **-17.20 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

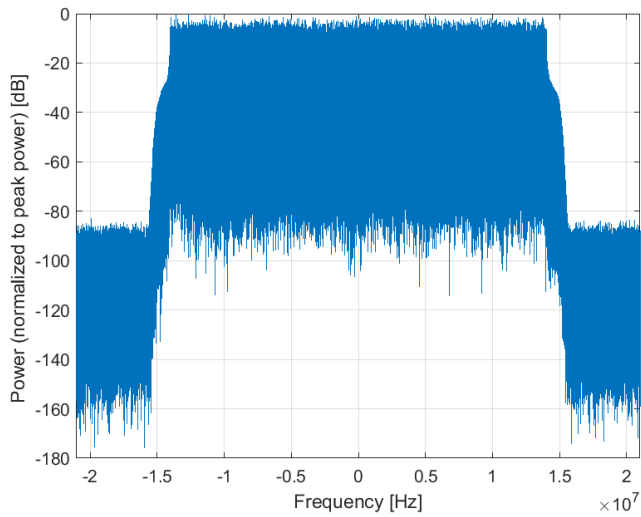
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 30.0 MHz
Integration Time: 10.0 ms

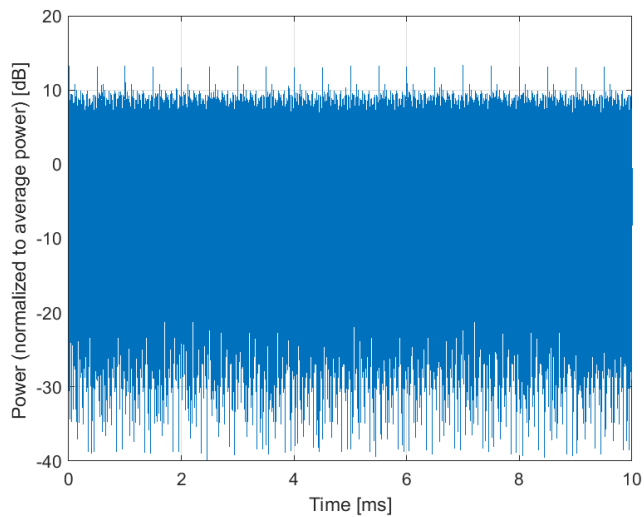
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 11011-AAA

PAR: ¹ **8.96 dB**
MIF: ² **-17.81 dB**

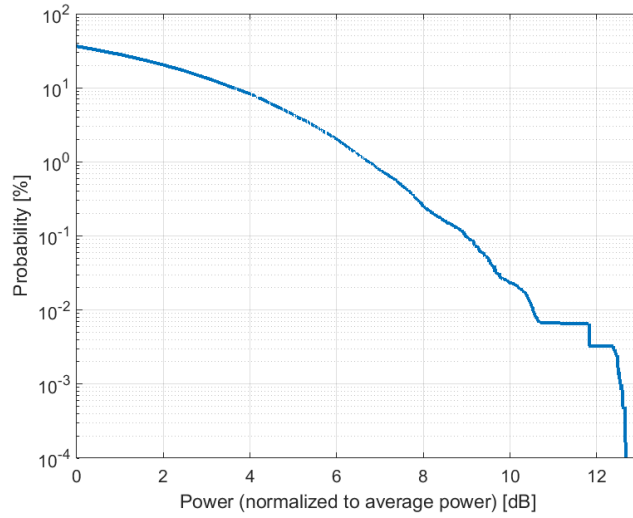
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

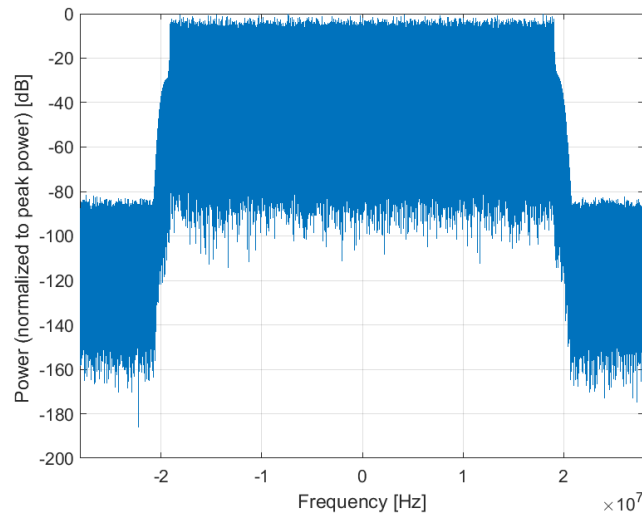
Bandwidth: 40.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

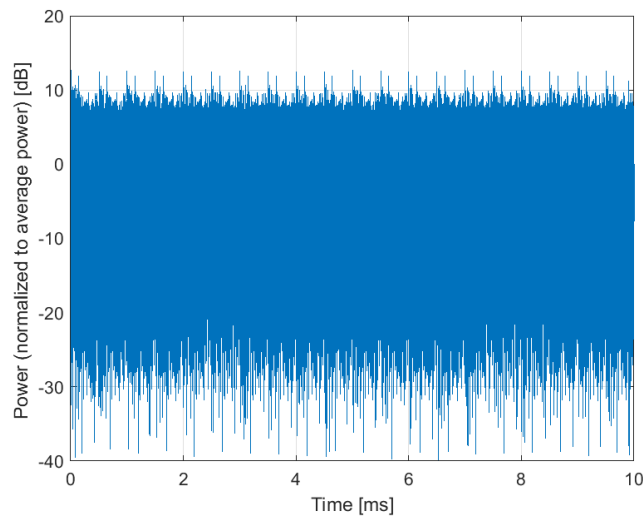
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 FDD
UID: 11012-AAA

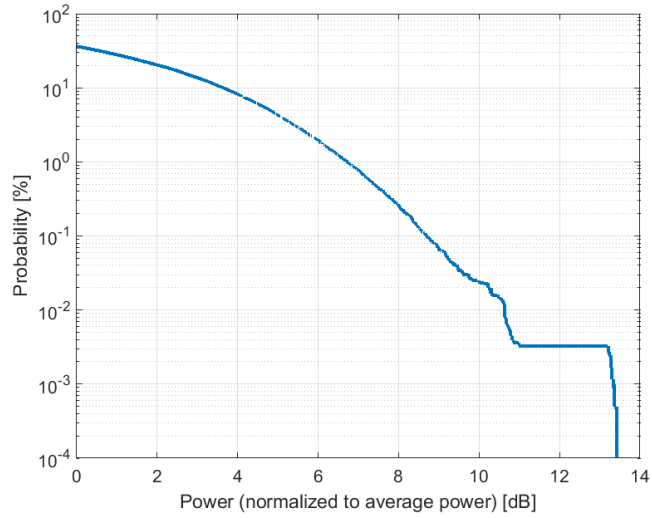
PAR: ¹ **8.68 dB**
MIF: ² **-18.51 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Validation band (0.0 - 6000.0 MHz)

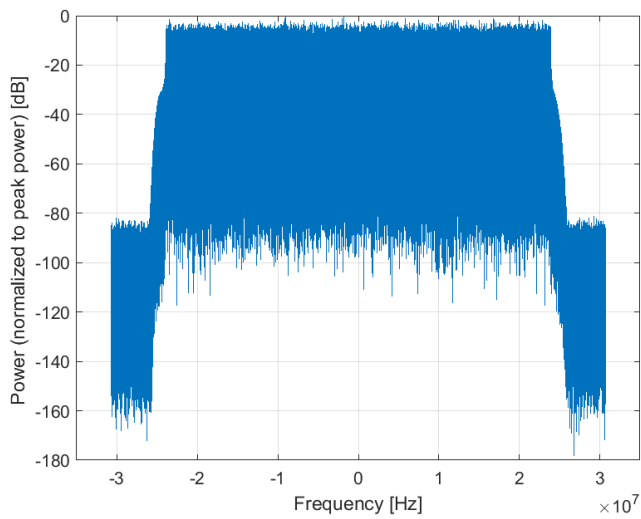
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

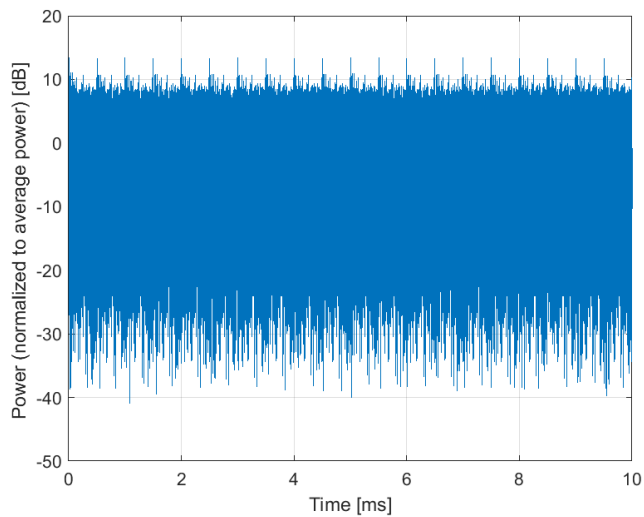
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS1, 99pc duty cycle)**

Group: WLAN
UID: 11013-AAB

PAR: ¹ **8.47 dB**
MIF: ² **-31.11 dB**

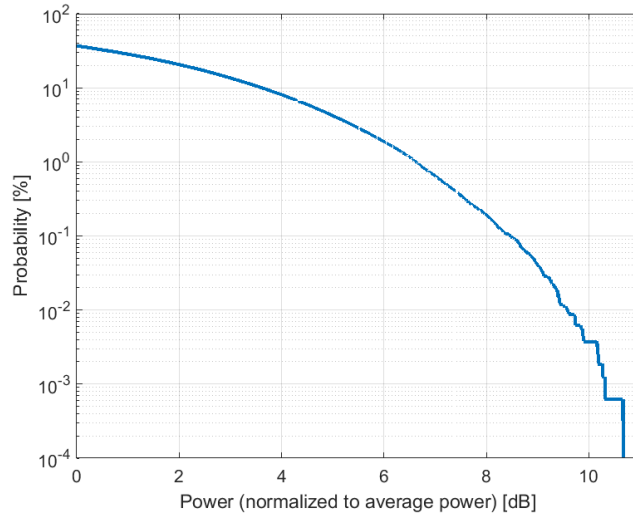
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

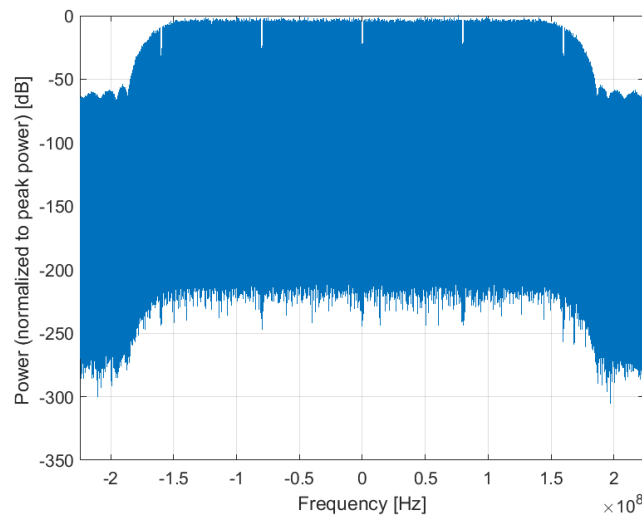
Bandwidth: 320.0 MHz
Integration Time: 0.3 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

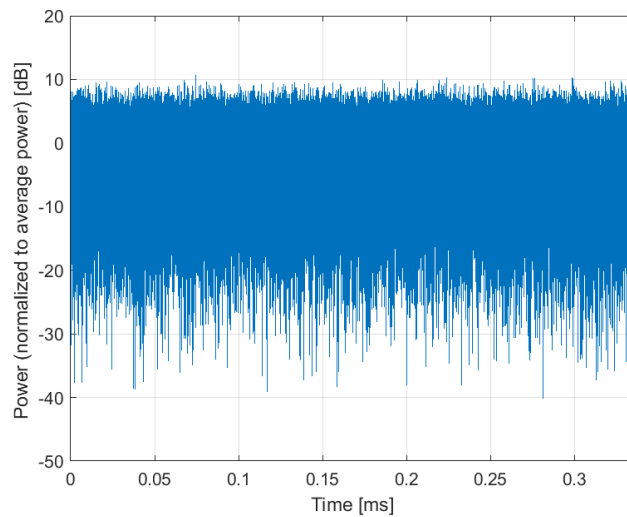
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS2, 99pc duty cycle)**

Group: WLAN
UID: 11014-AAB

PAR: ¹ **8.45 dB**
MIF: ² **-33.11 dB**

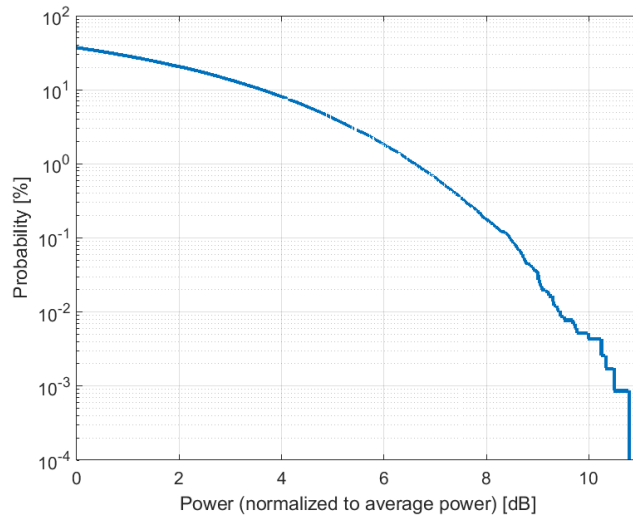
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

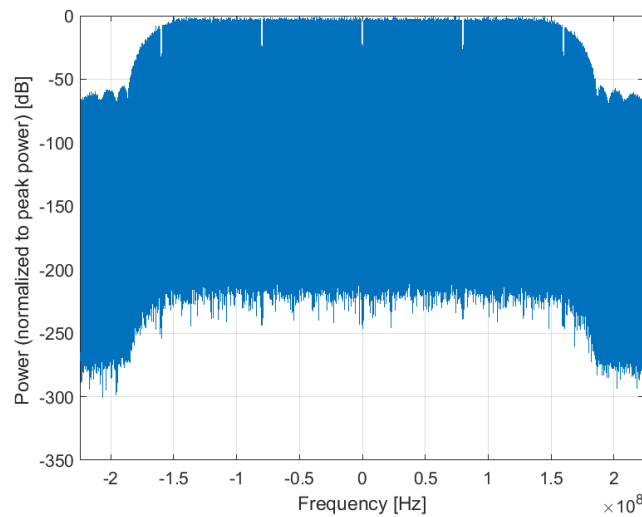
Bandwidth: 320.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

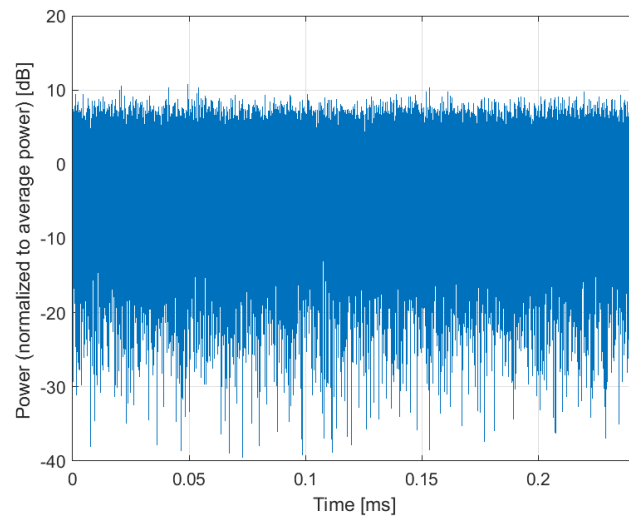
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS3, 99pc duty cycle)**

Group: WLAN
UID: 11015-AAB

PAR: ¹ **8.44 dB**
MIF: ² **-30.71 dB**

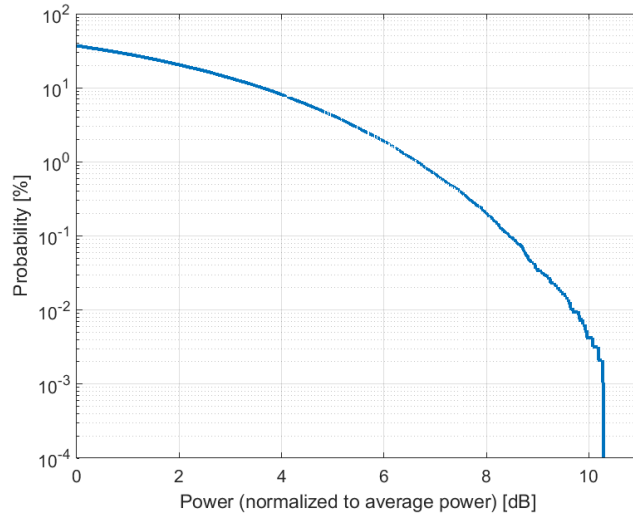
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

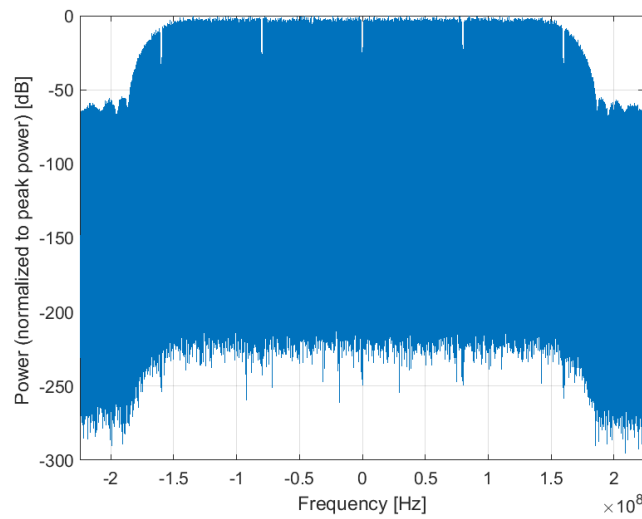
Bandwidth: 320.0 MHz
Integration Time: 0.2 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

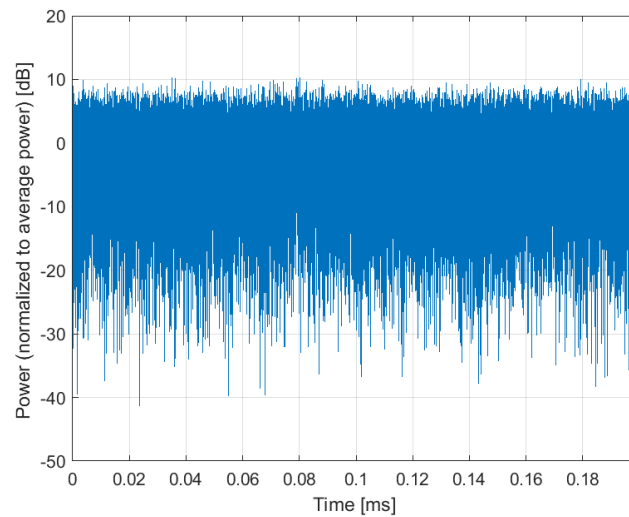
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS4, 99pc duty cycle)**

Group: WLAN
UID: 11016-AAB

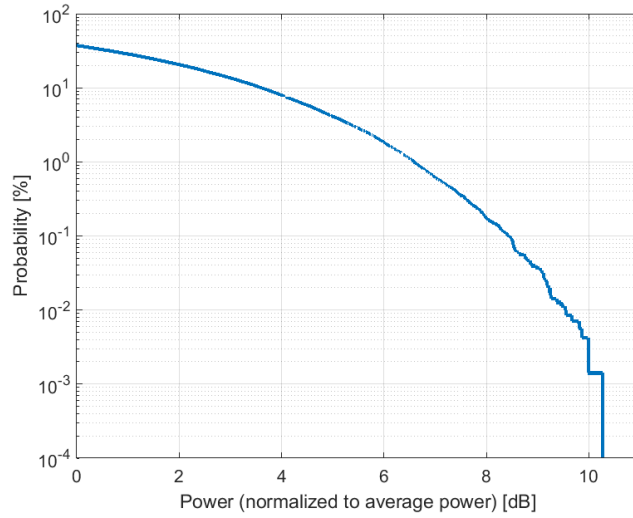
PAR: ¹ **8.44 dB**
MIF: ² **-35.06 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

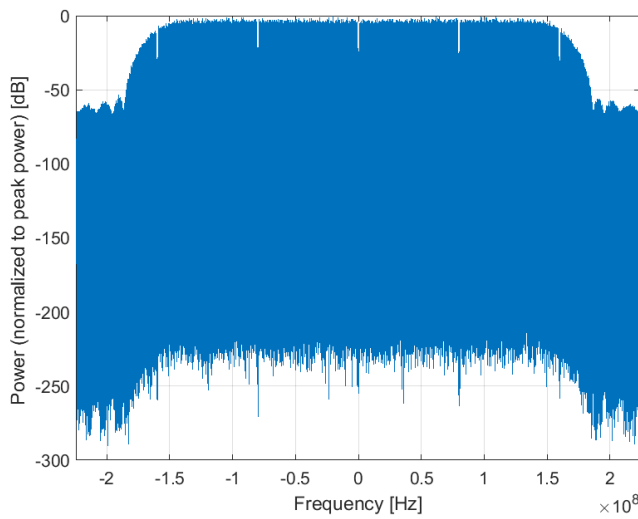
Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

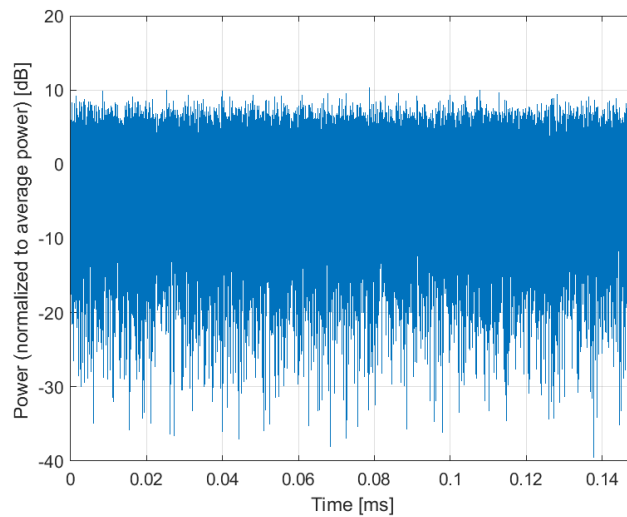
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS5, 99pc duty cycle)**

Group: WLAN
UID: 11017-AAB

PAR: ¹ **8.41 dB**
MIF: ² **-34.74 dB**

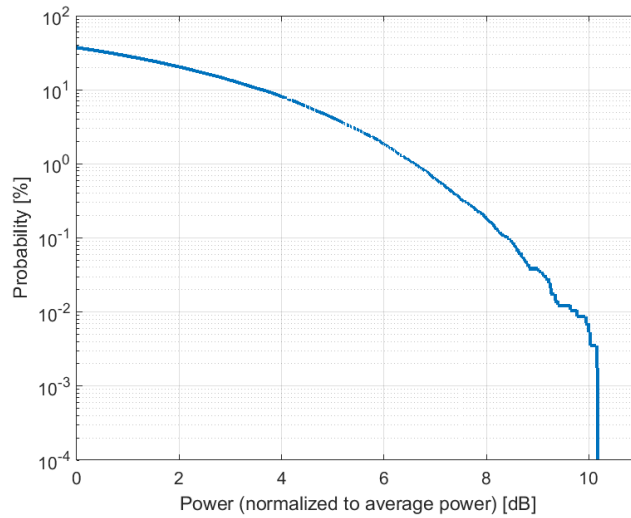
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

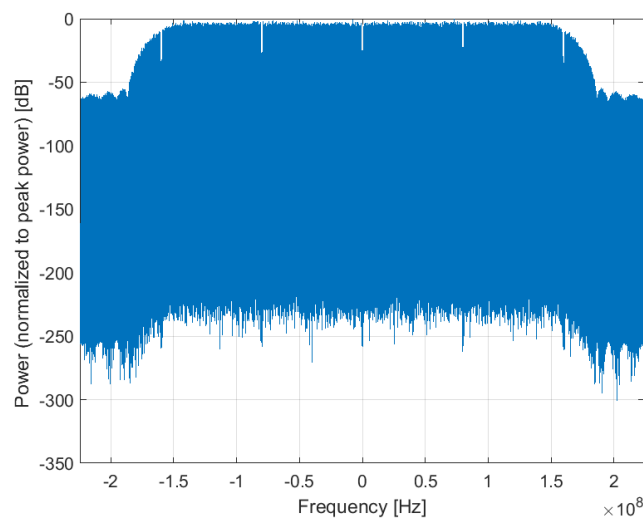
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

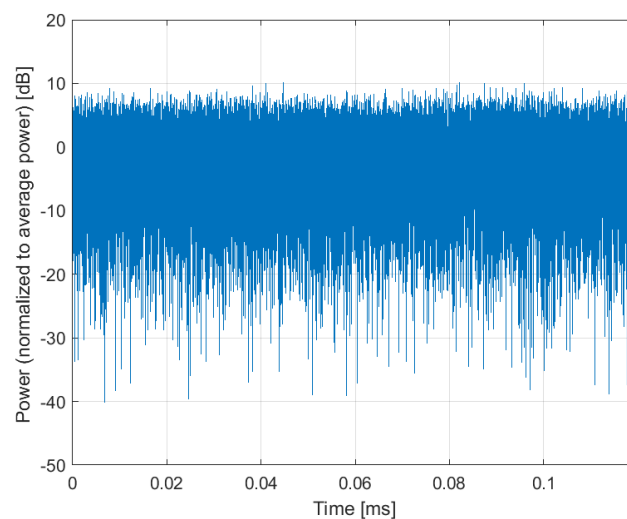
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS6, 99pc duty cycle)**

Group: WLAN
UID: 11018-AAB

PAR: ¹ **8.40 dB**
MIF: ² **-32.59 dB**

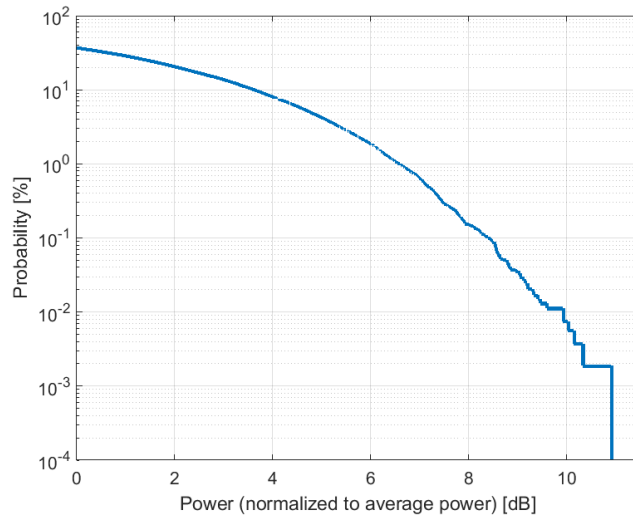
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

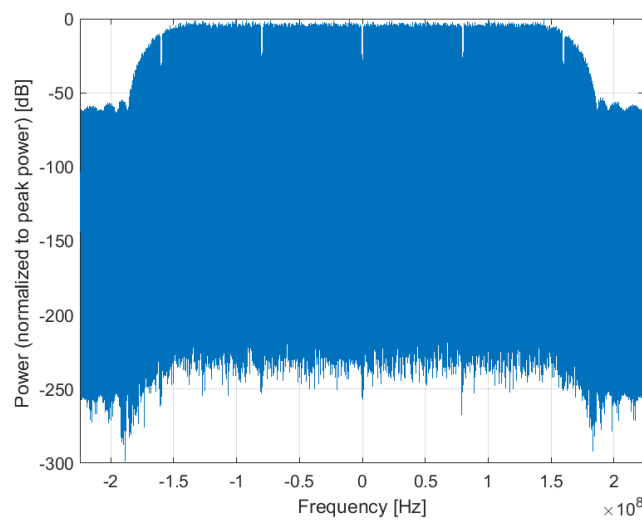
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

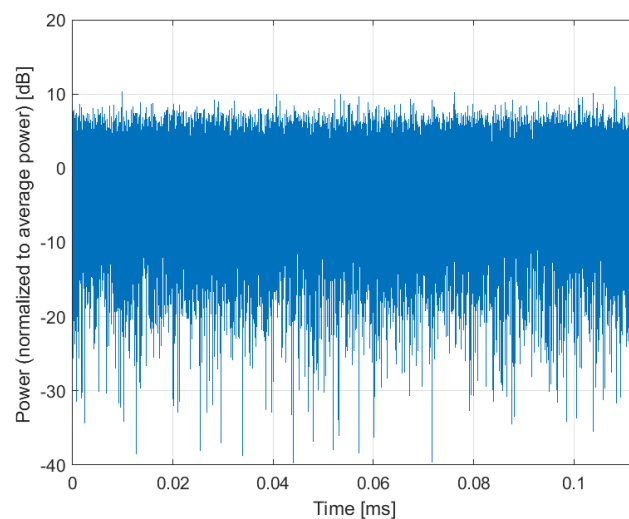
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS7, 99pc duty cycle)**

Group: WLAN
UID: 11019-AAB

PAR: ¹ **8.29 dB**
MIF: ² **-32.74 dB**

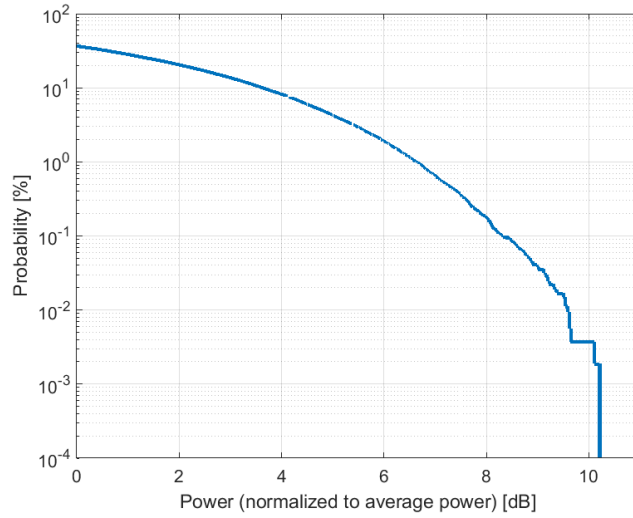
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

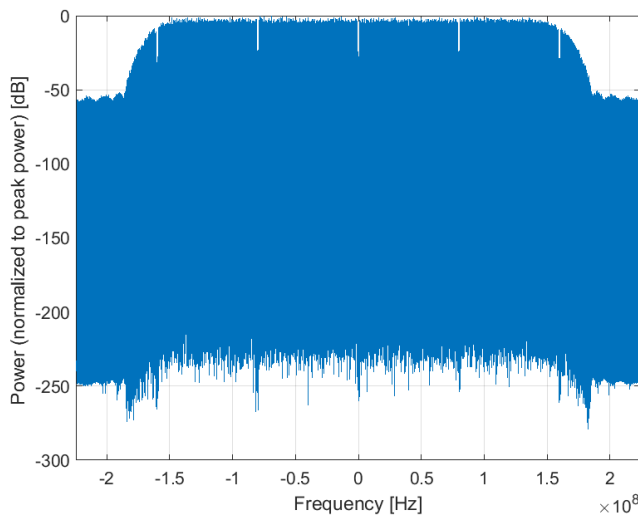
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

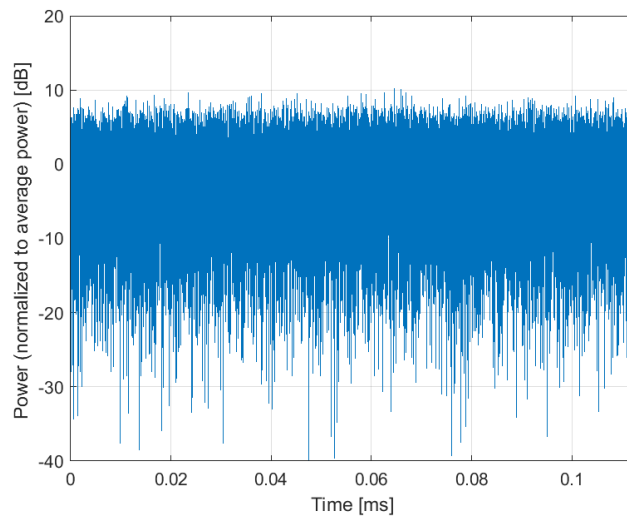
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS8, 99pc duty cycle)**

Group: WLAN
UID: 11020-AAB

PAR: ¹ **8.27 dB**
MIF: ² **-34.15 dB**

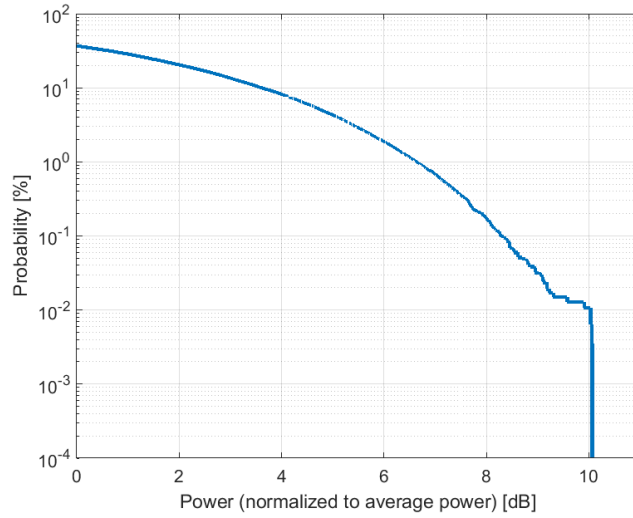
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

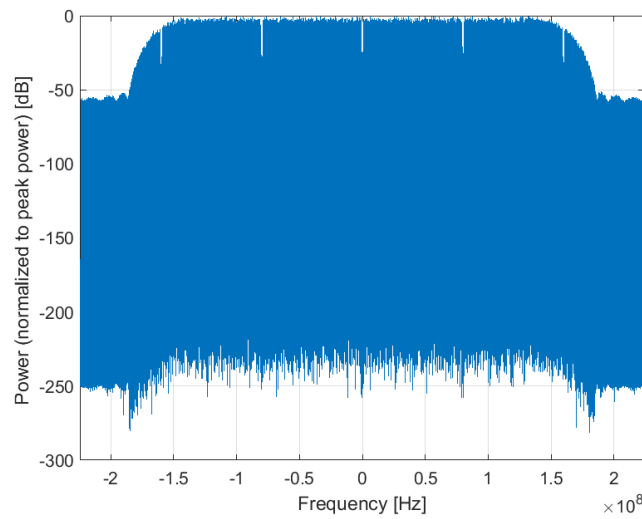
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

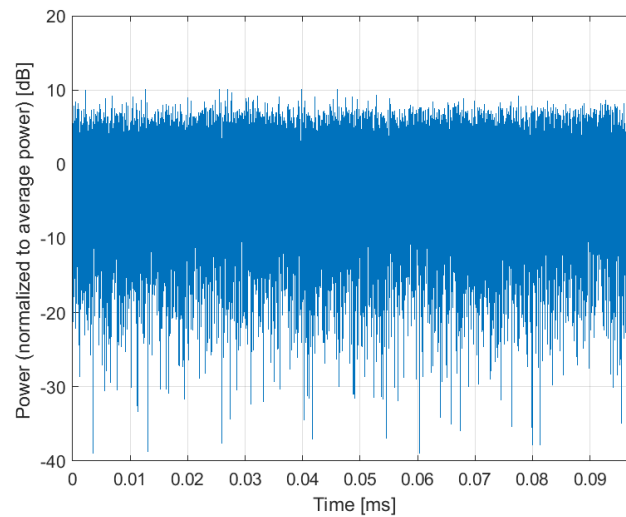
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS9, 99pc duty cycle)**

Group: WLAN
UID: 11021-AAB

PAR: ¹ **8.46 dB**
MIF: ² **-34.43 dB**

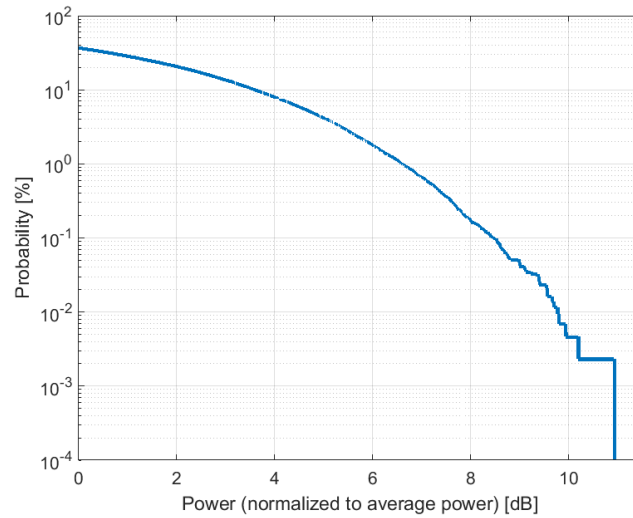
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

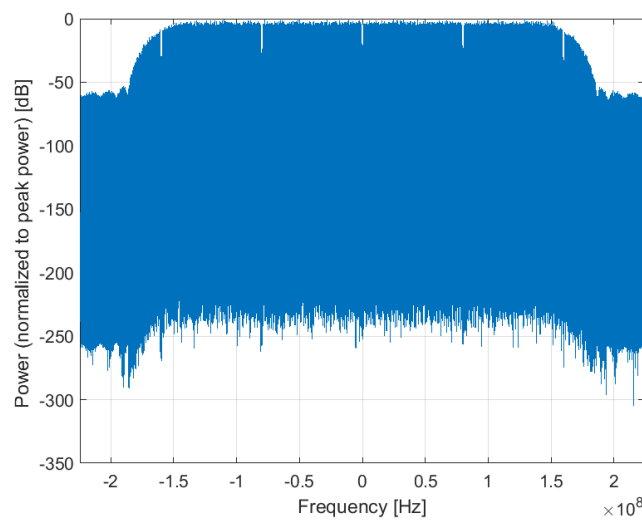
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

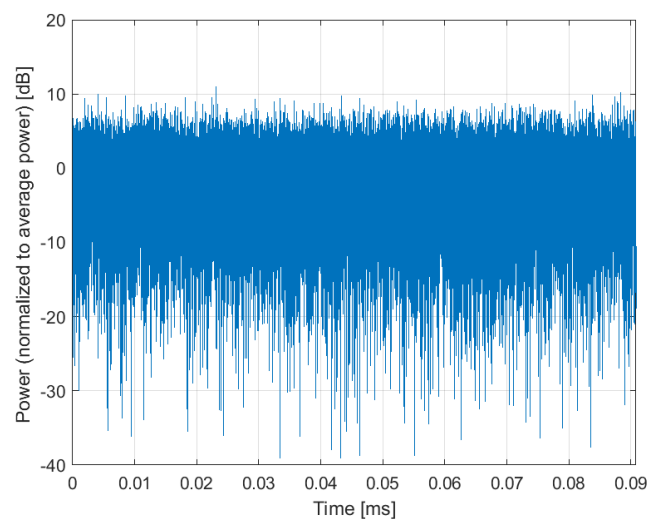
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS10, 99pc duty cycle)**

Group: WLAN
UID: 11022-AAB

PAR: ¹ **8.36 dB**
MIF: ² **-35.51 dB**

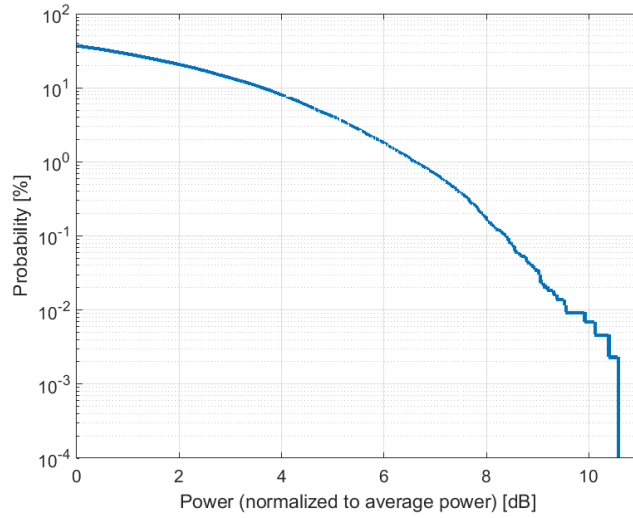
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

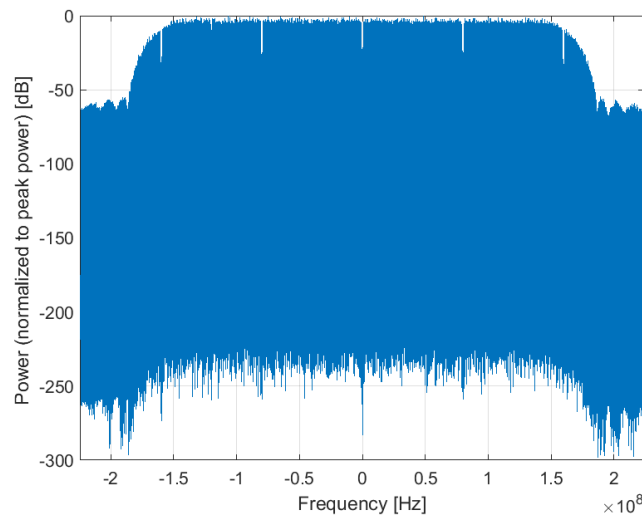
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

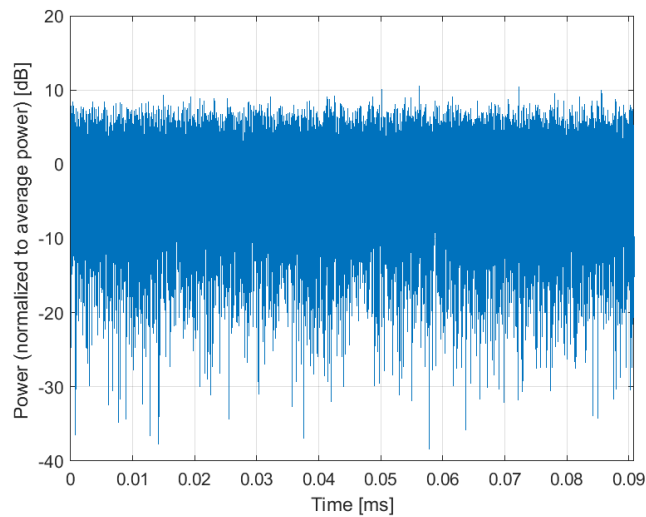
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS11, 99pc duty cycle)**

Group: WLAN
UID: 11023-AAB

PAR: ¹ **8.09 dB**
MIF: ² **-43.91 dB**

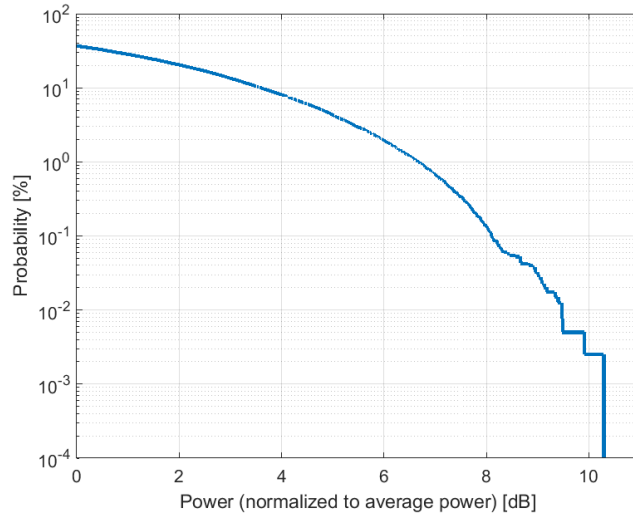
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 1024-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

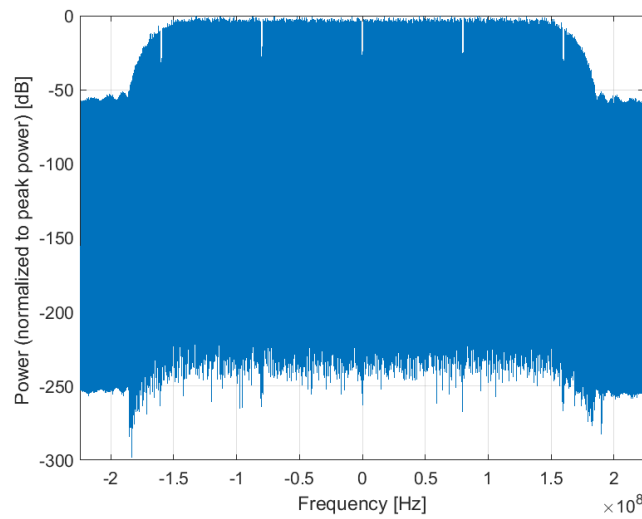
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

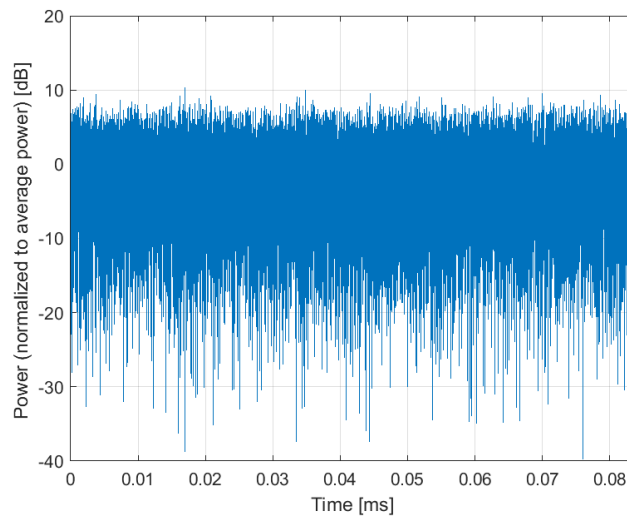
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS12, 99pc duty cycle)**

Group: WLAN
UID: 11024-AAB

PAR: ¹ **8.42 dB**
MIF: ² **-44.27 dB**

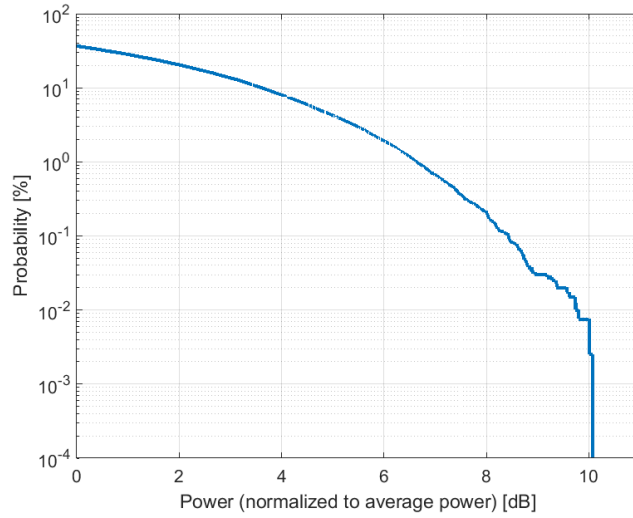
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 4096-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

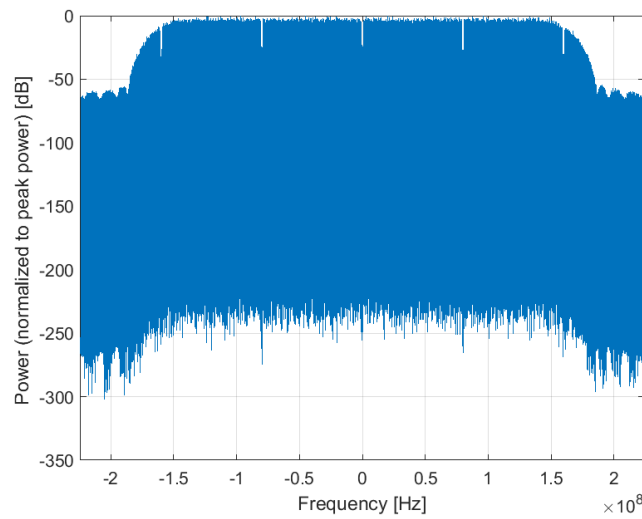
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

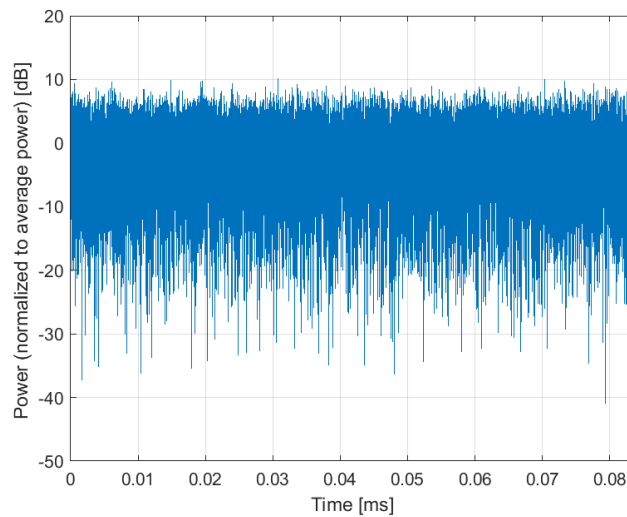
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS13, 99pc duty cycle)**

Group: WLAN
UID: 11025-AAB

PAR: ¹ **8.37 dB**
MIF: ² **-38.58 dB**

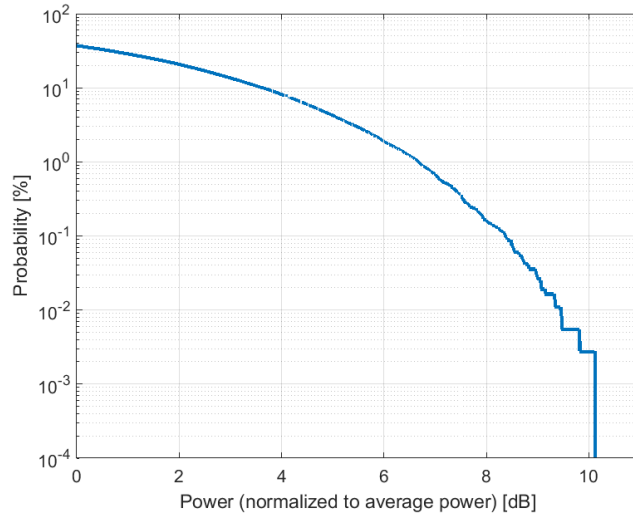
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 4096-QAM
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

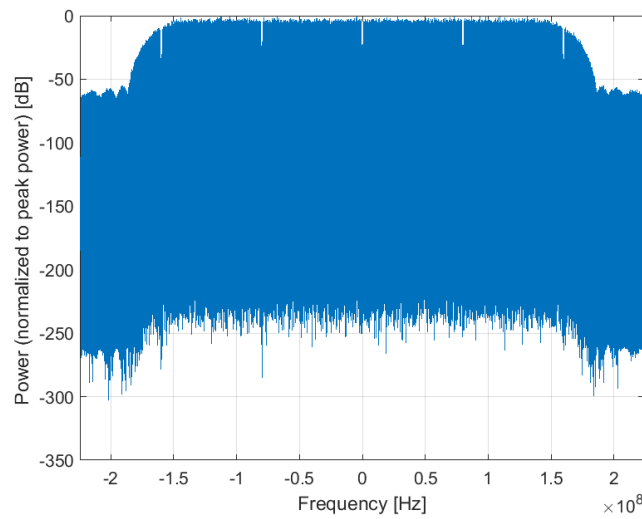
Bandwidth: 320.0 MHz
Integration Time: 0.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

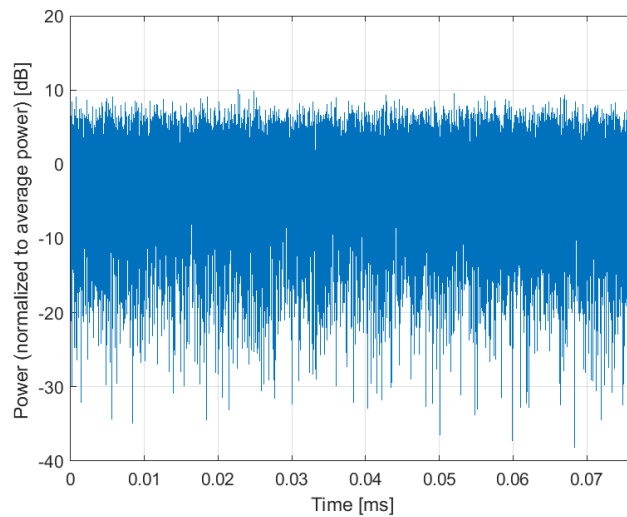
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **IEEE 802.11be (320MHz, MCS0, 99pc duty cycle)**

Group: WLAN
UID: 11026-AAB

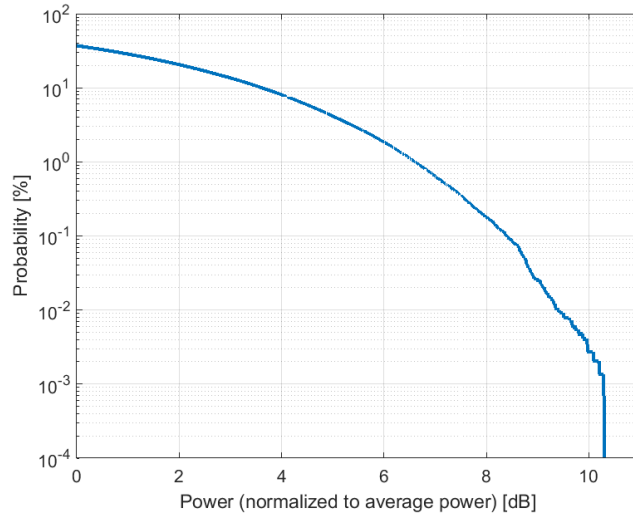
PAR: ¹ **8.39 dB**
MIF: ² **-28.73 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: WLAN 5GHz (4915.0 - 5825.0 MHz)
U-NII-1, U-NII-2A (5170 - 5330 MHz)
U-NII-2C Standalone (5490 - 5710 MHz)
U-NII-2C <5.65 GHz (5490 - 5650 MHz)
U-NII-3 Standalone (5735 - 5835 MHz)
U-NII-2C, U-NII-3 (5650 - 5835 MHz)
U-NII-5 (5925 - 6425 MHz)
U-NII-6 (6425 - 6525 MHz)
U-NII-7 (6525 - 6875 MHz)
U-NII-8 (6875 - 7125 MHz)
U-NII-4 (5825 - 5925 MHz)
Validation band (0.0 - 6000.0 MHz)

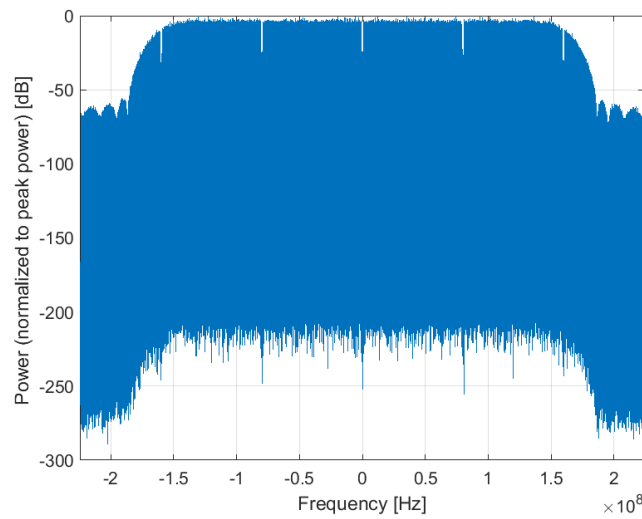
Detailed Specification: Bandwidth: 320 MHz
Duty Cycle: 99% Duty Cycle
Number of Spatial Streams: 1

Bandwidth: 320.0 MHz
Integration Time: 0.6 ms

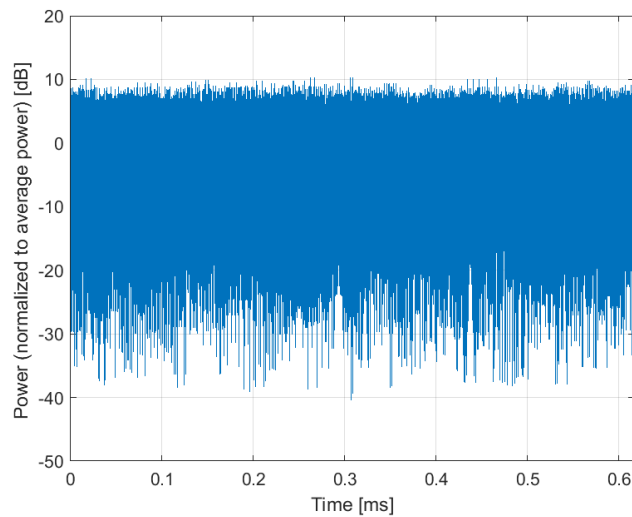
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 20ms, 10ms)**

Group: MRI
UID: 11027-AAA

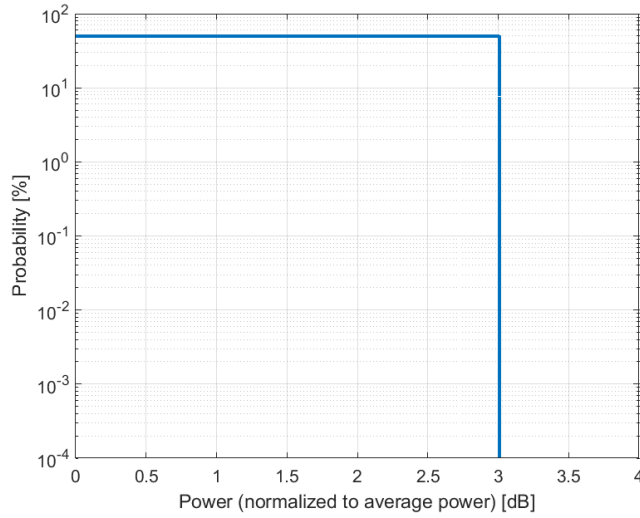
PAR: ¹ **3.01 dB**
MIF: ² **-4.97 dB**

Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

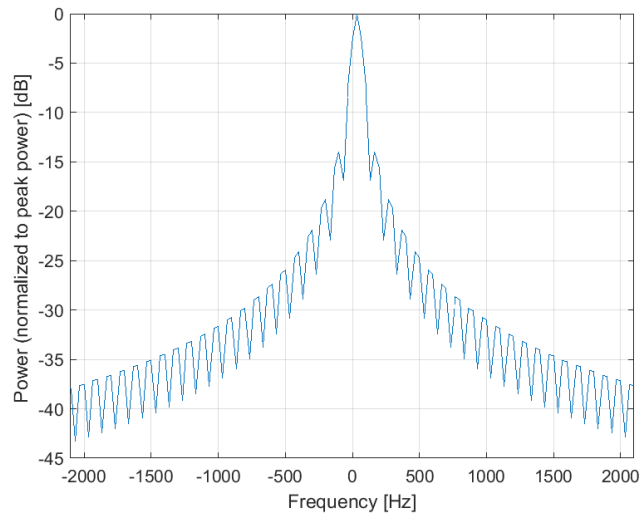
Detailed Specification: Pulse Shape: Square
Repetition Rate: 50 Hz
Duty Cycle: 50 %

Bandwidth: 0.0 MHz
Integration Time: 20.0 ms

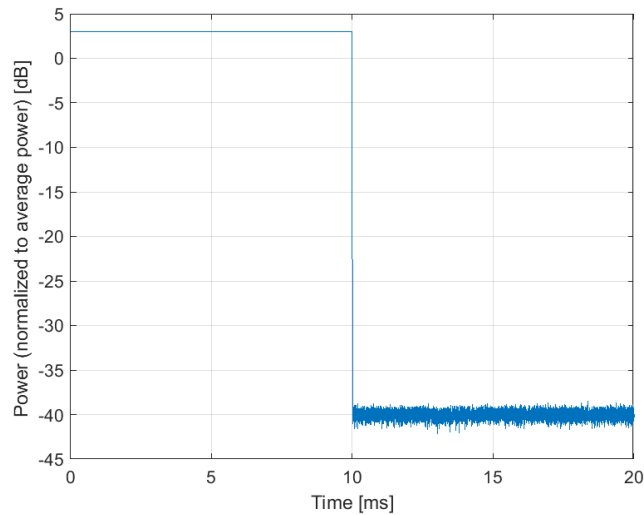
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **Pulse Waveform (Square, 50ms, 40ms)**

Group: MRI
UID: 11028-AAA

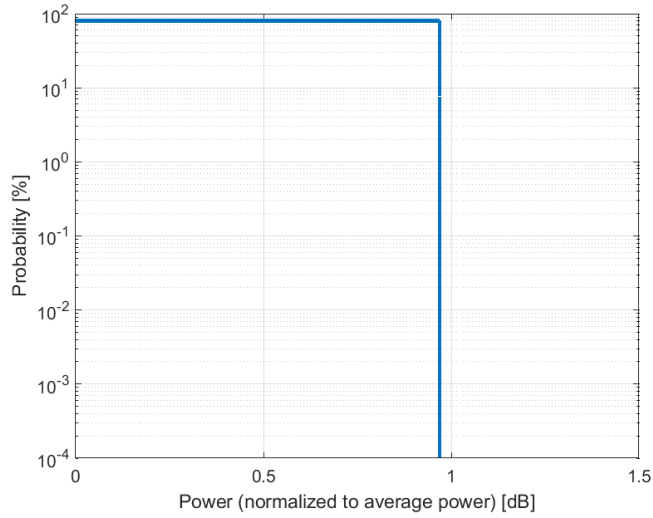
PAR: ¹ **0.97 dB**
MIF: ² **-7.17 dB**

Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0 - 69.0 MHz)
MRI 3T (123.0 - 133.0 MHz)
Validation band (0.0 - 6000.0 MHz)

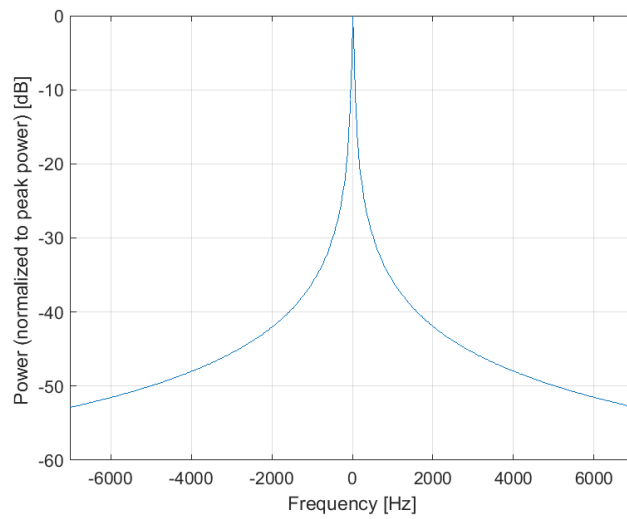
Detailed Specification: Pulse Shape: Square
Repetition Rate: 20 Hz
Duty Cycle: 80 %

Bandwidth: 0.0 MHz
Integration Time: 50.0 ms

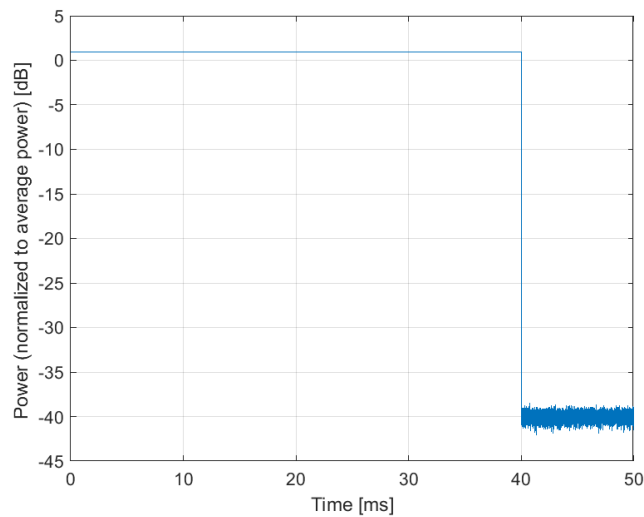
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain