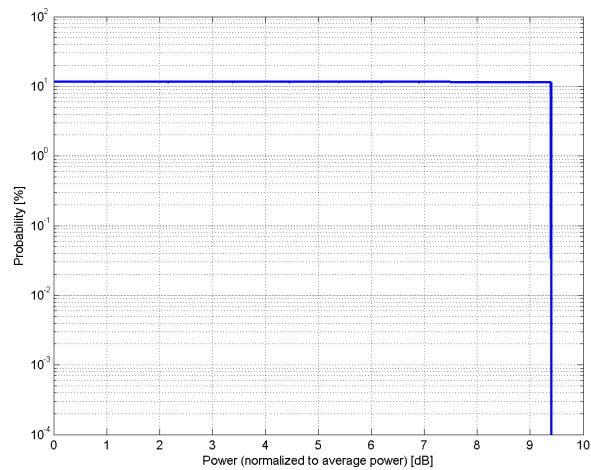


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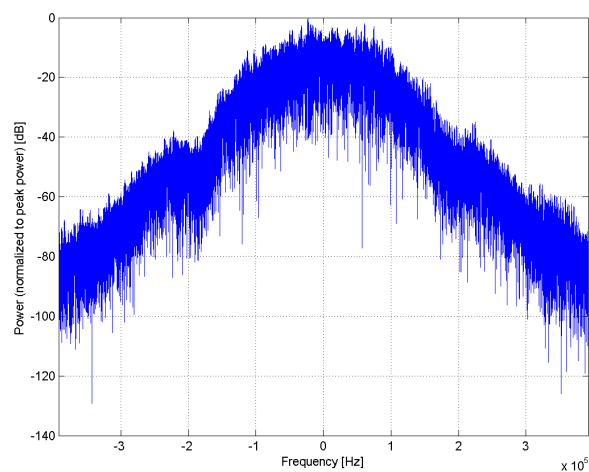
Name:	GSM-FDD (TDMA, GMSK)
Group:	GSM
UID:	10021-DAA
PAR: ¹	9.39 dB
MIF: ²	3.63 dB
Standard Reference:	ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04
Category:	Periodic pulsed modulation
Modulation:	GMSK
Frequency Band:	GSM 450 (450.4-457.6 MHz, 20016) GSM 480 (478.8-486.0 MHz, 20017) GSM 710 (698.0-716.0 MHz, 20018) GSM 750 (747.0-763.0 MHz, 20019) GSM 850 (824.0-849.0 MHz, 20021) P-GSM 900 (890.0-915.0 MHz, 20022) E-GSM 900 (880.0-915.0 MHz, 20023) R-GSM 900 (876.0-915.0 MHz, 20024) DCS 1800 (1710.0-1785.0 MHz, 20026) PCS 1900 (1850.0-1910.0 MHz, 20027)
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:	0.4 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)"

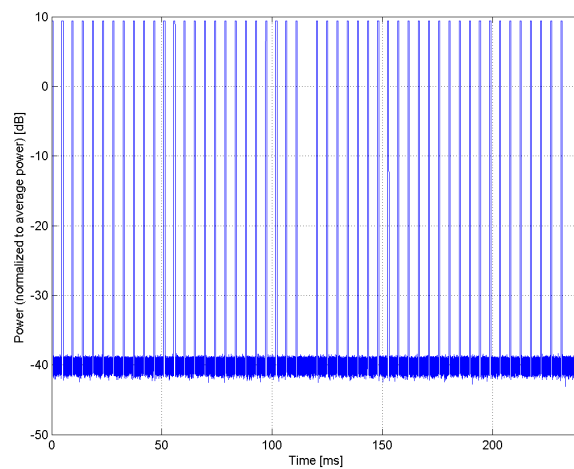
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

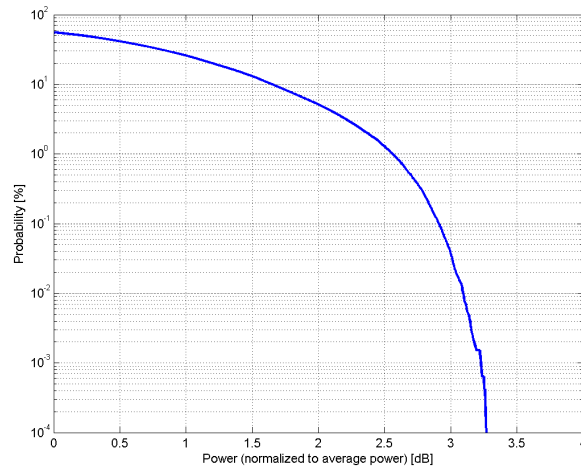


Time Domain

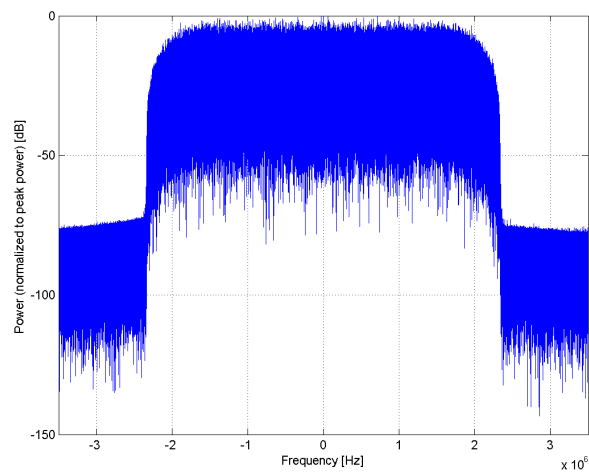
Name:	UMTS-FDD (WCDMA)
Group:	WCDMA
UID:	10011-CAA
PAR: ¹	2.91 dB
MIF: ²	-27.23 dB
Standard Reference:	3GPP TS 25.141 Annex A FCC OET KDB 941225 D01 SAR test for 3G devices v02
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, UTRA/FDD (1920.0-1980.0 MHz, 20000) Band 2, UTRA/FDD (1850.0-1910.0 MHz, 20001) Band 3, UTRA/FDD (1710.0-1785.0 MHz, 20002) Band 4, UTRA/FDD (1710.0-1755.0 MHz, 20003) Band 5, UTRA/FDD (824.0-849.0 MHz, 20004) Band 6, UTRA/FDD (830.0-840.0 MHz, 20005) Band 7, UTRA/FDD (2500.0-2570.0 MHz, 20006) Band 8, UTRA/FDD (880.0-915.0 MHz, 20007) Band 9, UTRA/FDD (1749.9-1784.9 MHz, 20008) Band 10, UTRA/FDD (1710.0-1770.0 MHz, 20009) Band 11, UTRA/FDD (1427.9-1452.9 MHz, 20010) Band 12, UTRA/FDD (698.0-716.0 MHz, 20011) Band 13, UTRA/FDD (777.0-787.0 MHz, 20012) Band 14, UTRA/FDD (788.0-798.0 MHz, 20013) Band 19, UTRA/FDD (830.0-845.0 MHz, 20130) Band 20, UTRA/FDD (832.0-862.0 MHz, 20131) Band 21, UTRA/FDD (1447.9-1462.9 MHz, 20132)
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)"

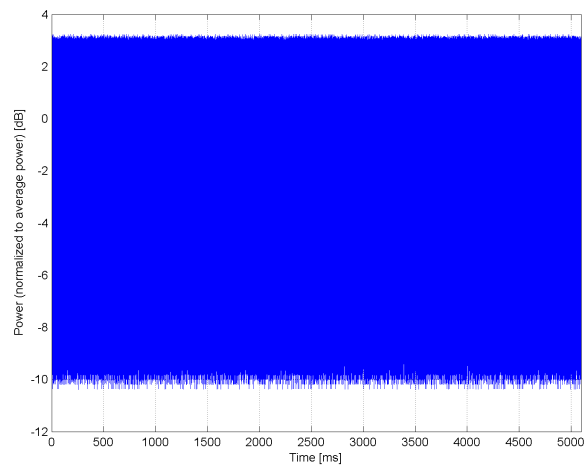
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

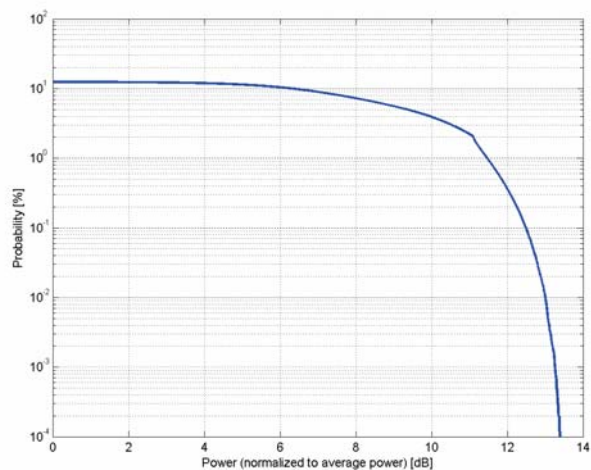


Time Domain

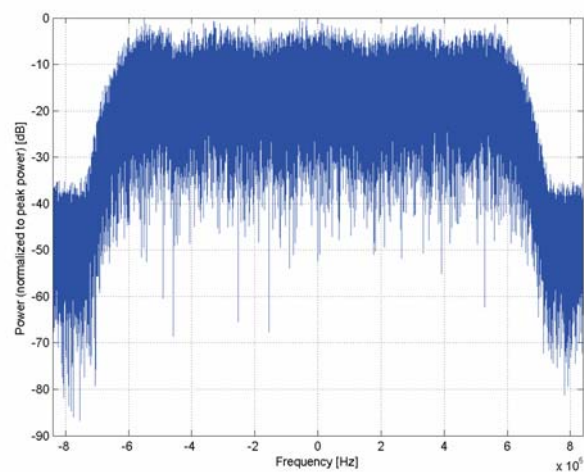
Name:	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.
Group:	CDMA2000
UID:	10295-AAA
PAR: ¹	12.49 dB
MIF: ²	3.26 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	64-ary orthogonal
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) 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)
Detailed Specification:	Radio Configuration 1 (RC1) Service Option 3 (SO3) Speech codec: 8k EVRC (Enhanced Voice Rate Codec)
Bandwidth:	1/8th frame rate 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)"

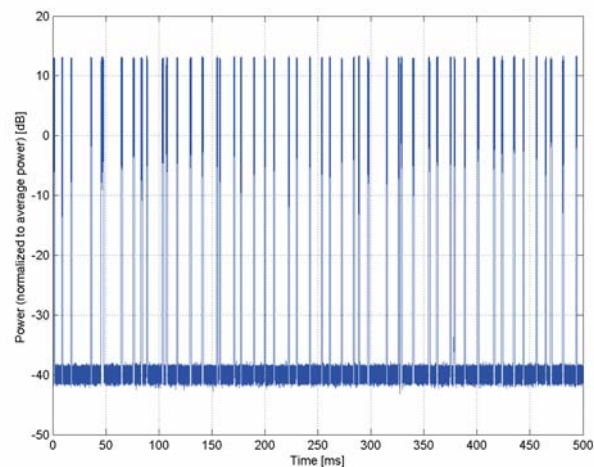
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

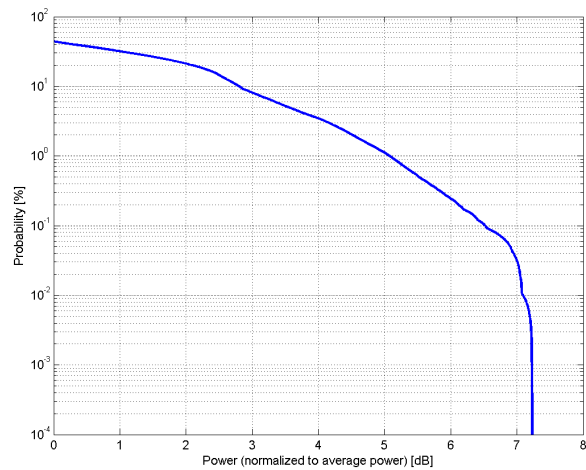


Time Domain

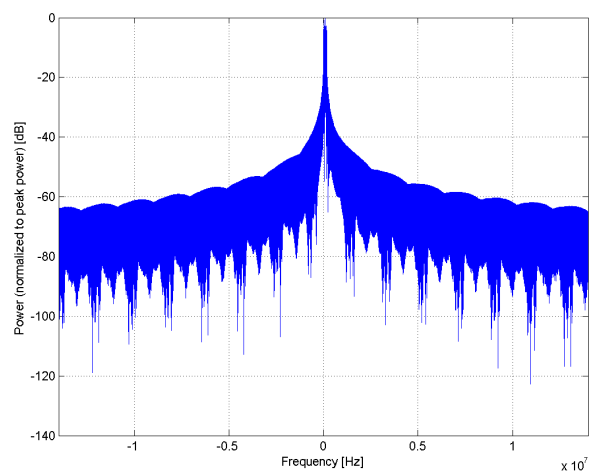
Name:	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)
Group:	LTE-FDD
UID:	10170-CAB
PAR: ¹	6.52 dB
MIF: ²	-9.76 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	
Frequency Band:	Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133) Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134) Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135) Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136) Band 7, E-UTRA/FDD (2500.0-2570.0 MHz, 20139) Band 9, E-UTRA/FDD (1749.9-1784.9 MHz, 20141) Band 10, E-UTRA/FDD (1710.0-1770.0 MHz, 20142) Band 20, E-UTRA/FDD (832.0-862.0 MHz, 20159) Band 22, E-UTRA/FDD (3410.0-3490.0 MHz, 20190) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) Band 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166) Band 28 E-UTRA/FDD (703.0-748.0 MHz, 20213)
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)"

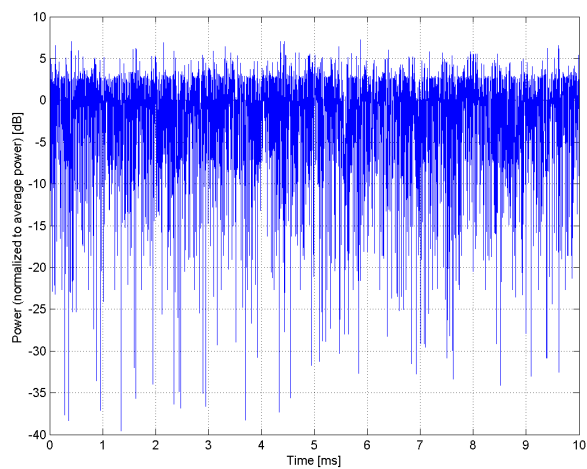
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Group: LTE-FDD
 UID: 10176-CAB

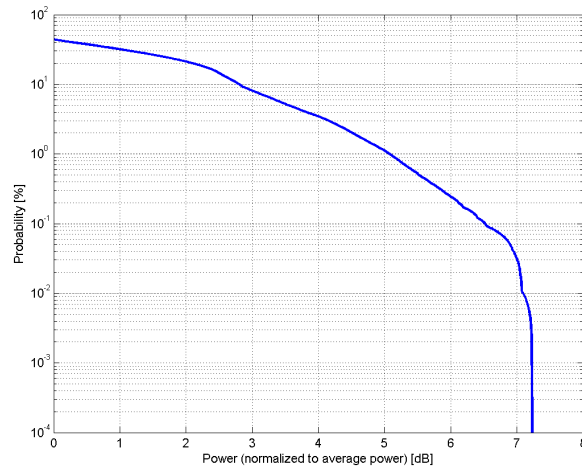
PAR: ¹ **6.52 dB**
 MIF: ² **-9.76 dB**

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:

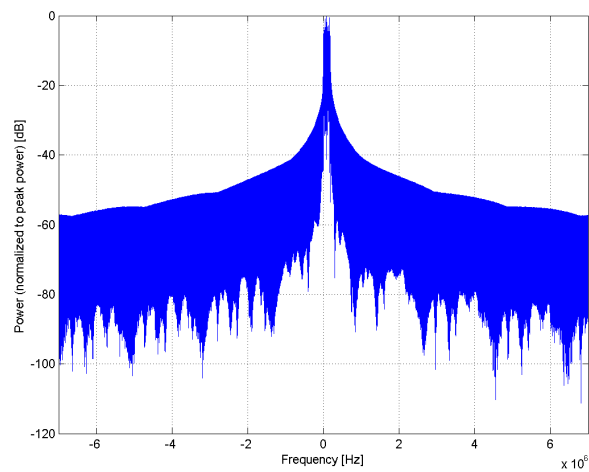
Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)
 Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)
 Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)
 Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)
 Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)
 Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)
 Band 7, E-UTRA/FDD (2500.0-2570.0 MHz, 20139)
 Band 8, E-UTRA/FDD (880.0-915.0 MHz, 20140)
 Band 9, E-UTRA/FDD (1749.9-1784.9 MHz, 20141)
 Band 10, E-UTRA/FDD (1710.0-1770.0 MHz, 20142)
 Band 11, E-UTRA/FDD (1427.9-1447.9 MHz, 20209)
 Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210)
 Band 13, E-UTRA/FDD (777.0-787.0 MHz, 20145)
 Band 14, E-UTRA/FDD (788.0-798.0 MHz, 20146)
 Band 17, E-UTRA/FDD (704.0-716.0 MHz, 20147)
 Band 18, E-UTRA/FDD (815.0-830.0 MHz, 20157)
 Band 19, E-UTRA/FDD (830.0-845.0 MHz, 20158)
 Band 20, E-UTRA/FDD (832.0-862.0 MHz, 20159)
 Band 21, E-UTRA/FDD (1447.9-1462.9 MHz, 20160)
 Band 22, E-UTRA/FDD (3410.0-3490.0 MHz, 20190)
 Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164)
 Band 24, E-UTRA/FDD (1626.5-1660.5 MHz, 20165)
 Band 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166)
 Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211)
 Band 27 E-UTRA/FDD (807.0-824.0 MHz, 20212)
 Band 28 E-UTRA/FDD (703.0-748.0 MHz, 20213)

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

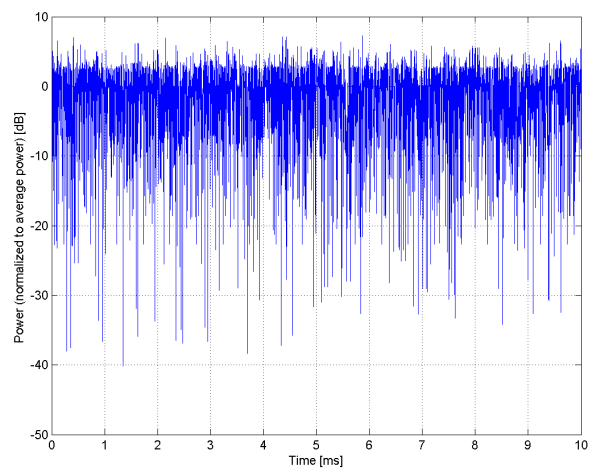
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

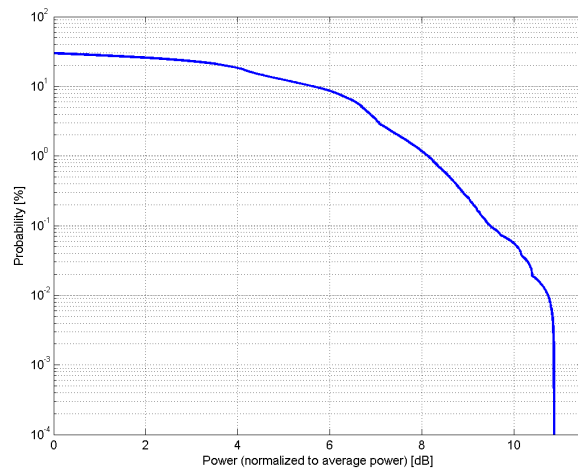


Time Domain

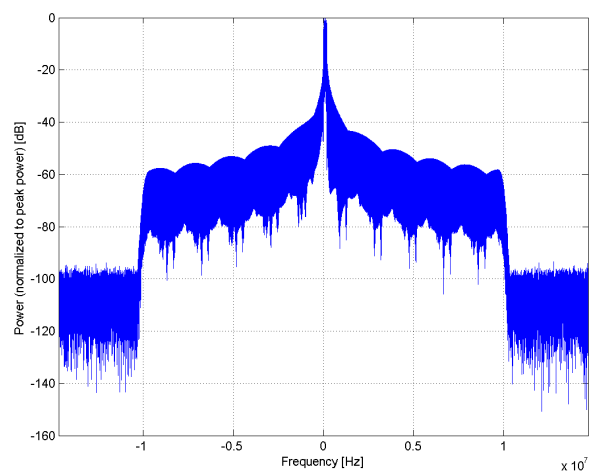
Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10173-CAB
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, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) Band 37, E-UTRA/TDD (1910.0-1930.0 MHz, 20152) Band 38, E-UTRA/TDD (2570.0-2620.0 MHz, 20153) Band 39, E-UTRA/TDD (1880.0-1920.0 MHz, 20154) Band 40, E-UTRA/TDD (2300.0-2400.0 MHz, 20155) Band 41, E-UTRA/TDD (2496.0-2690.0 MHz, 20167) Band 42, E-UTRA/TDD (3400.0-3600.0 MHz, 20168) Band 43, E-UTRA/TDD (3600.0-3800.0 MHz, 20169) Band 44, E-UTRA/TDD (703.0-803.0 MHz, 20214)
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

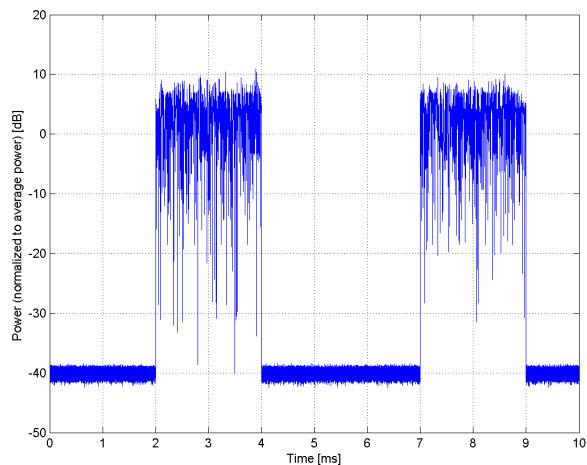
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain