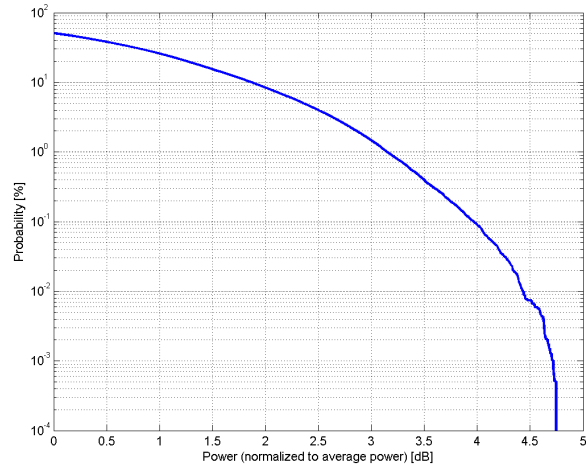


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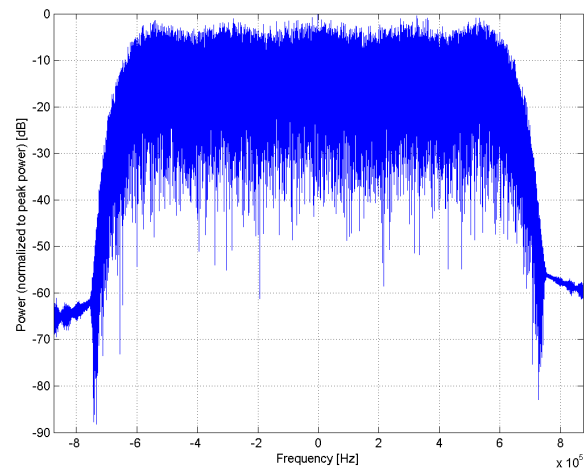
Name:	<b>CDMA2000 (1xRTT, RC3)</b>
Group:	CDMA2000
UID:	10081-CAA
PAR: <sup>1</sup>	<b>3.97 dB</b>
MIF: <sup>2</sup>	<b>-19.71 dB</b>
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	Band Class 0 (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 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 9.6kpbs, Data: PN9fix
Bandwidth:	1.2 MHz
Integration Time:	80.0 ms

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

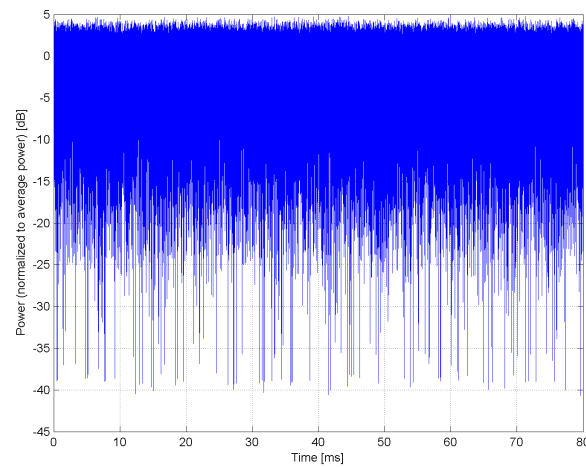
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



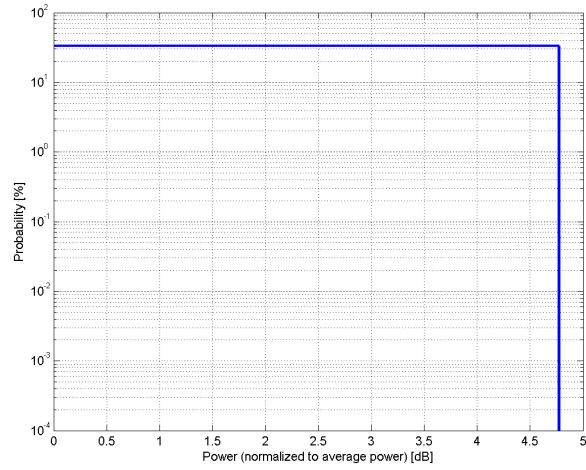
**Time Domain**

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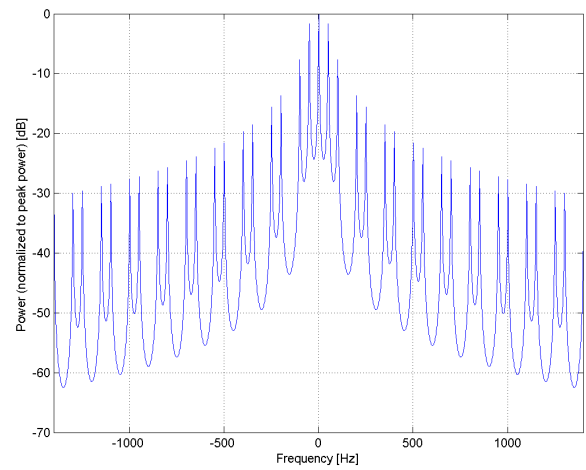
Name:	<b>IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)</b>
Group:	AMPS
UID:	10082-CAA
PAR: <sup>1</sup>	<b>4.77 dB</b>
MIF: <sup>2</sup>	<b>-2.91 dB</b>
Standard Reference:	TIA/EIA-136-110-B
Category:	
Modulation:	Pi/4-DQPSK
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band a2, UTRA/TDD (2010.0-2025.0 MHz, 20056) Band f, UTRA/TDD (1880.0-1920.0 MHz, 20062)
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

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

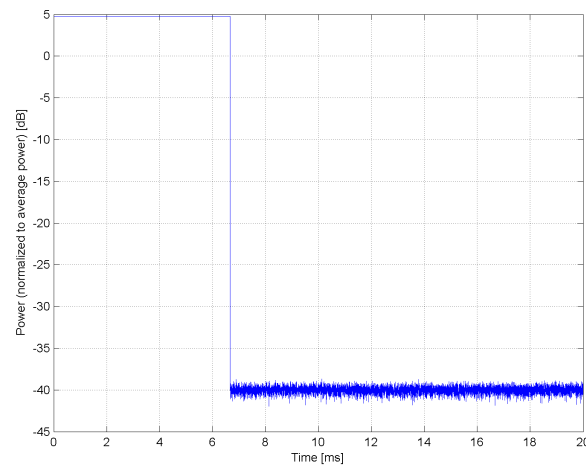
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



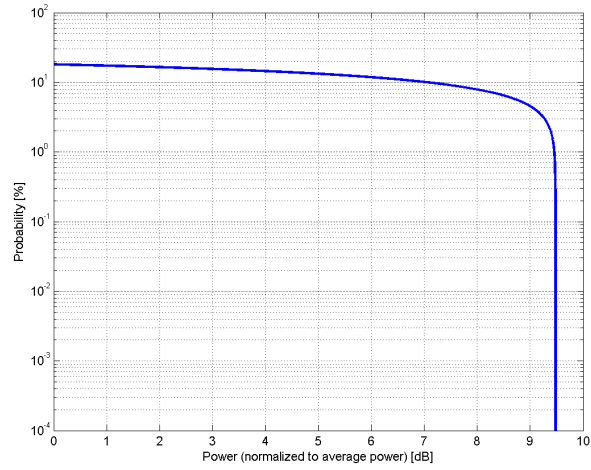
### Time Domain

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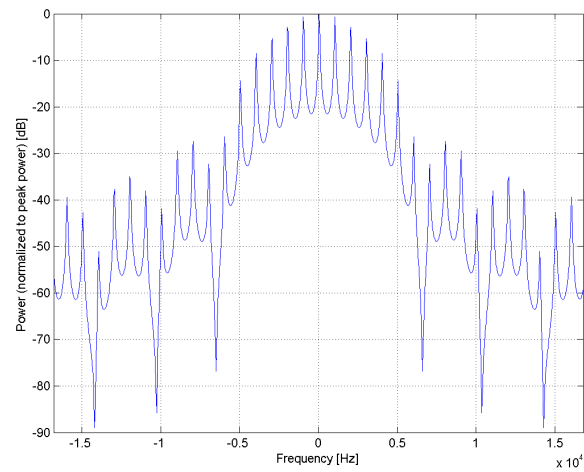
Name:	<b>FSE MRI sequence (pi Sinc, 10ms, 2.5 ms)</b>
Group:	MRI
UID:	10084-CAA
PAR: <sup>1</sup>	<b>9.48 dB</b>
MIF: <sup>2</sup>	<b>-99.00 dB</b>
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0-69.0 MHz, 20063) MRI 3T (123.0-133.0 MHz, 20064)
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:	1.0 ms

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

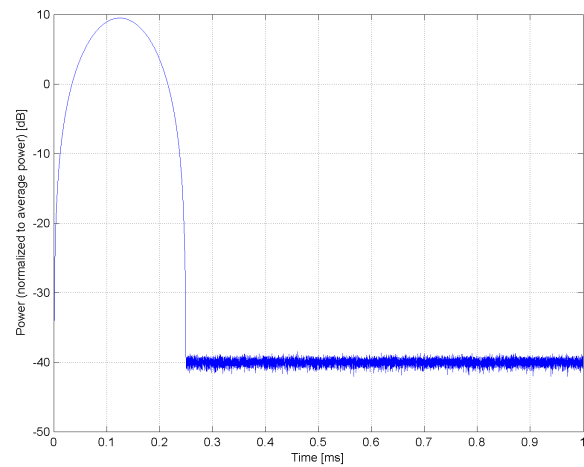
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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Name: **MRI (Square, 1ms, 0.4ms)**

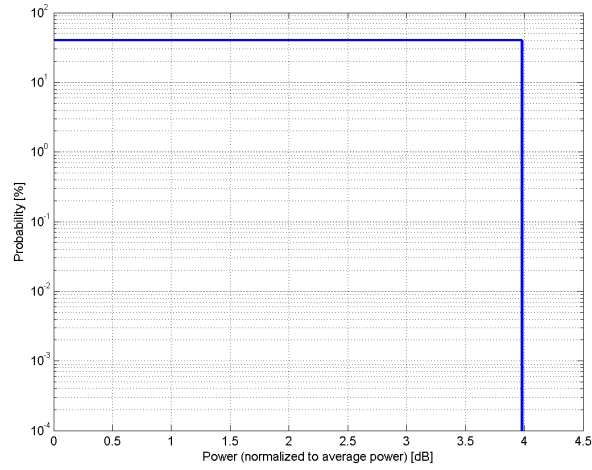
Group: MRI  
UID: 10089-CAA

PAR: <sup>1</sup> **3.98 dB**  
MIF: <sup>2</sup> **-99.00 dB**

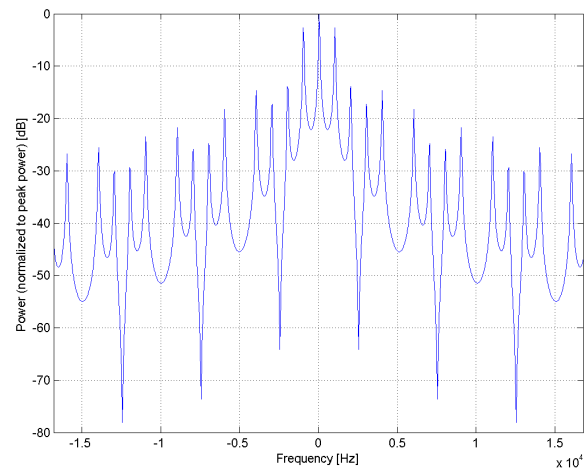
Standard Reference: SPEAG  
Category: Periodic pulsed modulation  
Modulation: AM  
Frequency Band: MRI 1.5T (59.0-69.0 MHz, 20063)  
MRI 3T (123.0-133.0 MHz, 20064)  
Detailed Specification: Custom Calibration Sequence  
Pulse Shape: rectangular  
Repetition Rate: 1 kHz  
Duty Cycle: 40 %  
Bandwidth: 0.0 MHz  
Integration Time: 1.0 ms

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

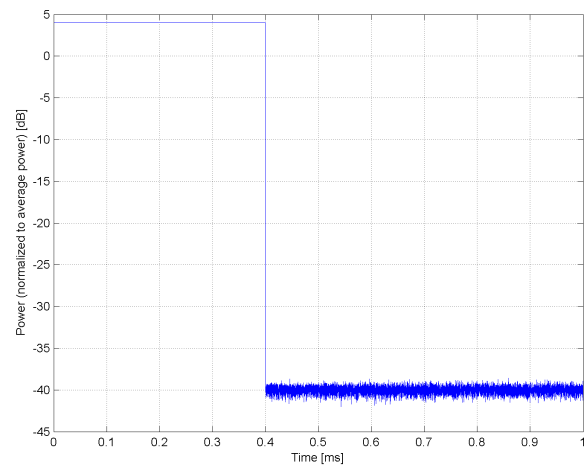
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

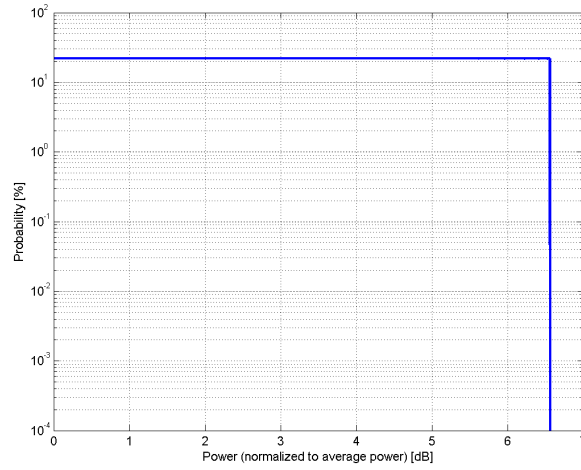


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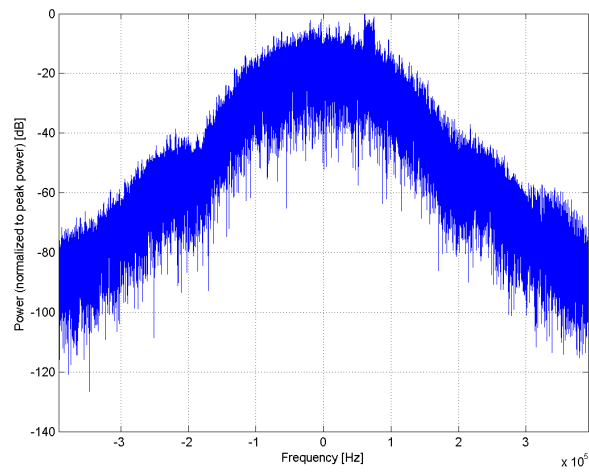
Name:	<b>GPRS-FDD (TDMA, GMSK, TN 0-4)</b>
Group:	GSM
UID:	10090-DAA
PAR: <sup>1</sup>	<b>6.56 dB</b>
MIF: <sup>2</sup>	<b>1.81 dB</b>
Standard Reference:	ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04
Category:	Periodic pulsed modulation
Modulation:	GMSK
Frequency Band:	GSM 450 (450.4-457.6 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 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:	0.4 MHz
Integration Time:	60.0 ms

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

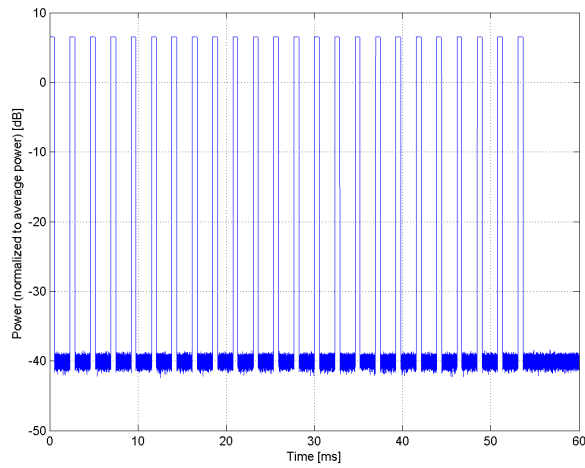
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



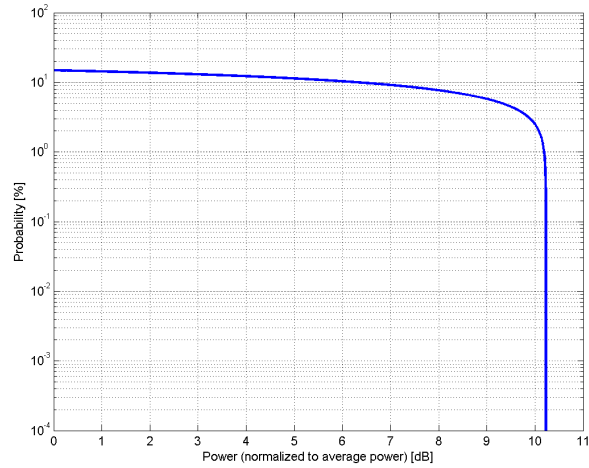
### Time Domain

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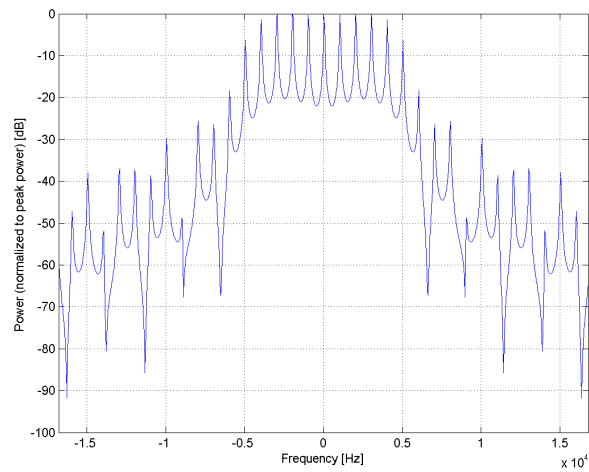
Name:	<b>MITS (2pi Sinc, 1ms, 0.4ms)</b>
Group:	MRI
UID:	10091-CAA
PAR: <sup>1</sup>	<b>10.22 dB</b>
MIF: <sup>2</sup>	<b>-99.00 dB</b>
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0-69.0 MHz, 20063) MRI 3T (123.0-133.0 MHz, 20064)
Detailed 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

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

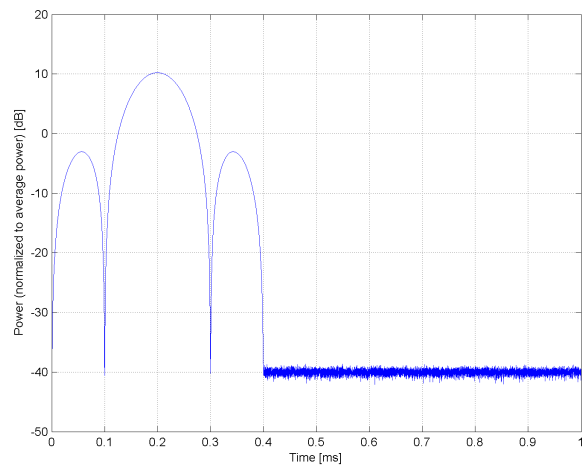
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



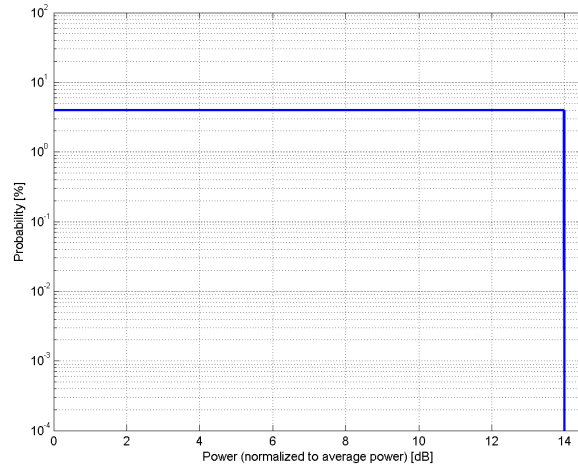
**Time Domain**

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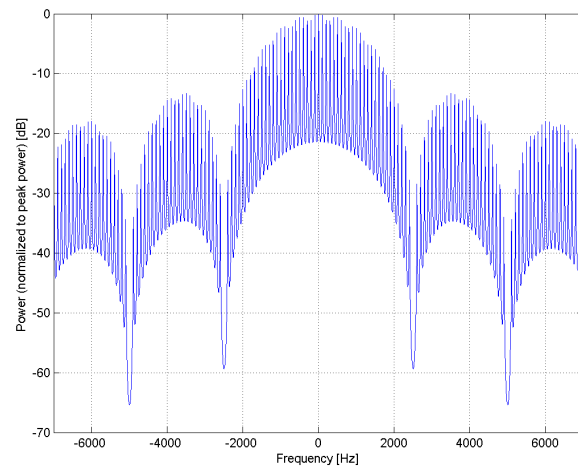
Name:	<b>MRI (Square, 10ms, 0.4ms)</b>
Group:	MRI
UID:	10093-CAA
PAR: <sup>1</sup>	<b>13.98 dB</b>
MIF: <sup>2</sup>	<b>-99.00 dB</b>
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0-69.0 MHz, 20063) MRI 3T (123.0-133.0 MHz, 20064)
Detailed 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

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

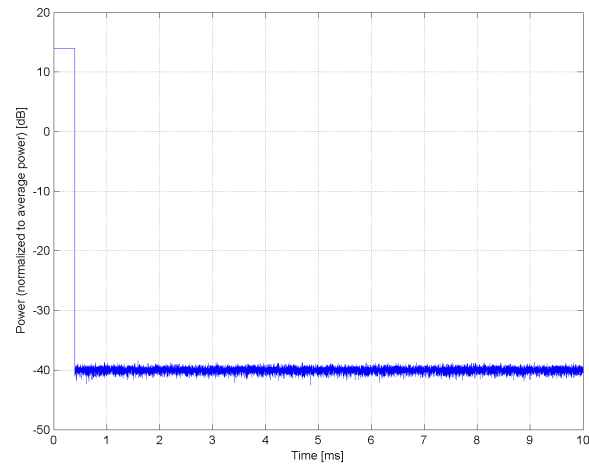
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



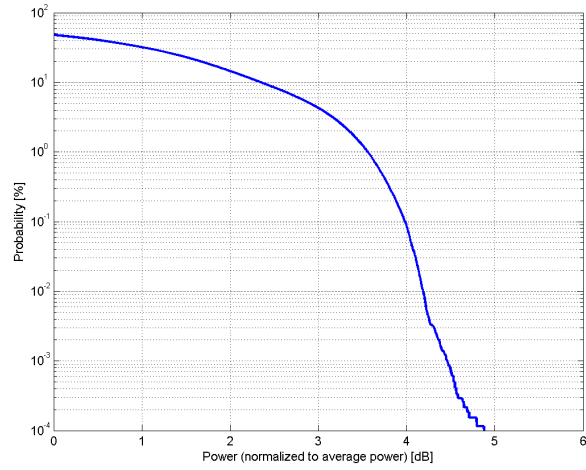
### Time Domain

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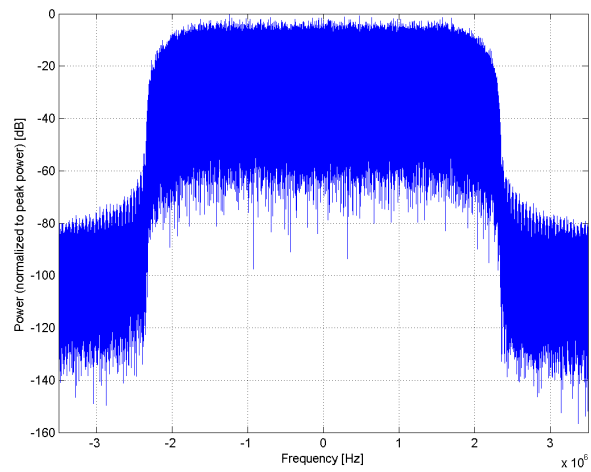
Name:	<b>UMTS-FDD (HSDPA)</b>
Group:	WCDMA
UID:	10097-CAA
PAR: <sup>1</sup>	<b>3.98 dB</b>
MIF: <sup>2</sup>	<b>-20.75 dB</b>
Standard Reference:	ETSI-3GPP TS 134.121 Rel. 5 FCC OET KDB 941225 D01 SAR test for 3G devices v02
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, 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:	CQI value: 2 Sub-test 2 Conditions: DPCCH gain factor (Beta <sub>c</sub> ) = 12/15 DPDCH gain factor (Beta <sub>d</sub> ): 15/15
Bandwidth:	5.0 MHz
Integration Time:	100.0 ms

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

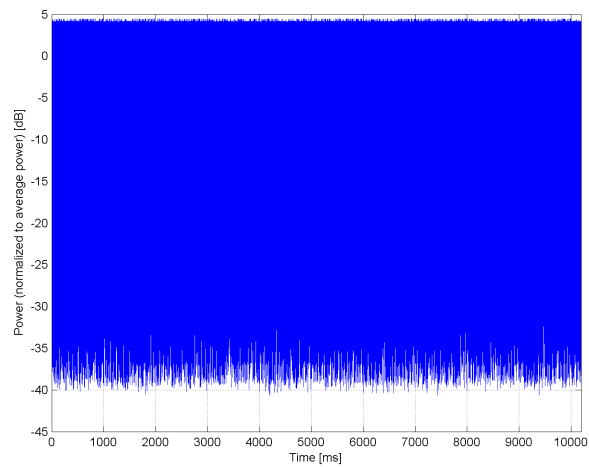
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

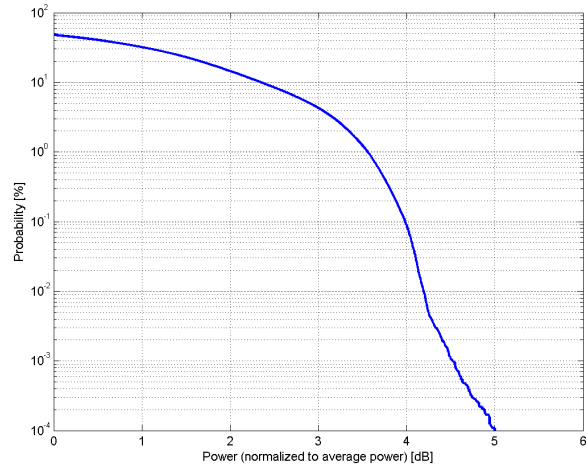


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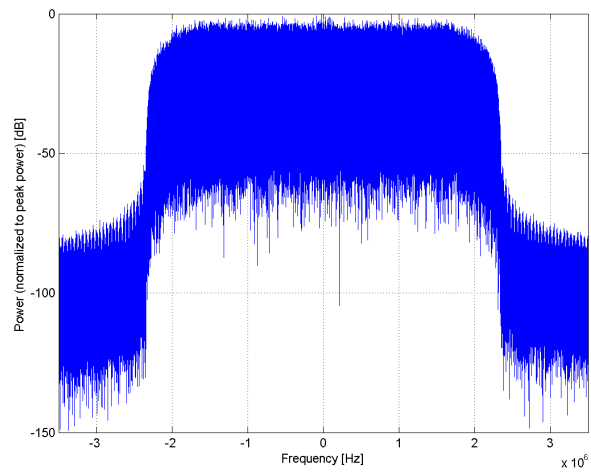
Name:	<b>UMTS-FDD (HSUPA, Subtest 2)</b>
Group:	WCDMA
UID:	10098-CAA
PAR: <sup>1</sup>	<b>3.98 dB</b>
MIF: <sup>2</sup>	<b>-20.75 dB</b>
Standard Reference:	3GPP Rel 5 TS34.121
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, UTRA/FDD (1920.0-1980.0 MHz, 20000) Band 2, UTRA/FDD (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:	12.2 kbps RMC, FRC H-Set 1 CQI value: 2 Sub-test 2 Conditions: DPCCH gain factor (Beta <sub>c</sub> ) = 12/15 DPDCH gain factor (Beta <sub>d</sub> ): 15/15
Bandwidth:	5.0 MHz
Integration Time:	100.0 ms

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

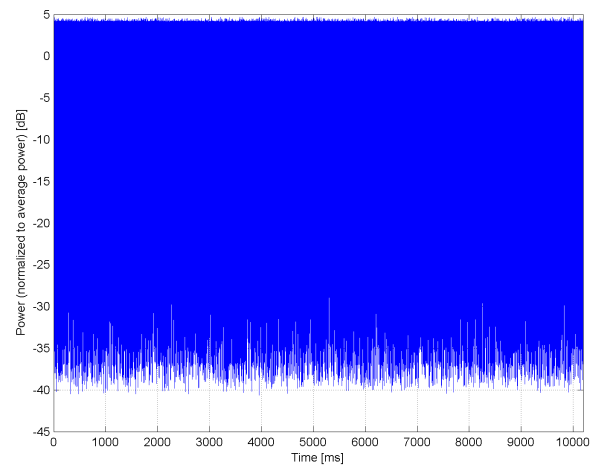
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



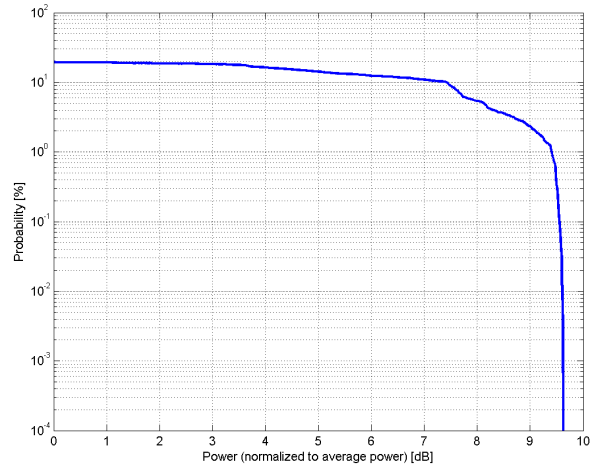
**Time Domain**

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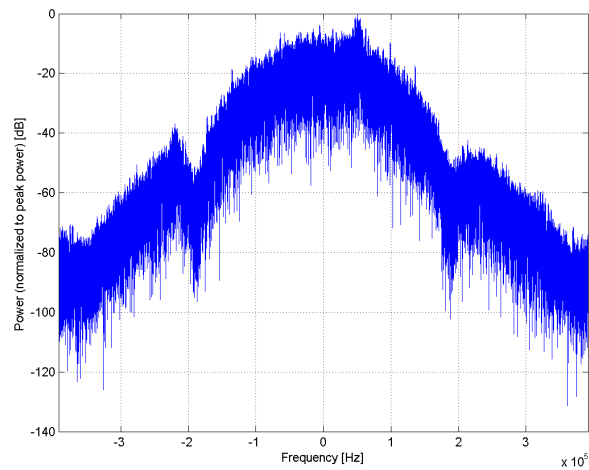
Name:	<b>EDGE-FDD (TDMA, 8PSK, TN 0-4)</b>
Group:	GSM
UID:	10099-DAA
PAR: <sup>1</sup>	<b>9.55 dB</b>
MIF: <sup>2</sup>	<b>1.88 dB</b>
Standard Reference:	ETSI TS 100 909 V8.9.0 (2005-01) FCC OET KDB 941225, D03 and D04
Category:	Periodic pulsed modulation
Modulation:	8PSK
Frequency Band:	GSM 450 (450.4-457.6 MHz, 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 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:	0.4 MHz
Integration Time:	60.0 ms

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

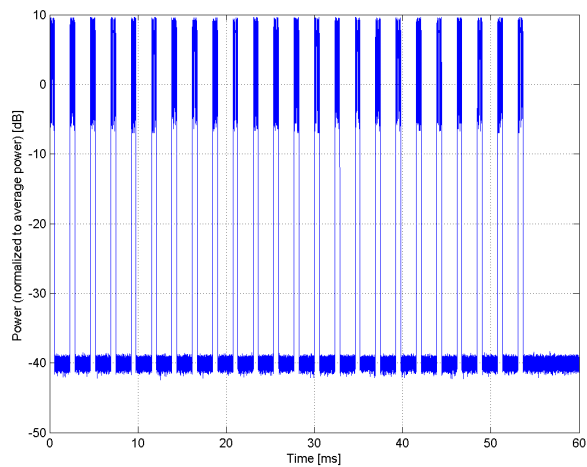
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



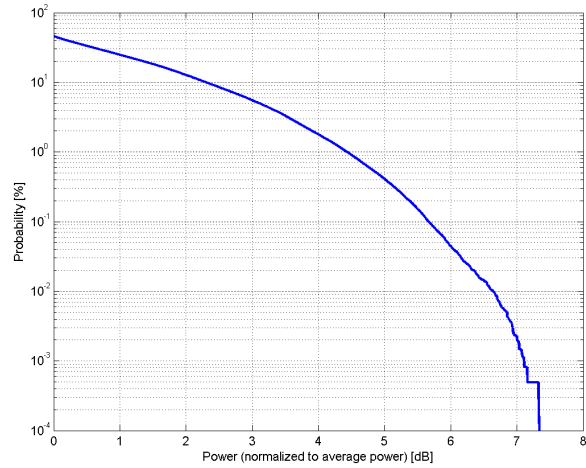
**Time Domain**

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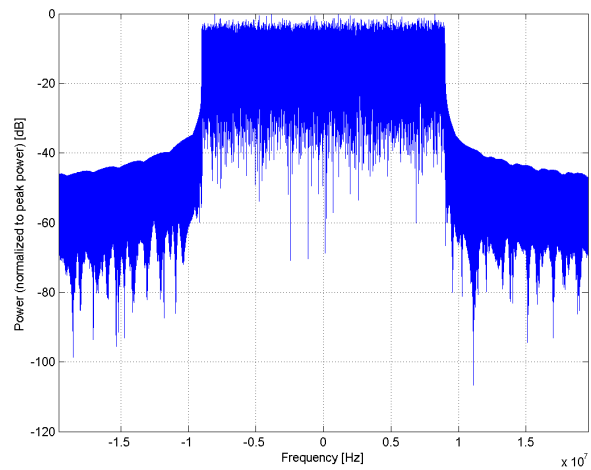
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 20 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10100-CAB
PAR: <sup>1</sup>	<b>5.67 dB</b>
MIF: <sup>2</sup>	<b>-23.48 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, 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: 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

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

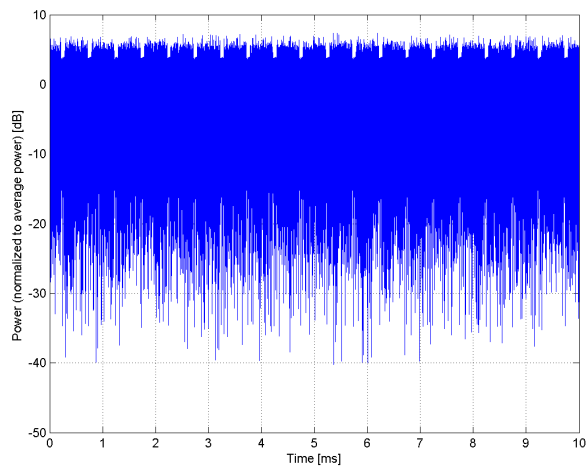
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



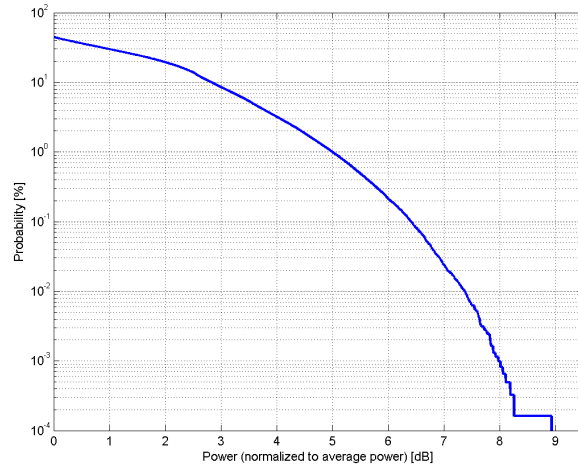
**Time Domain**

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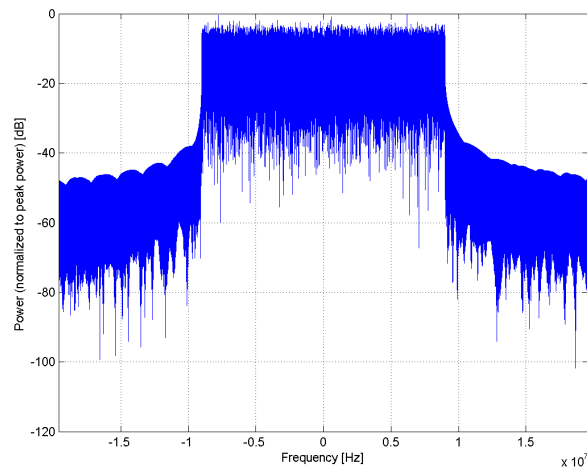
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 20 MHz, 16-QAM)</b>
Group:	LTE-FDD
UID:	10101-CAB
PAR: <sup>1</sup>	<b>6.42 dB</b>
MIF: <sup>2</sup>	<b>-17.86 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude 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 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: 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

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

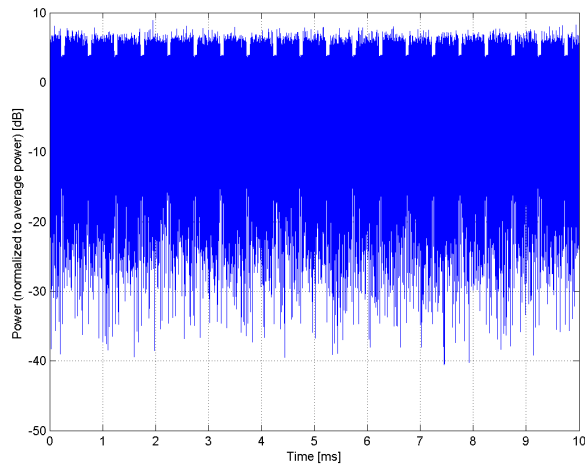
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

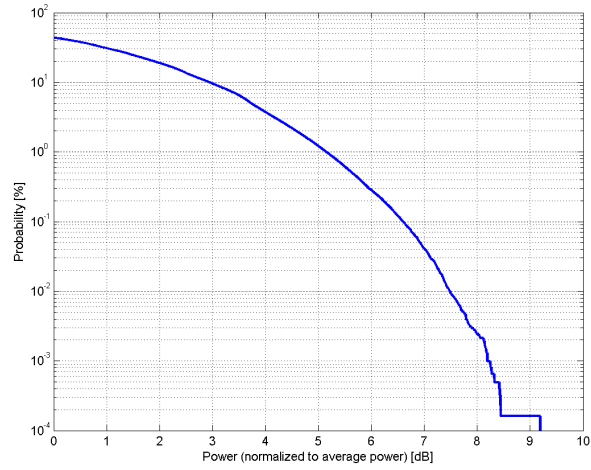


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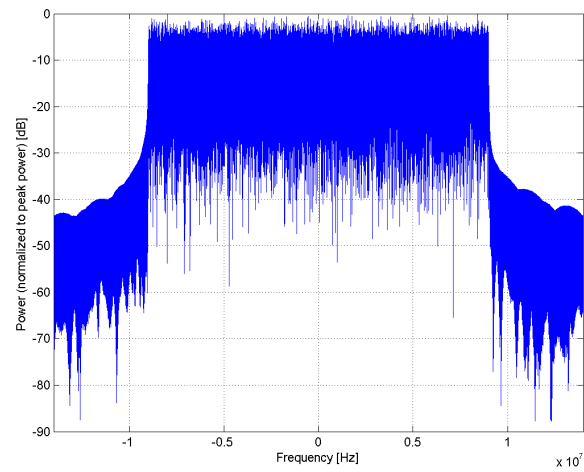
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 20 MHz, 64-QAM)</b>
Group:	LTE-FDD
UID:	10102-CAB
PAR: <sup>1</sup>	<b>6.60 dB</b>
MIF: <sup>2</sup>	<b>-17.05 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	64-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 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: 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

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

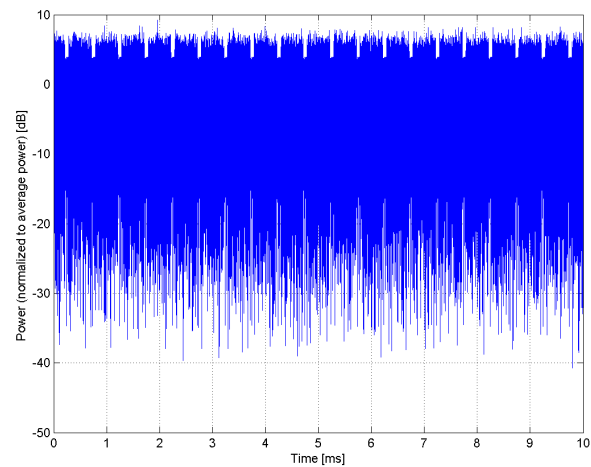
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



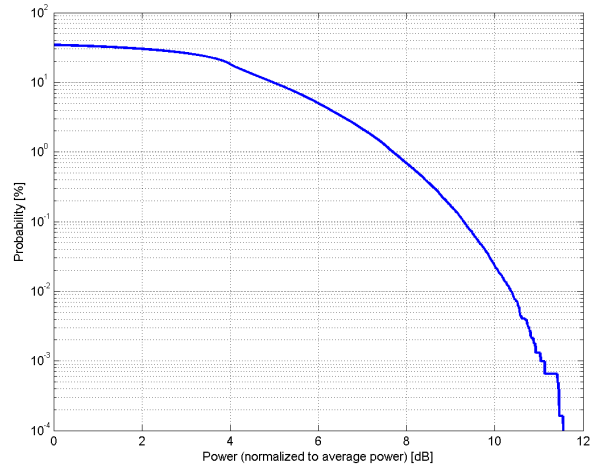
**Time Domain**

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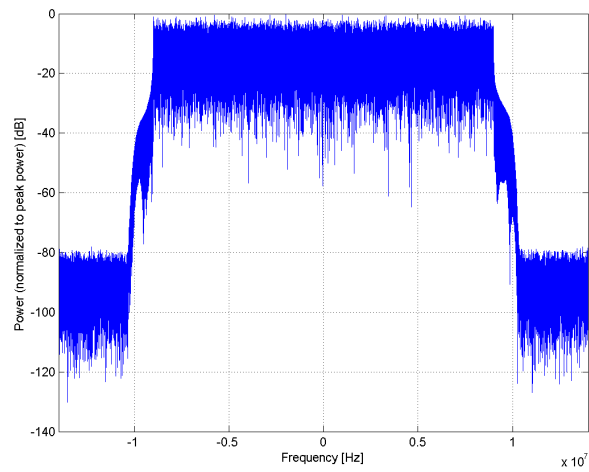
Name:	<b>LTE-TDD (SC-FDMA, 100 % RB, 20 MHz, QPSK)</b>
Group:	LTE-TDD
UID:	10103-CAB
PAR: <sup>1</sup>	<b>9.29 dB</b>
MIF: <sup>2</sup>	<b>-1.64 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33, 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: QPSK Allocated RB: 100 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

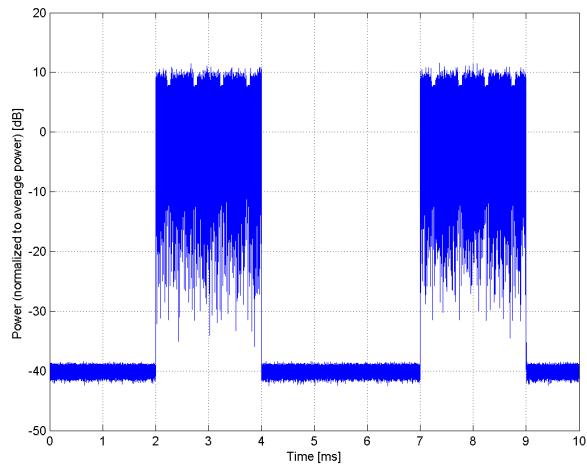
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



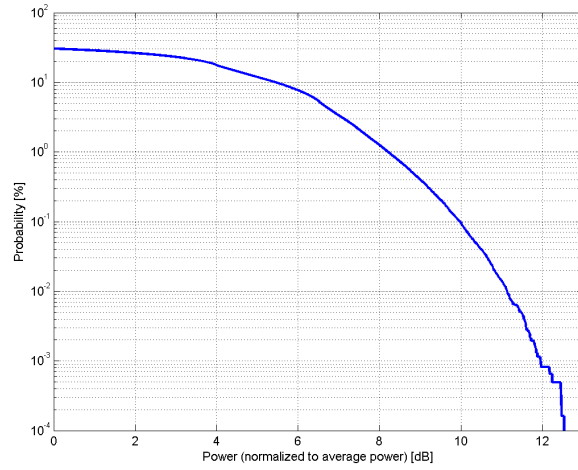
**Time Domain**

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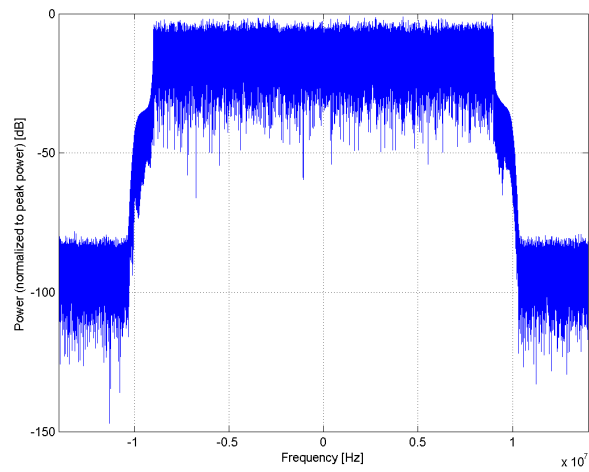
Name:	<b>LTE-TDD (SC-FDMA, 100 % RB, 20 MHz, 16-QAM)</b>
Group:	LTE-TDD
UID:	10104-CAB
PAR: <sup>1</sup>	<b>9.97 dB</b>
MIF: <sup>2</sup>	<b>-1.66 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
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: 100 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

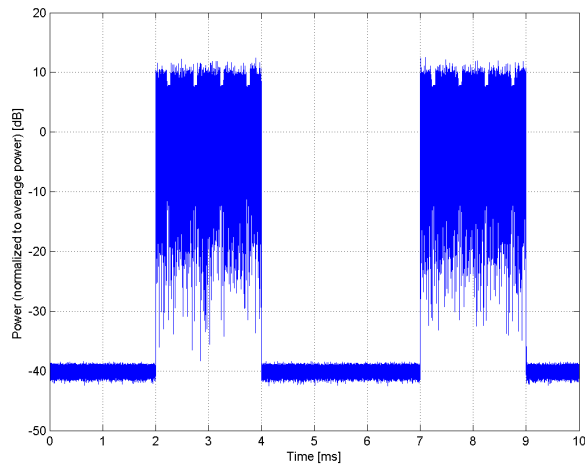
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



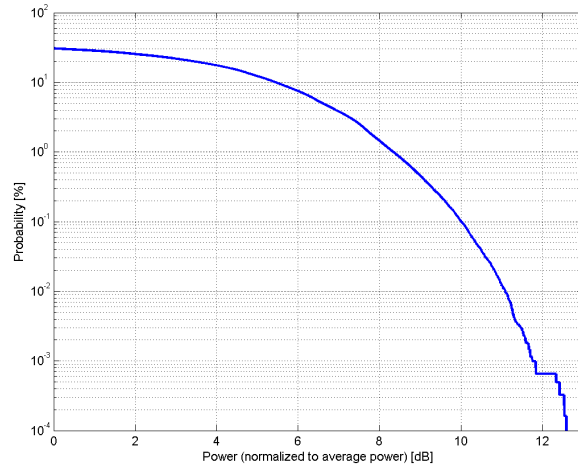
**Time Domain**

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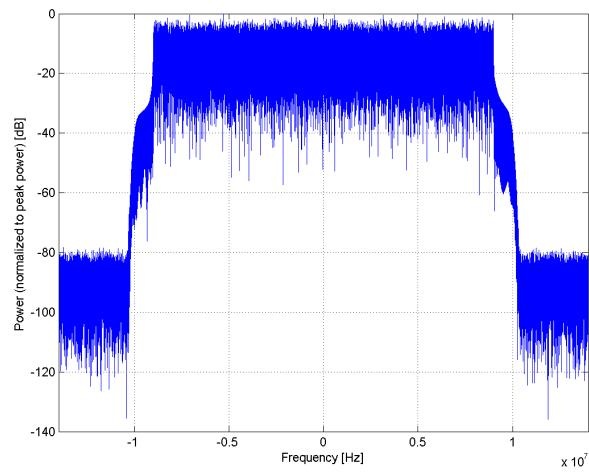
Name:	<b>LTE-TDD (SC-FDMA, 100 % RB, 20 MHz, 64-QAM)</b>
Group:	LTE-TDD
UID:	10105-CAB
PAR: <sup>1</sup>	<b>10.01 dB</b>
MIF: <sup>2</sup>	<b>-1.67 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 33, 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: 64QAM Allocated RB: 100 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

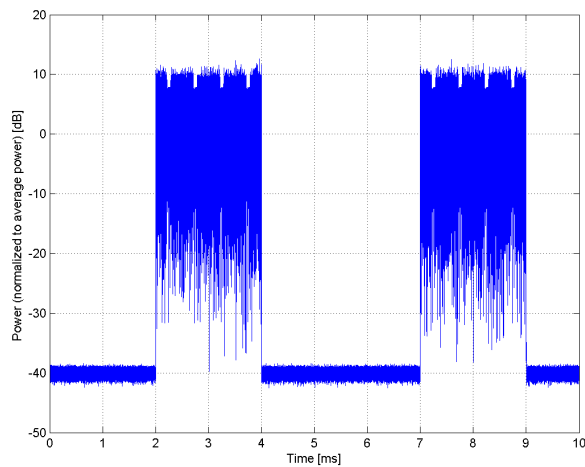
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

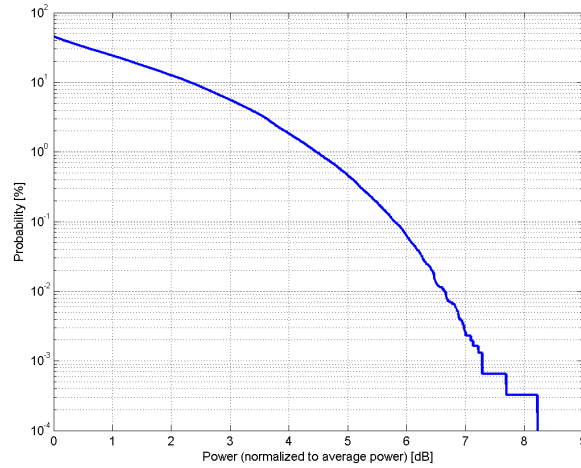


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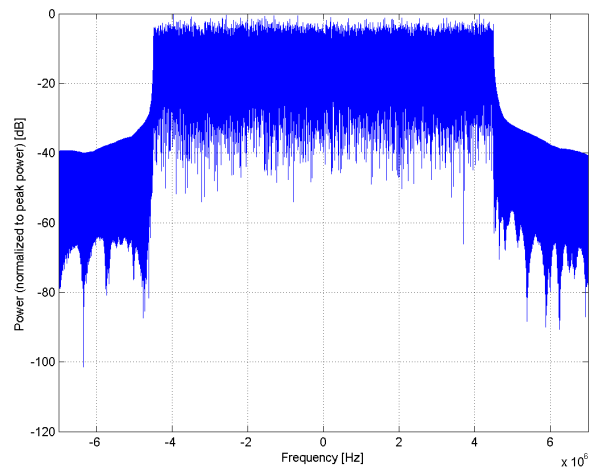
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 10 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10108-CAB
PAR: <sup>1</sup>	<b>5.80 dB</b>
MIF: <sup>2</sup>	<b>-21.57 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, 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: 50 Transport Block Size: 4392 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

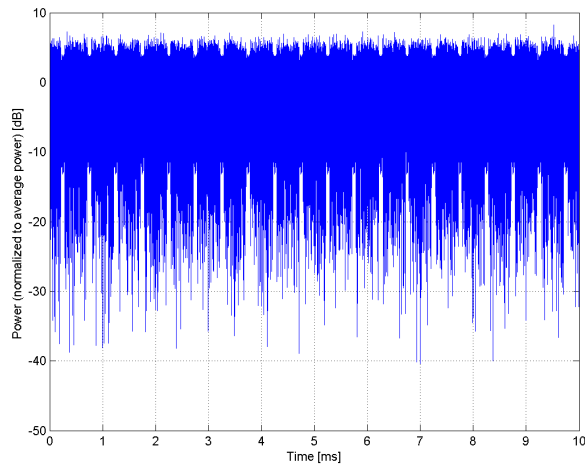
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Group: LTE-FDD  
UID: 10109-CAB

PAR: <sup>1</sup> **6.43 dB**  
MIF: <sup>2</sup> **-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

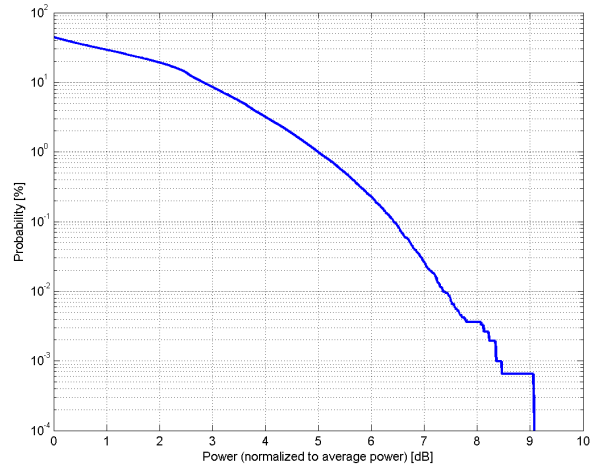
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 16-QAM  
Data Type: UL-SCH  
Number RB: 50  
Transport Block Size: 14112  
TBS Index: 14  
MCS Index: 15  
Data Type: PN9

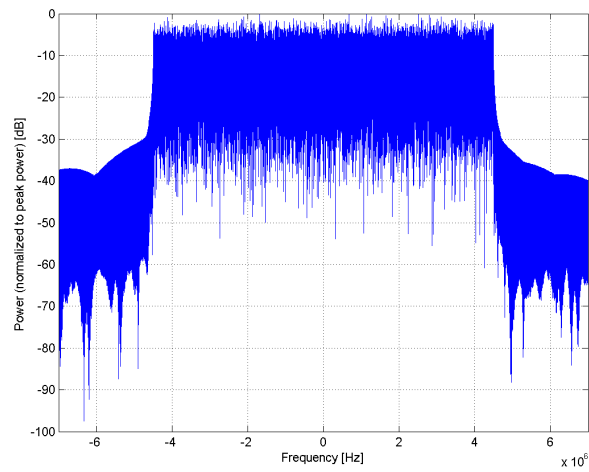
Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

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

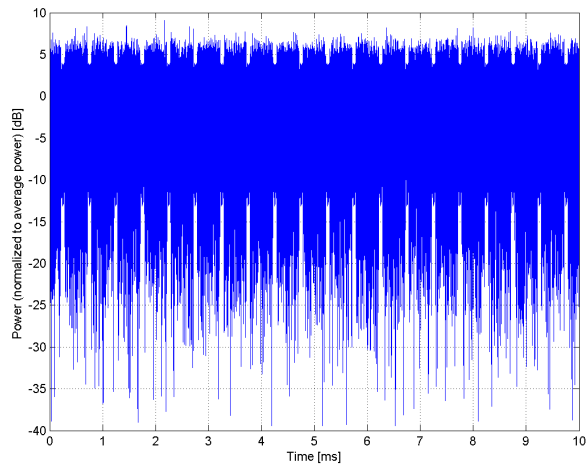
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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Name: **LTE-FDD (SC-FDMA, 100 % RB, 5 MHz, QPSK)**

Group: LTE-FDD  
UID: 10110-CAB

PAR: <sup>1</sup> **5.75 dB**  
MIF: <sup>2</sup> **-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

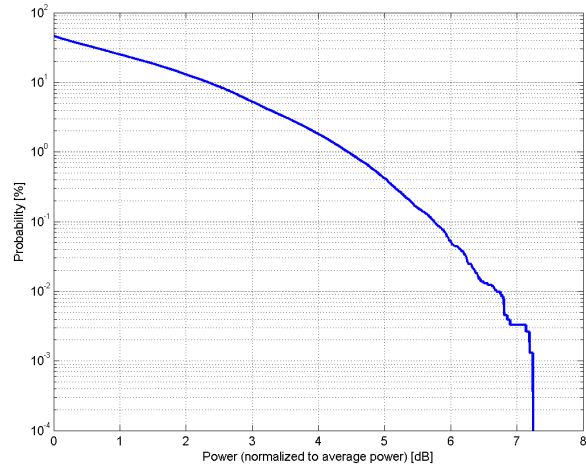
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 25  
Transport Block Size: 2216  
TBS Index: 5  
MCS Index: 5  
Data Type: PN9

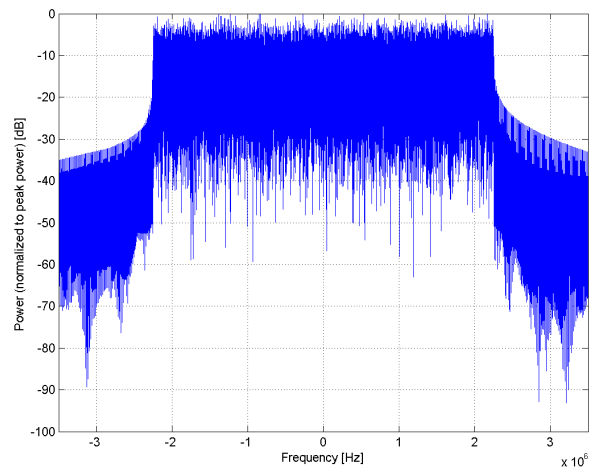
Bandwidth: 5.0 MHz  
Integration Time: 10.0 ms

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

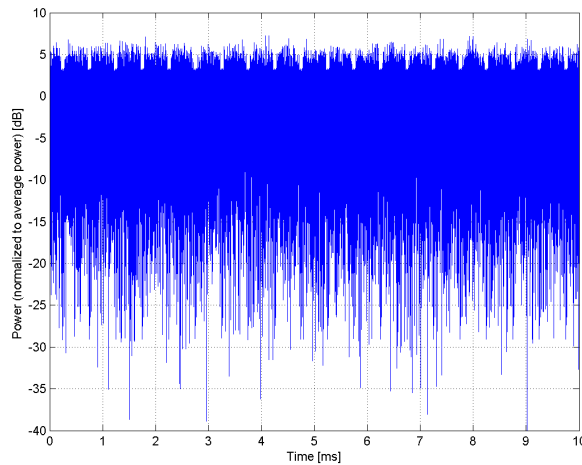
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 5 MHz, 16-QAM)**

Group: LTE-FDD  
UID: 10111-CAB

PAR: <sup>1</sup> **6.44 dB**  
MIF: <sup>2</sup> **-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

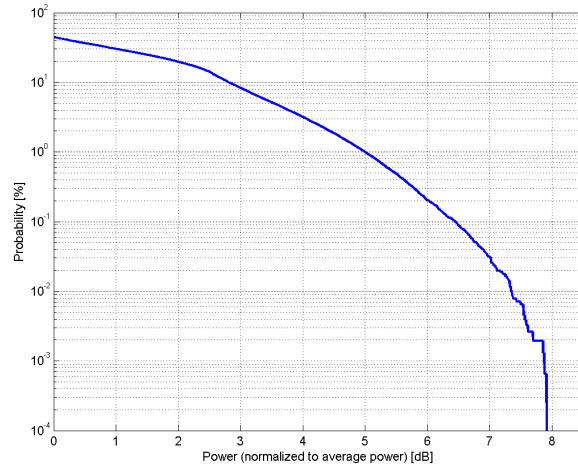
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 16-QAM  
Data Type: UL-SCH  
Number RB: 25  
Transport Block Size: 7224  
TBS Index: 14  
MCS Index: 15  
Data Type: PN9

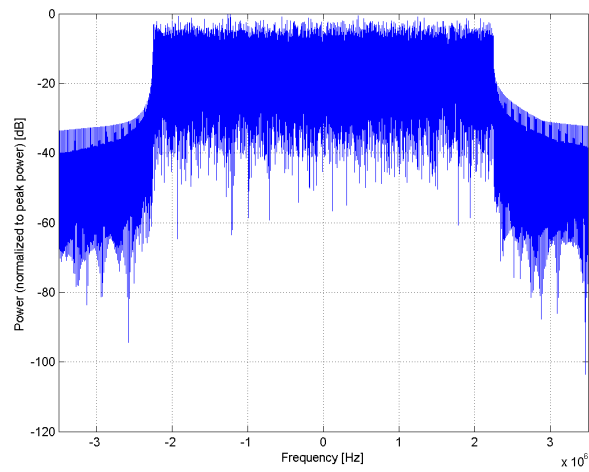
Bandwidth: 5.0 MHz  
Integration Time: 10.0 ms

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

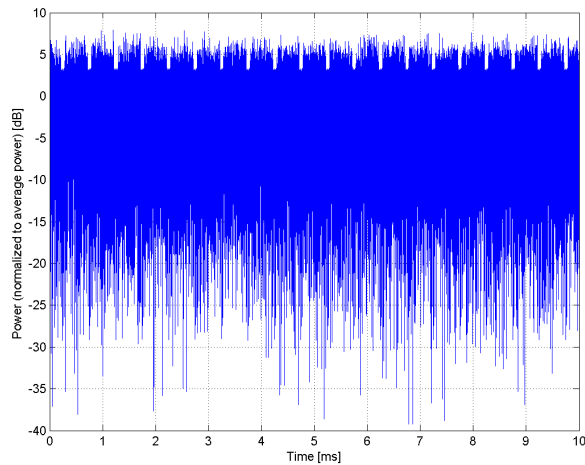
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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-CAB

PAR: <sup>1</sup> **6.59 dB**  
MIF: <sup>2</sup> **-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

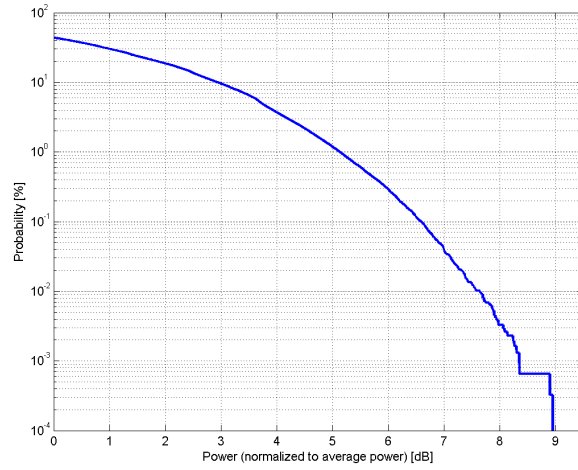
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 64-QAM  
Data Type: UL-SCH  
Number RB: 50  
Transport Block Size: 28336  
TBS Index: 23  
MCS Index: 25  
Data Type: PN9

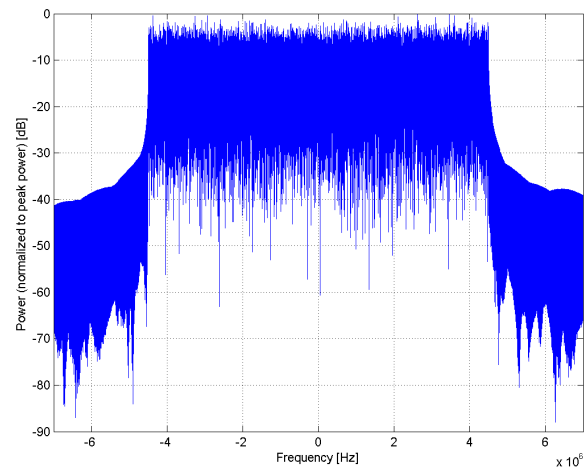
Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

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

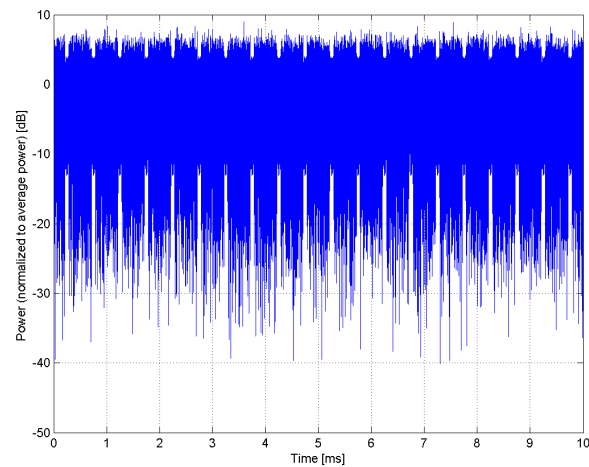
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 5 MHz, 64-QAM)**

Group: LTE-FDD  
UID: 10113-CAB

PAR: <sup>1</sup> **6.62 dB**  
MIF: <sup>2</sup> **-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

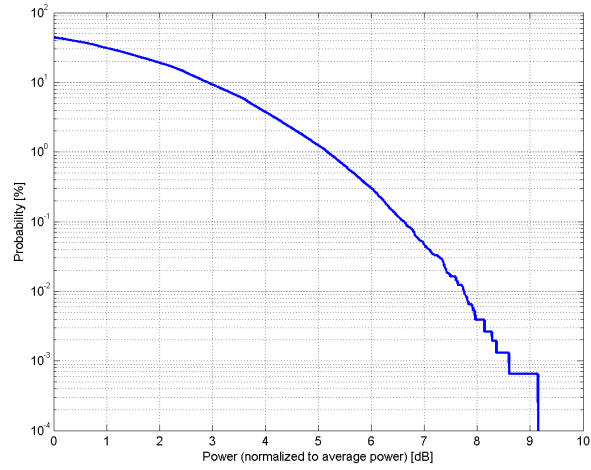
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 64-QAM  
Data Type: UL-SCH  
Number RB: 25  
Transport Block Size: 14112  
TBS Index: 23  
MCS Index: 25  
Data Type: PN9

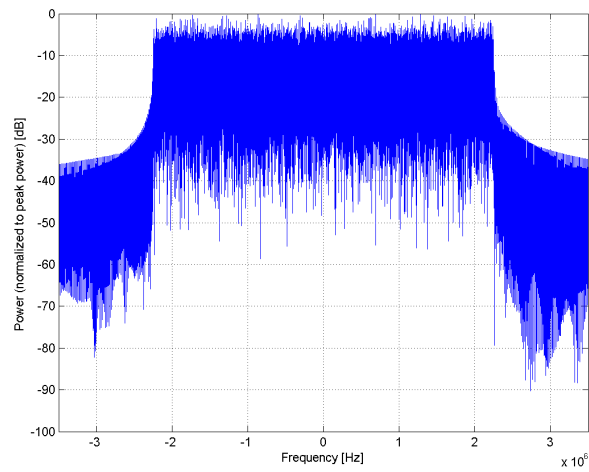
Bandwidth: 5.0 MHz  
Integration Time: 10.0 ms

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

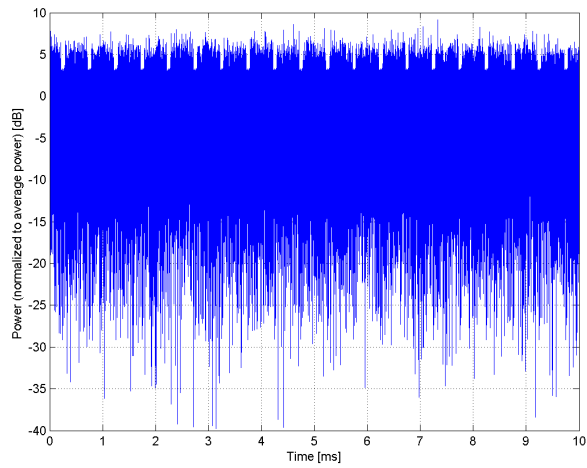
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



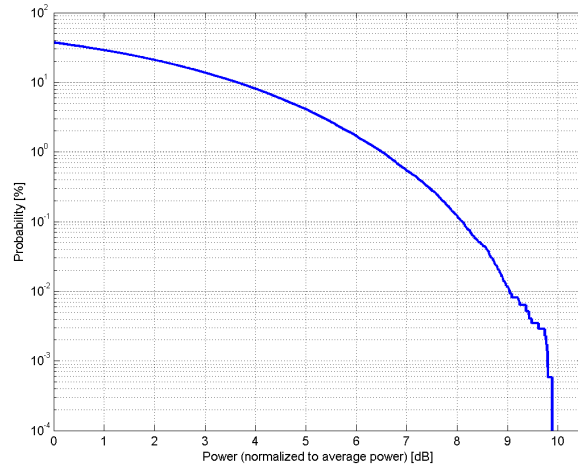
**Time Domain**

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

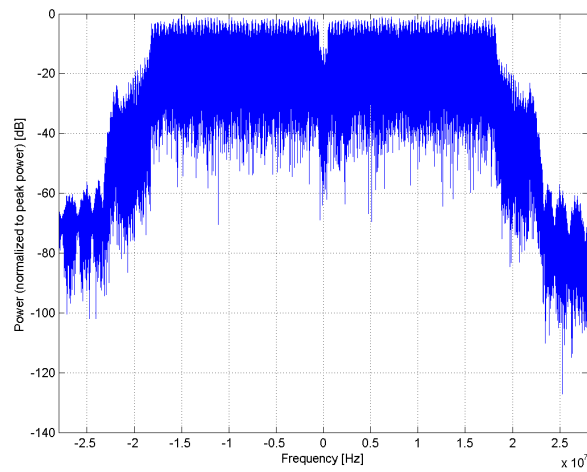
Name:	<b>IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)</b>
Group:	WLAN
UID:	10114-CAA
PAR: <sup>1</sup>	<b>8.10 dB</b>
MIF: <sup>2</sup>	<b>-17.24 dB</b>
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029) 5 GHz Band (5030.0-5825.0 MHz, 20053)
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

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

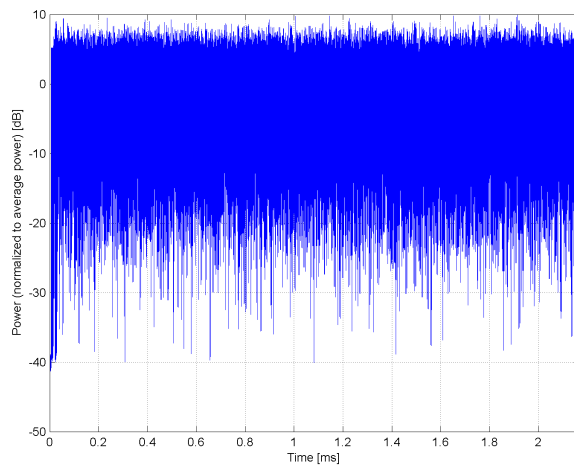
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



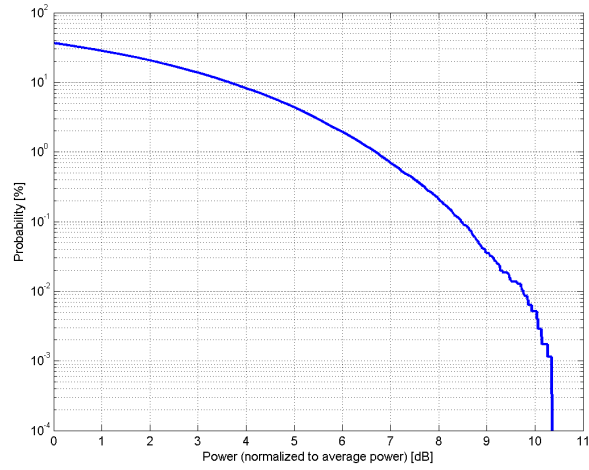
**Time Domain**

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

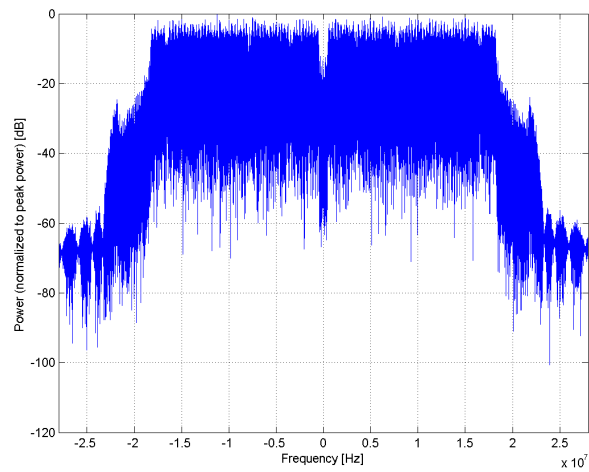
Name:	<b>IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)</b>
Group:	WLAN
UID:	10115-CAA
PAR: <sup>1</sup>	<b>8.46 dB</b>
MIF: <sup>2</sup>	<b>-17.11 dB</b>
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029) 5 GHz Band (5030.0-5825.0 MHz, 20053)
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

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

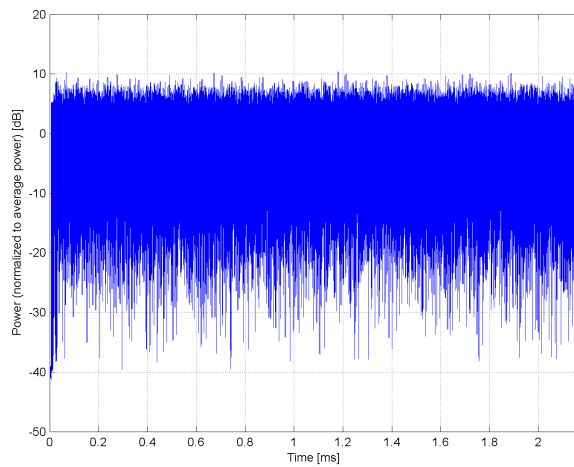
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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 Greenfield, 135 Mbps, 64-QAM)**

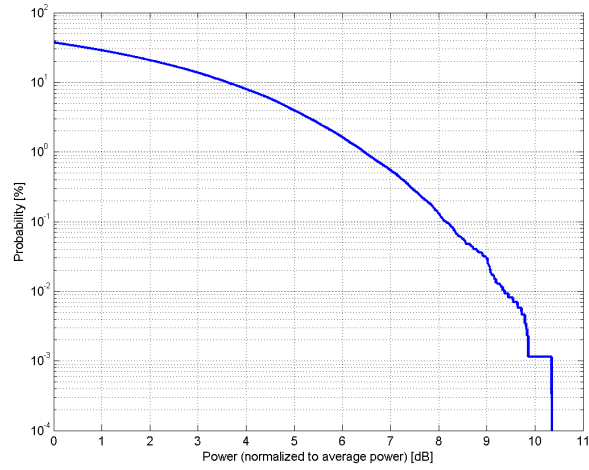
Group: WLAN  
UID: 10116-CAA

PAR:<sup>1</sup> **8.15 dB**  
MIF:<sup>2</sup> **-17.09 dB**

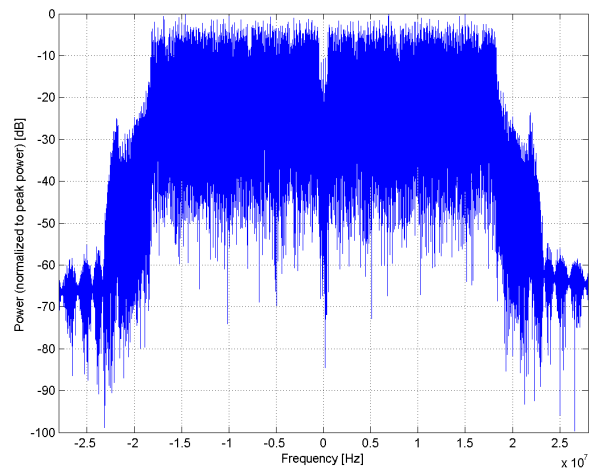
Standard Reference: IEEE 802.11n-2009  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band: IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029)  
5 GHz Band (5030.0-5825.0 MHz, 20053)  
Detailed Specification: Modulation: 64-QAM  
Data Rate: 135 Mbps  
PPDU Format: HT Greenfield  
PPDU Type: 40 MHz  
MCS Index: 7  
Guard Interval: Long  
Payload Length: 36008  
Bandwidth: 40.0 MHz  
Integration Time: 2.2 ms

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

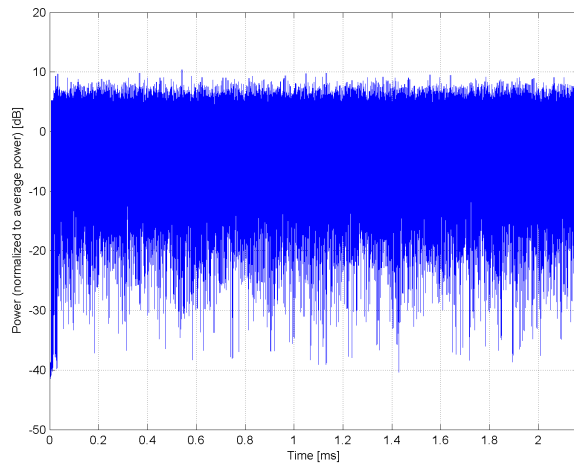
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



### Complementary Cumulative Distribution Function (CCDF)



### Frequency Domain



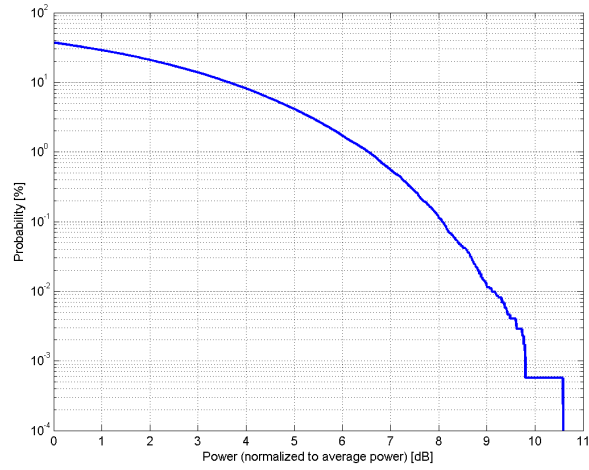
### Time Domain

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

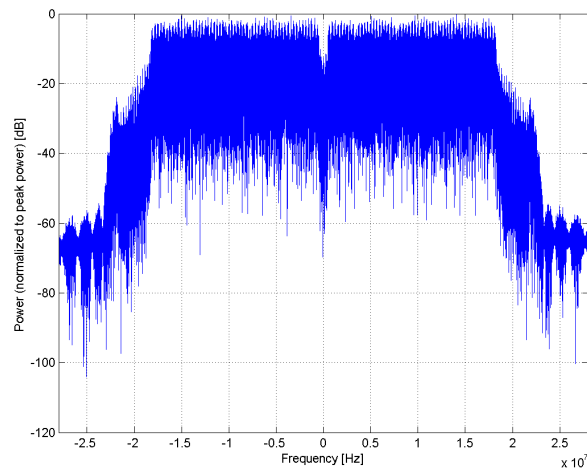
Name:	<b>IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)</b>
Group:	WLAN
UID:	10117-CAA
PAR: <sup>1</sup>	<b>8.07 dB</b>
MIF: <sup>2</sup>	<b>-17.16 dB</b>
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029) 5 GHz Band (5030.0-5825.0 MHz, 20053)
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

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

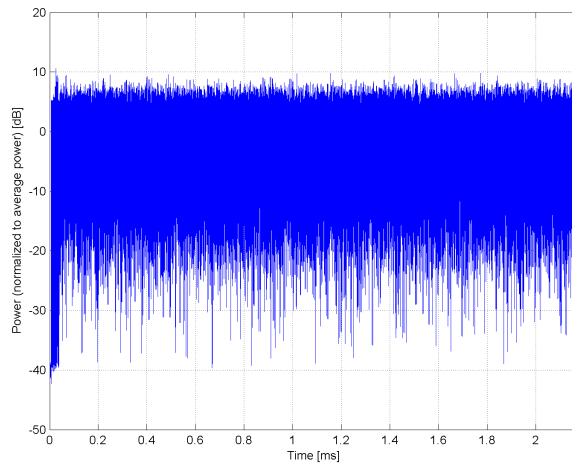
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



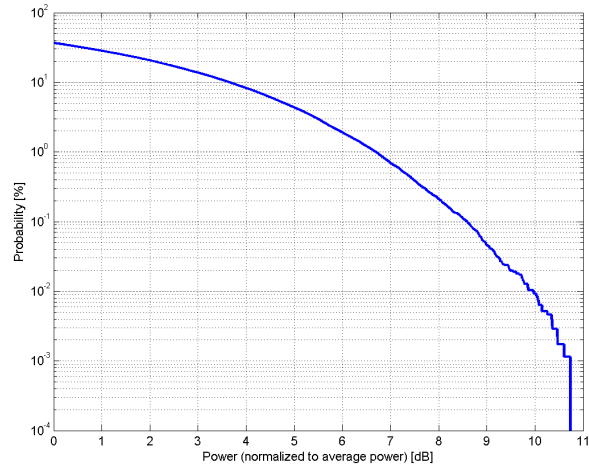
**Time Domain**

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

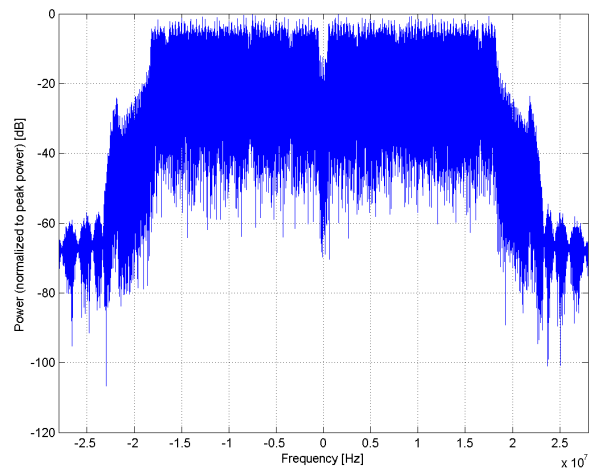
Name:	<b>IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)</b>
Group:	WLAN
UID:	10118-CAA
PAR: <sup>1</sup>	<b>8.59 dB</b>
MIF: <sup>2</sup>	<b>-17.09 dB</b>
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029) 5 GHz Band (5030.0-5825.0 MHz, 20053)
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

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

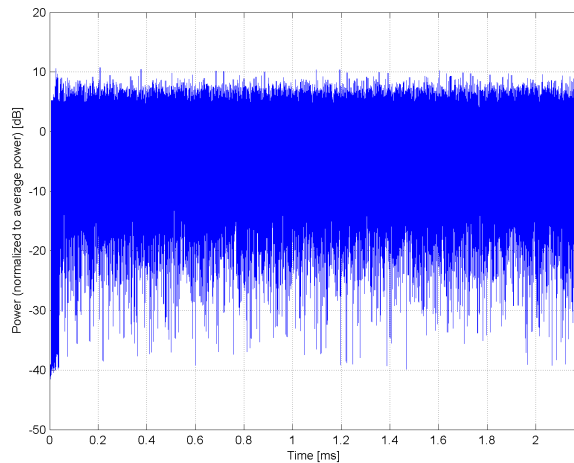
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



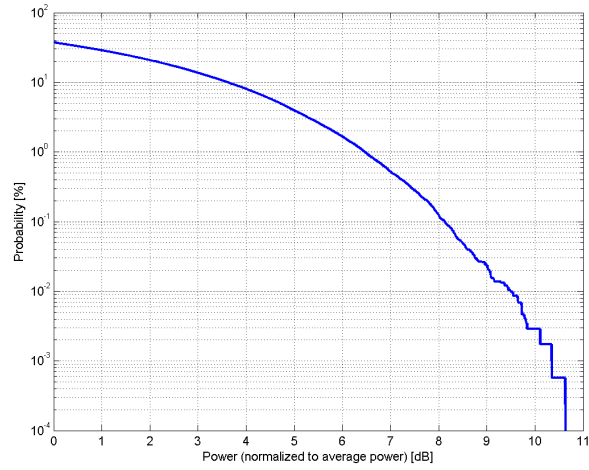
**Time Domain**

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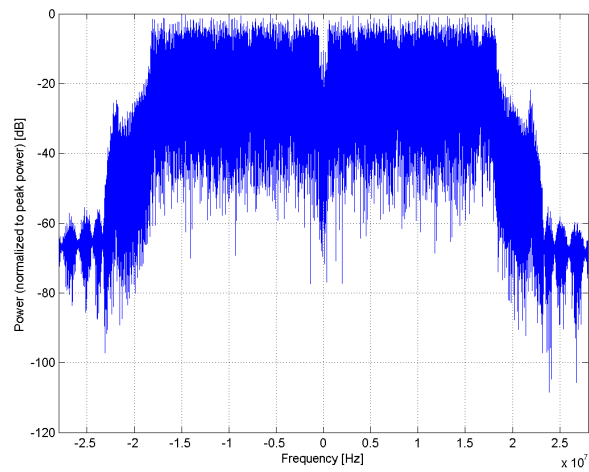
Name:	<b>IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)</b>
Group:	WLAN
UID:	10119-CAA
PAR: <sup>1</sup>	<b>8.13 dB</b>
MIF: <sup>2</sup>	<b>-17.00 dB</b>
Standard Reference:	IEEE 802.11n-2009
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	IEEE 802.11n 2.4GHz band (2409.5-2474.5 MHz, 20029) 5 GHz Band (5030.0-5825.0 MHz, 20053)
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

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

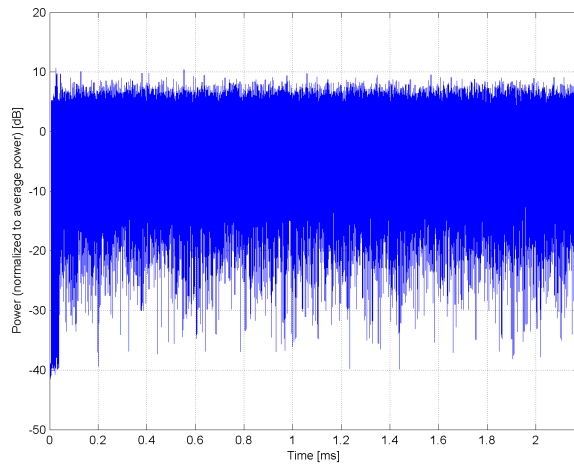
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**



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

Group: LTE-FDD  
UID: 10140-CAB

PAR: <sup>1</sup> **6.49 dB**  
MIF: <sup>2</sup> **-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  
Random amplitude modulation

Category:

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 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 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 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166)  
Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211)  
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: 75

Transport Block Size: 21384

TBS Index: 14

MCS Index: 15

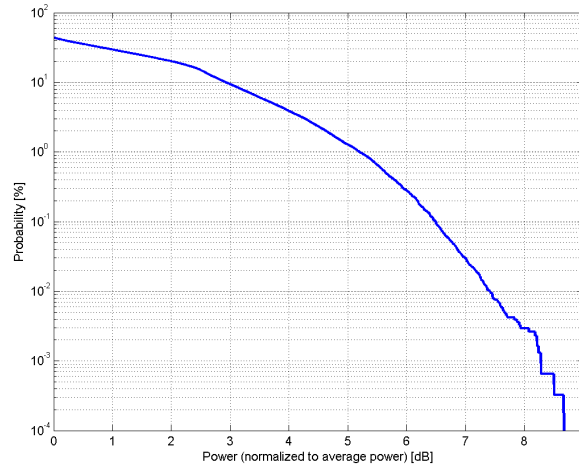
Data Type: PN9

Bandwidth: 15.0 MHz

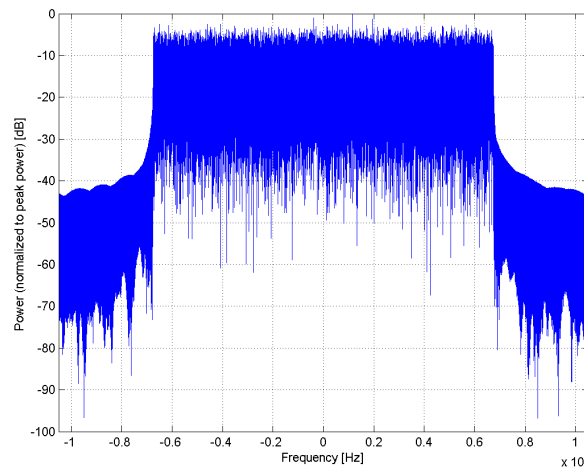
Integration Time: 10.0 ms

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

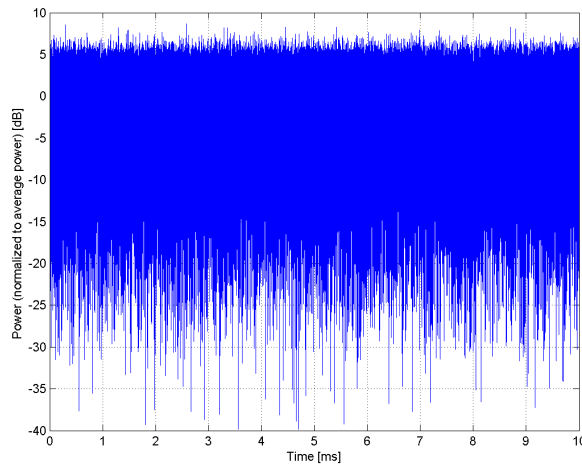
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Group: LTE-FDD  
UID: 10141-CAB

PAR: <sup>1</sup> **6.53 dB**  
MIF: <sup>2</sup> **-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  
Random amplitude modulation

Category:

Modulation: 64-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 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 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 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166)  
Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211)  
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: 64QAM

Data Type: UL-SCH

Number RB: 75

Transport Block Size: 43816

TBS Index: 23

MCS Index: 25

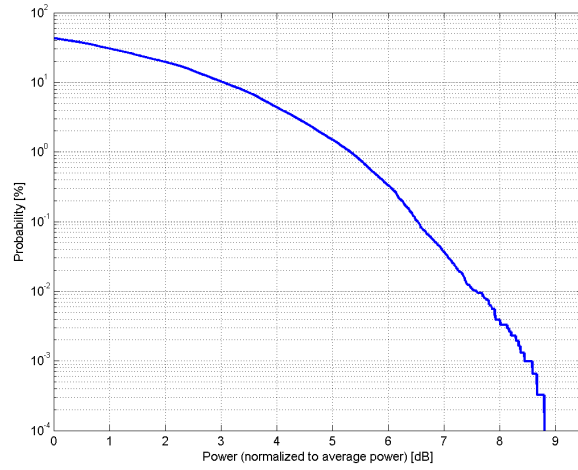
Data Type: PN9

Bandwidth: 15.0 MHz

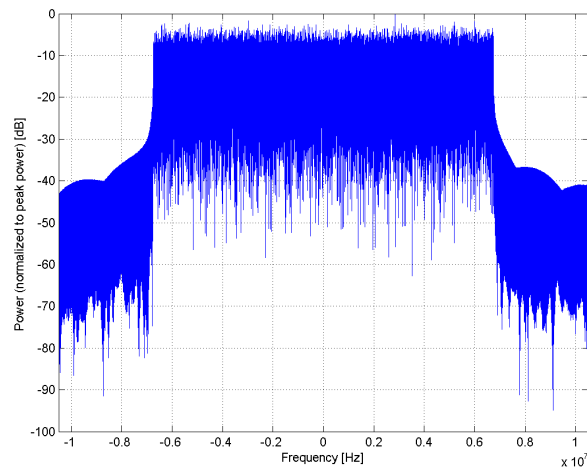
Integration Time: 10.0 ms

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

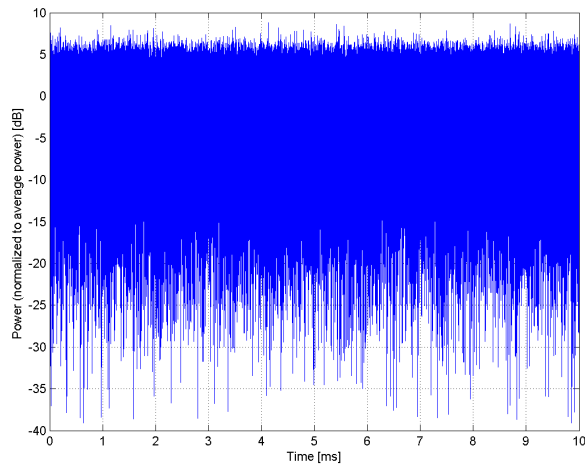
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



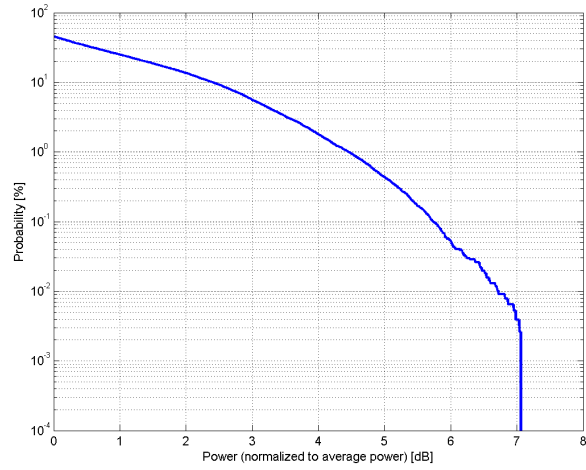
**Time Domain**

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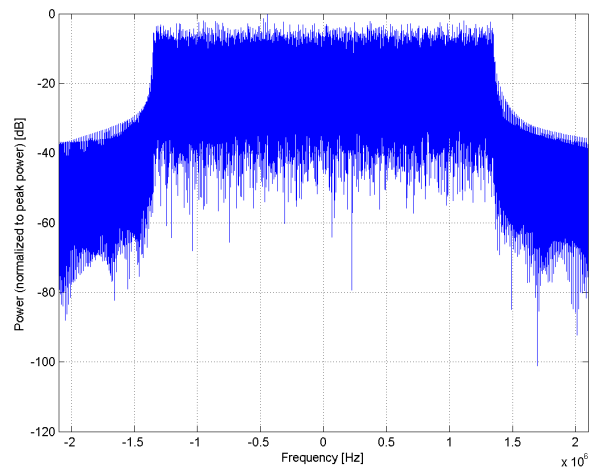
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 3 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10142-CAB
PAR: <sup>1</sup>	<b>5.73 dB</b>
MIF: <sup>2</sup>	<b>-22.36 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 2, 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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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: 15 Transport Block Size: 1320 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

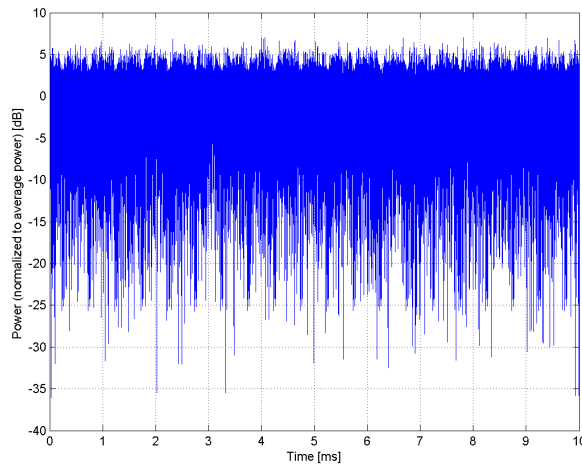
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



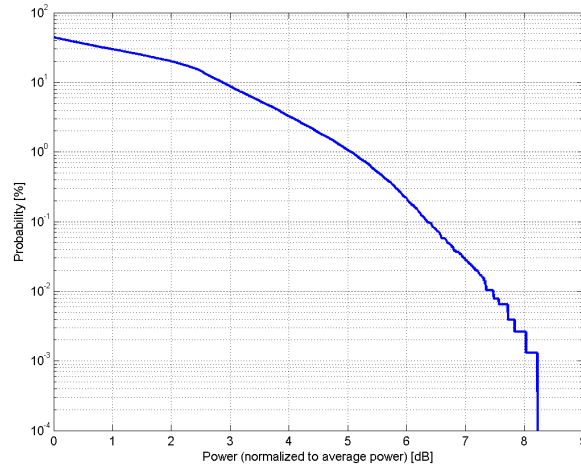
**Time Domain**

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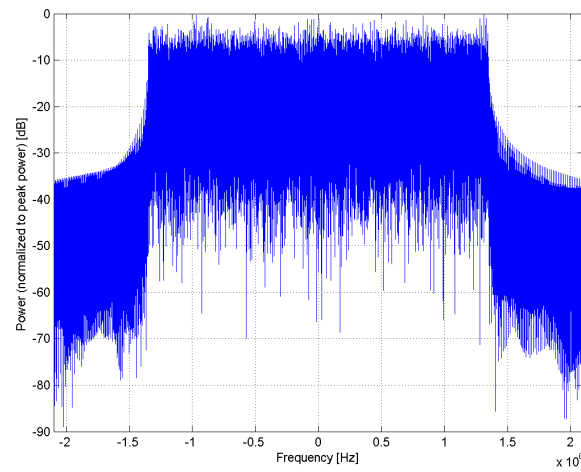
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 3 MHz, 16-QAM)</b>
Group:	LTE-FDD
UID:	10143-CAB
PAR: <sup>1</sup>	<b>6.35 dB</b>
MIF: <sup>2</sup>	<b>-14.75 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 2, 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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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: 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

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

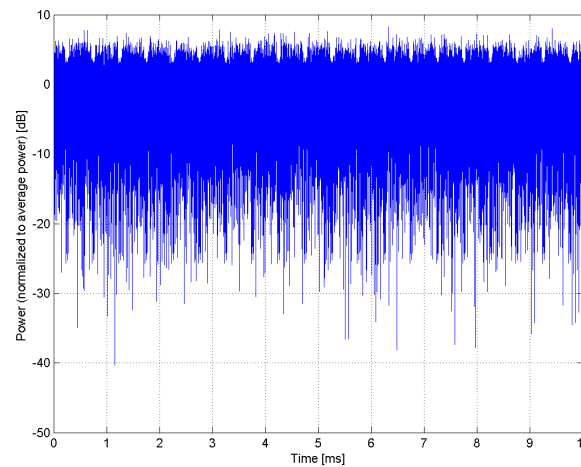
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

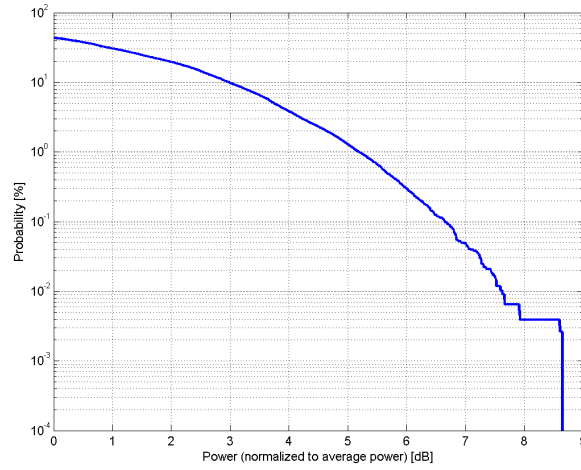


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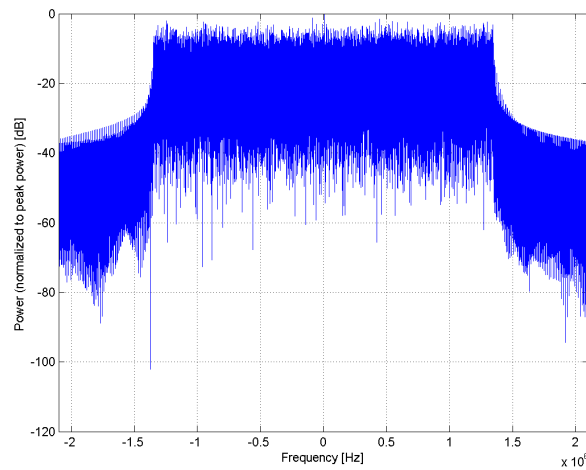
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 3 MHz, 64-QAM)</b>
Group:	LTE-FDD
UID:	10144-CAB
PAR: <sup>1</sup>	<b>6.65 dB</b>
MIF: <sup>2</sup>	<b>-15.02 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 2, 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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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: 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

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

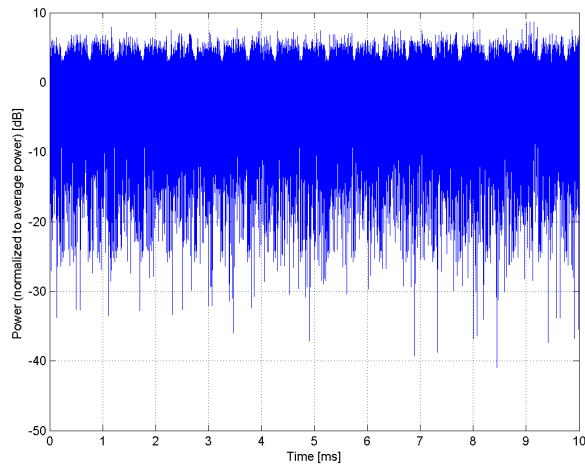
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



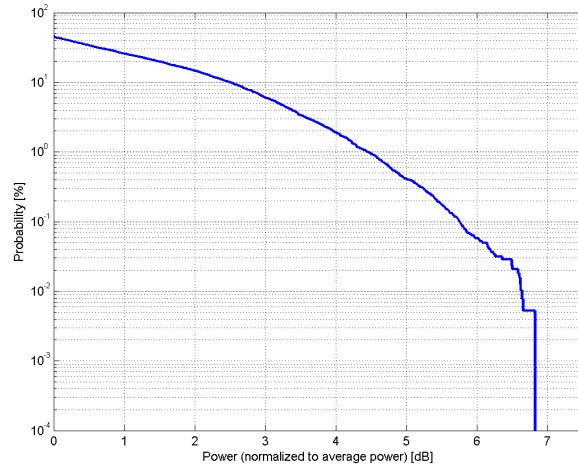
**Time Domain**

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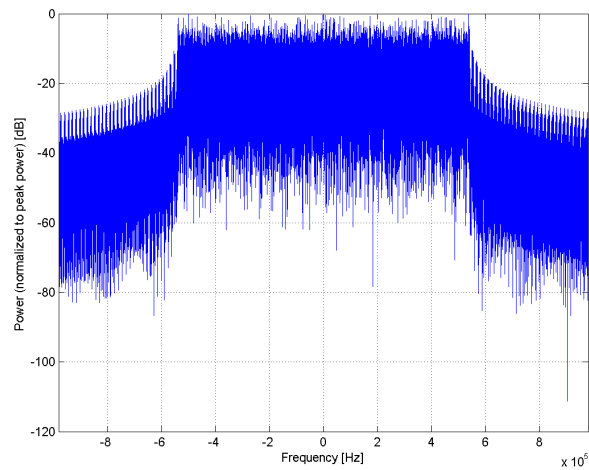
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 1.4 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10145-CAB
PAR: <sup>1</sup>	<b>5.76 dB</b>
MIF: <sup>2</sup>	<b>-17.39 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 2, 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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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)
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

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

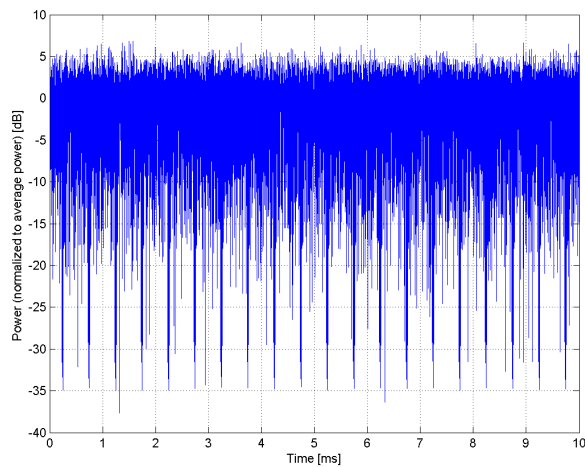
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 1.4 MHz, 16-QAM)**

Group: LTE-FDD  
UID: 10146-CAB

PAR: <sup>1</sup> **6.41 dB**  
MIF: <sup>2</sup> **-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  
Random amplitude modulation

Category:

Modulation:

Frequency Band:

16-QAM  
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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140)  
Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210)  
Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164)  
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)

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

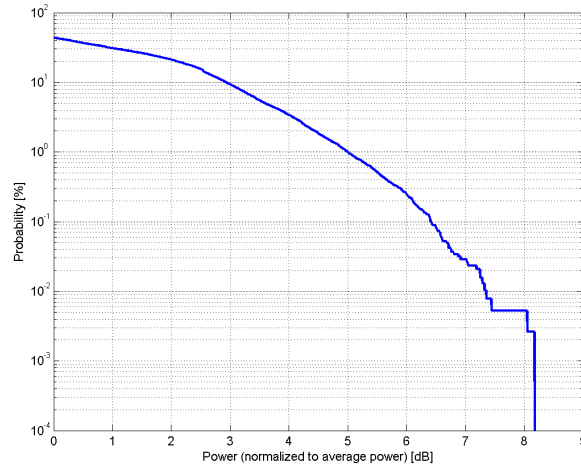
Bandwidth:

Integration Time:

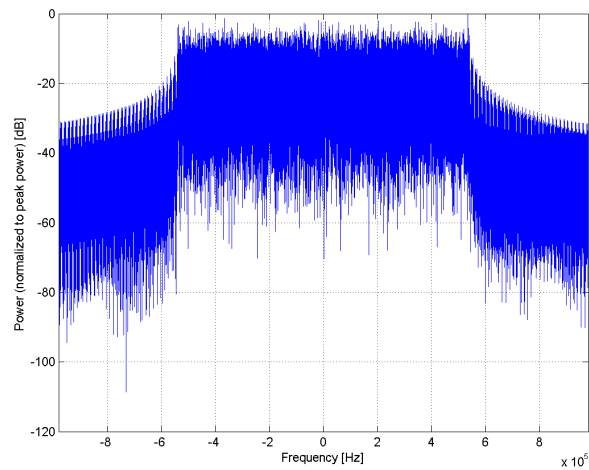
1.4 MHz  
10.0 ms

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

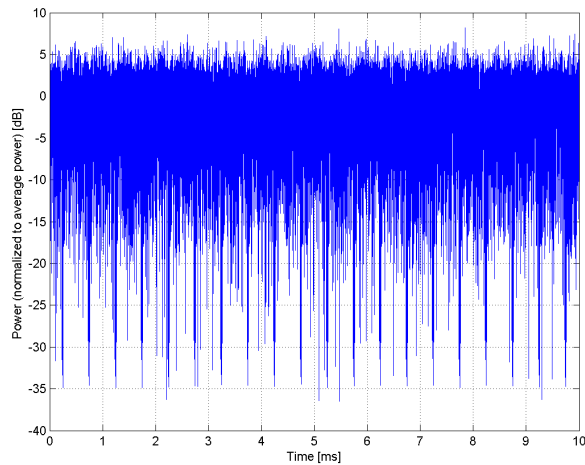
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



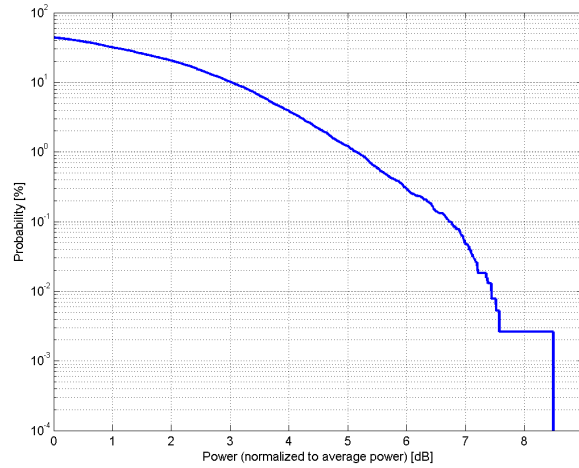
**Time Domain**

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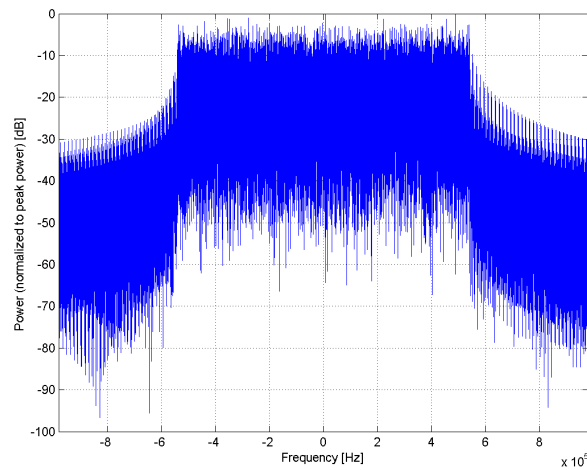
Name:	<b>LTE-FDD (SC-FDMA, 100 % RB, 1.4 MHz, 64-QAM)</b>
Group:	LTE-FDD
UID:	10147-CAB
PAR: <sup>1</sup>	<b>6.72 dB</b>
MIF: <sup>2</sup>	<b>-13.90 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	64-QAM
Frequency Band:	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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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)
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

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

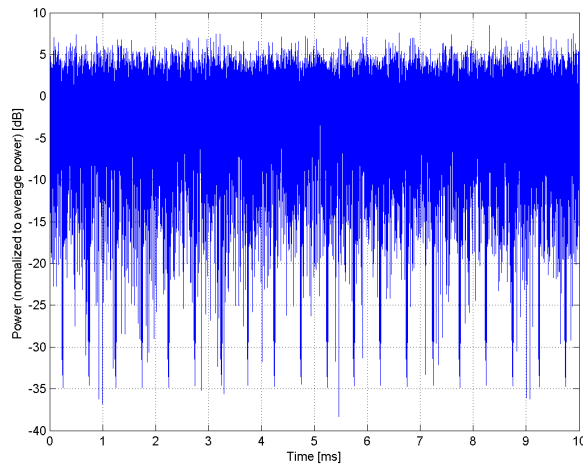
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

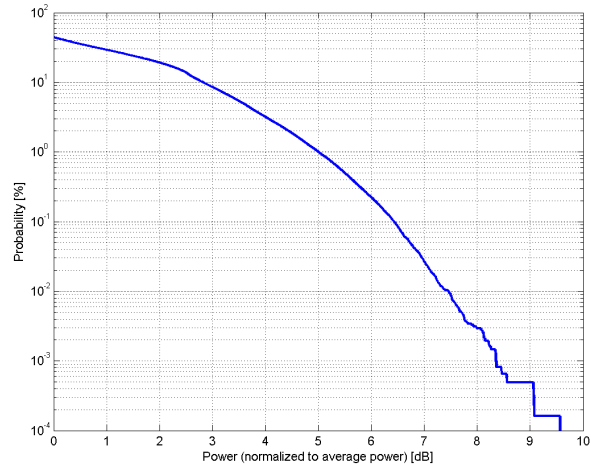


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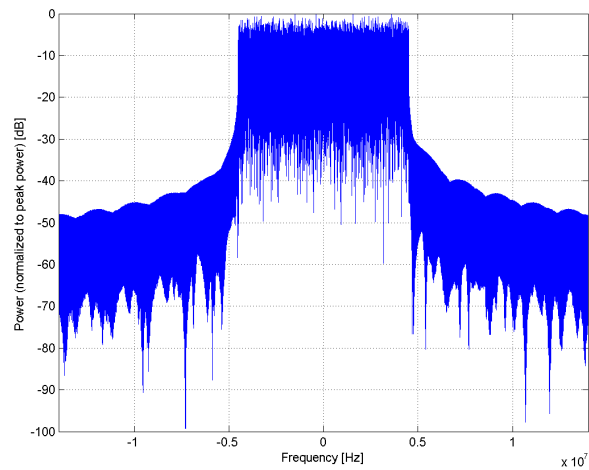
Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 20 MHz, 16-QAM)</b>
Group:	LTE-FDD
UID:	10149-CAB
PAR: <sup>1</sup>	<b>6.42 dB</b>
MIF: <sup>2</sup>	<b>-16.87 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude 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 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: 50 Transport Block Size: 14112 TBS Index: 14 MCS Index: 15 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

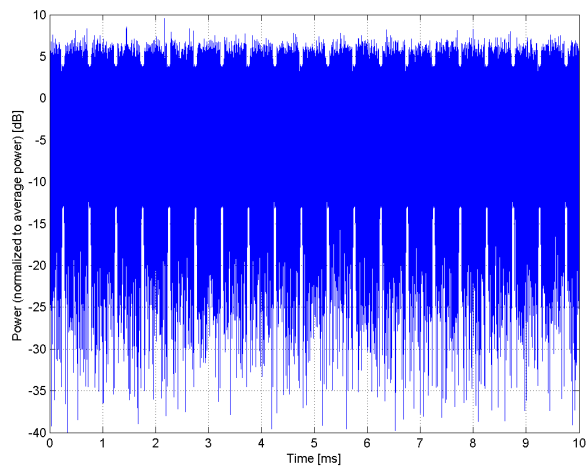
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



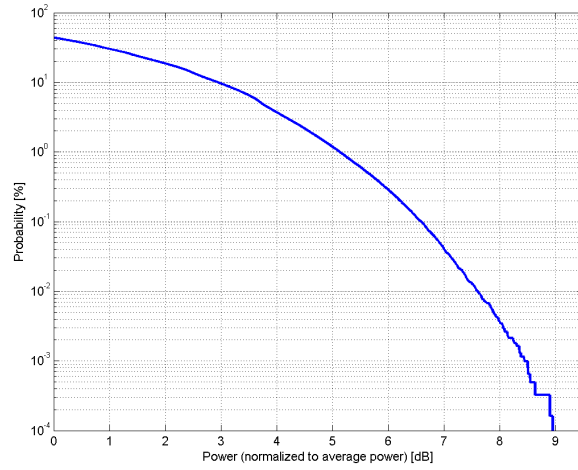
**Time Domain**

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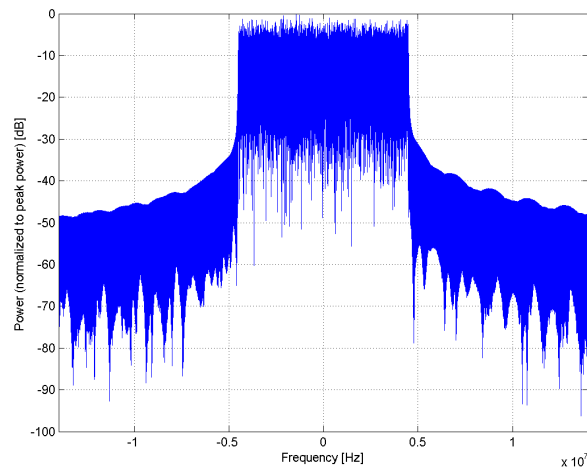
Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 20 MHz, 64-QAM)</b>
Group:	LTE-FDD
UID:	10150-CAB
PAR: <sup>1</sup>	<b>6.60 dB</b>
MIF: <sup>2</sup>	<b>-16.33 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-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: 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

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

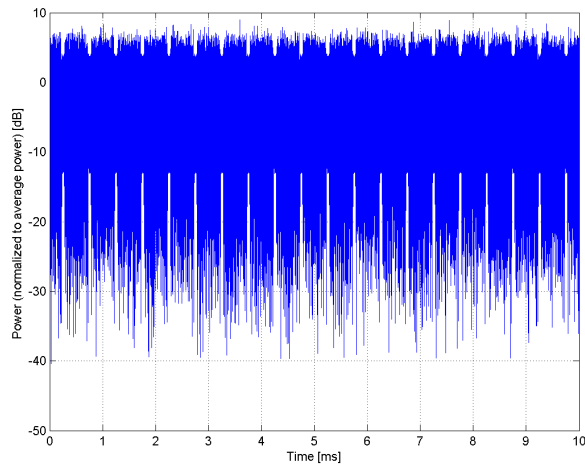
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



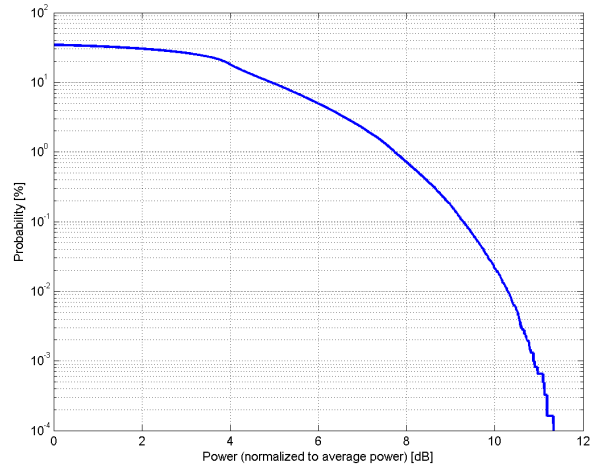
**Time Domain**

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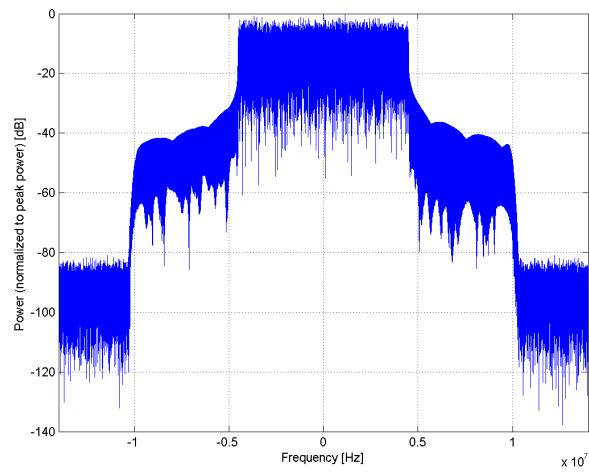
Name:	<b>LTE-TDD (SC-FDMA, 50 % RB, 20 MHz, QPSK)</b>
Group:	LTE-TDD
UID:	10151-CAB
PAR: <sup>1</sup>	<b>9.28 dB</b>
MIF: <sup>2</sup>	<b>-1.64 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33, 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: QPSK Allocated RB: 50 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

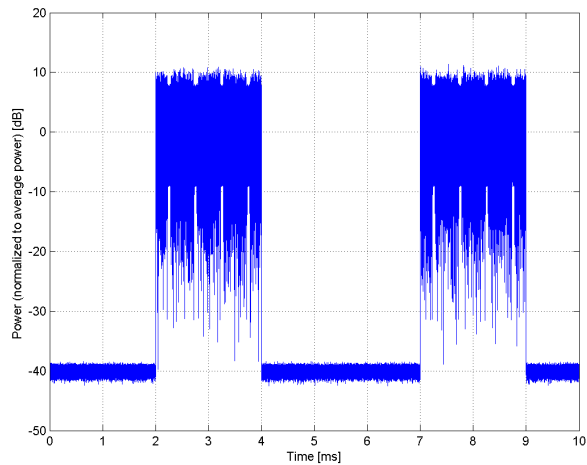
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



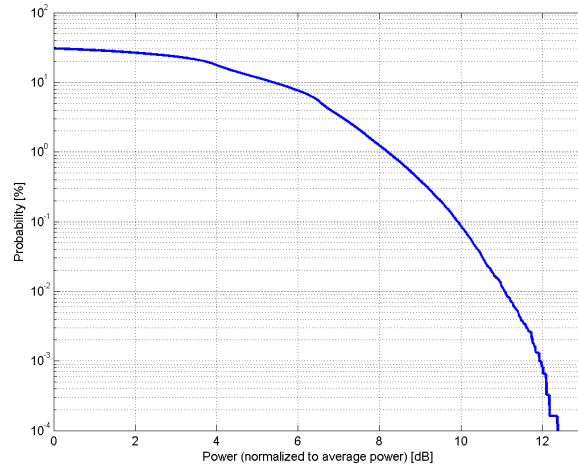
**Time Domain**

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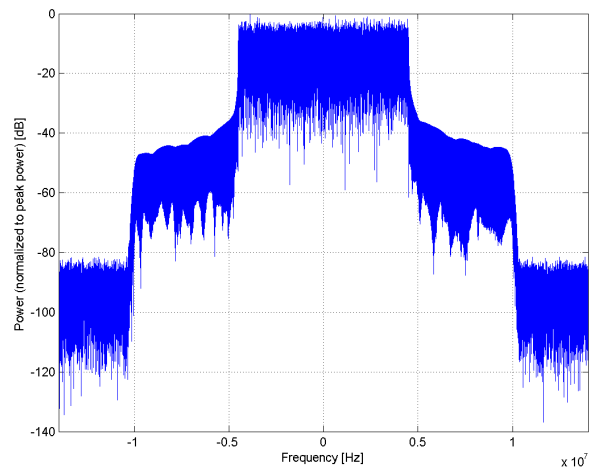
Name:	<b>LTE-TDD (SC-FDMA, 50 % RB, 20 MHz, 16-QAM)</b>
Group:	LTE-TDD
UID:	10152-CAB
PAR: <sup>1</sup>	<b>9.92 dB</b>
MIF: <sup>2</sup>	<b>-1.66 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
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: 50 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

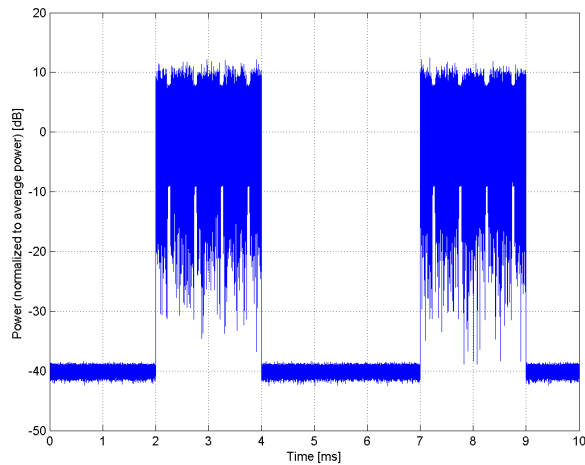
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

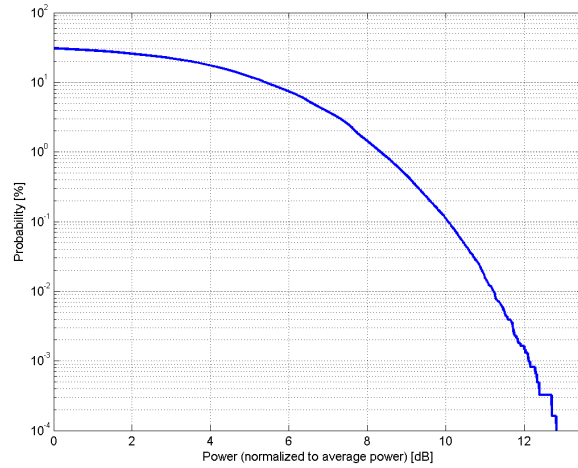


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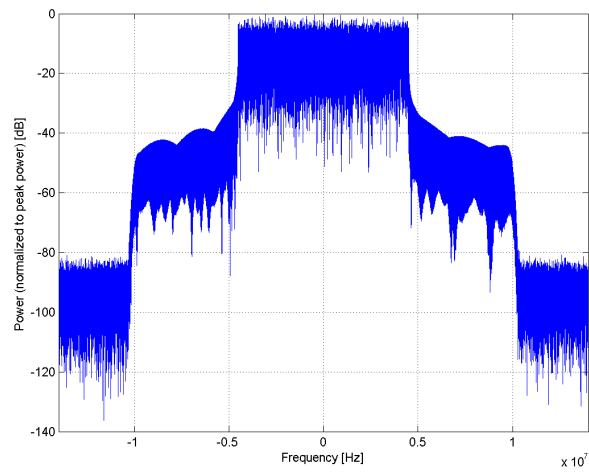
Name:	<b>LTE-TDD (SC-FDMA, 50 % RB, 20 MHz, 64-QAM)</b>
Group:	LTE-TDD
UID:	10153-CAB
PAR: <sup>1</sup>	<b>10.05 dB</b>
MIF: <sup>2</sup>	<b>-1.66 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	64-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: 64QAM Allocated RB: 50 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

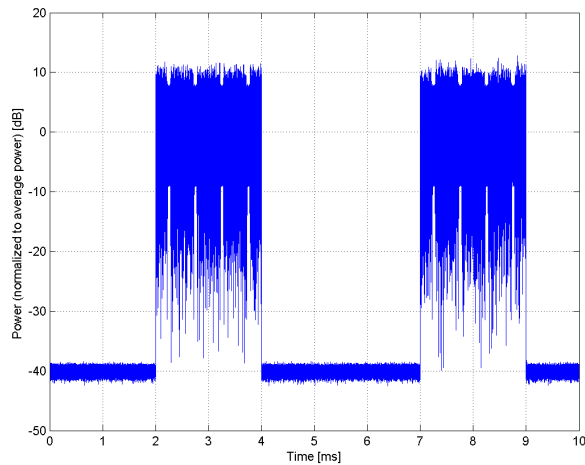
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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-CAB

PAR: <sup>1</sup> **5.75 dB**  
MIF: <sup>2</sup> **-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

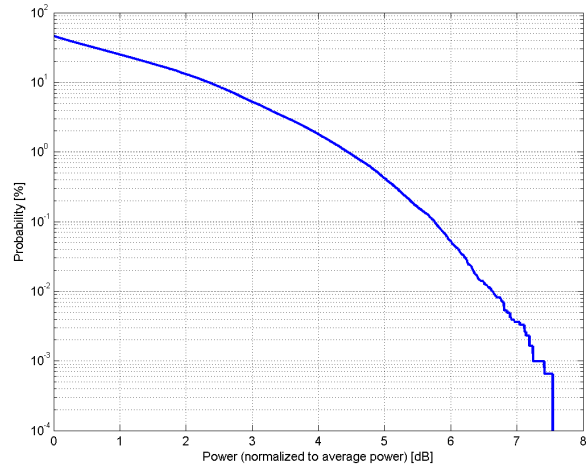
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 25  
Transport Block Size: 2216  
TBS Index: 5  
MCS Index: 5  
Data Type: PN9

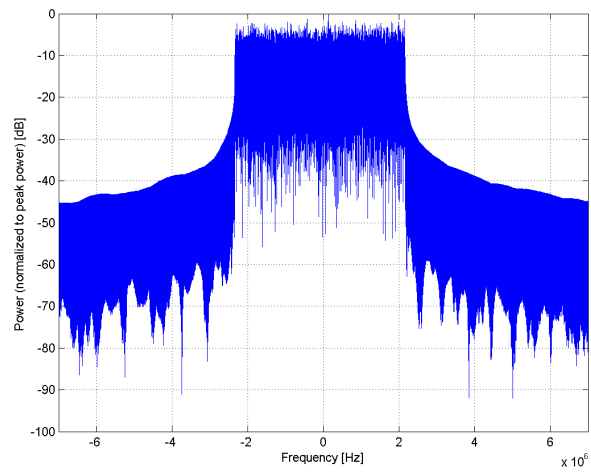
Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

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

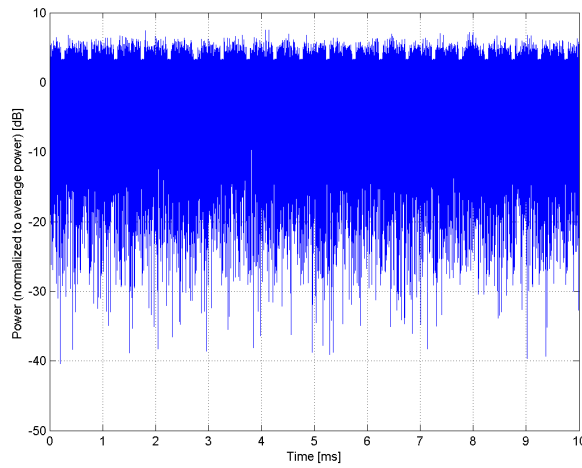
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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-CAB

PAR: <sup>1</sup> **6.43 dB**  
MIF: <sup>2</sup> **-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

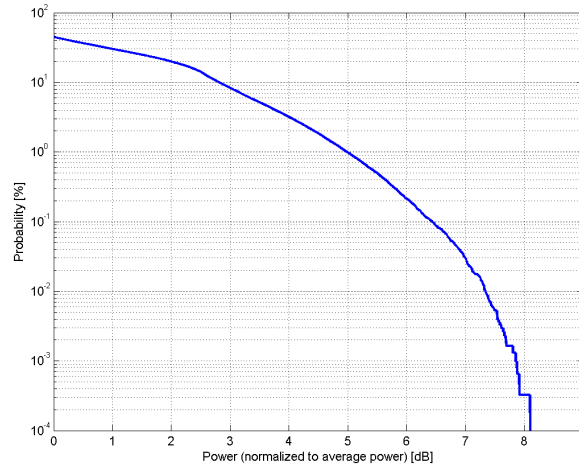
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 25  
Transport Block Size: 7224  
TBS Index: 14  
MCS Index: 15  
Data Type: PN9

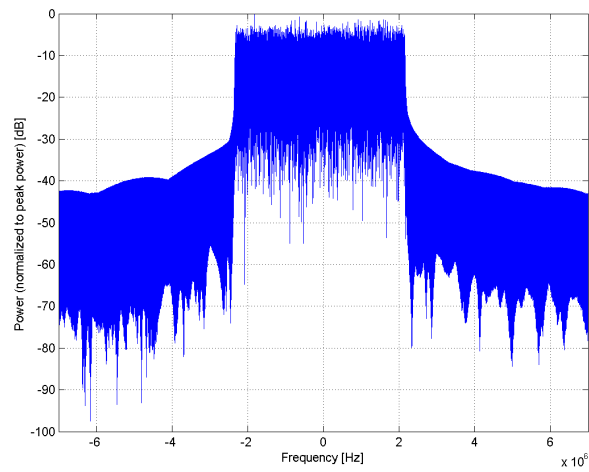
Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

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

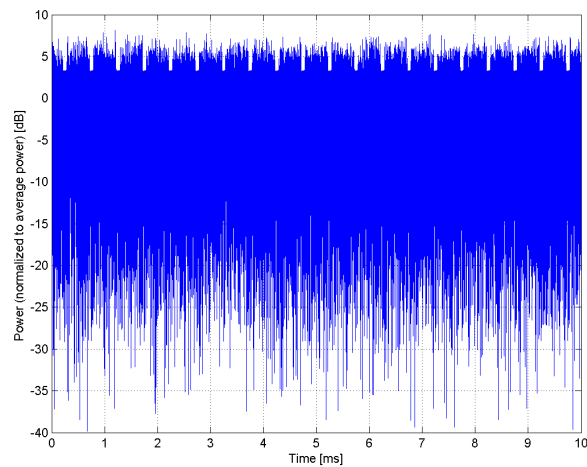
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 50 % RB, 5 MHz, QPSK)**

Group: LTE-FDD  
UID: 10156-CAB

PAR: <sup>1</sup> **5.79 dB**  
MIF: <sup>2</sup> **-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

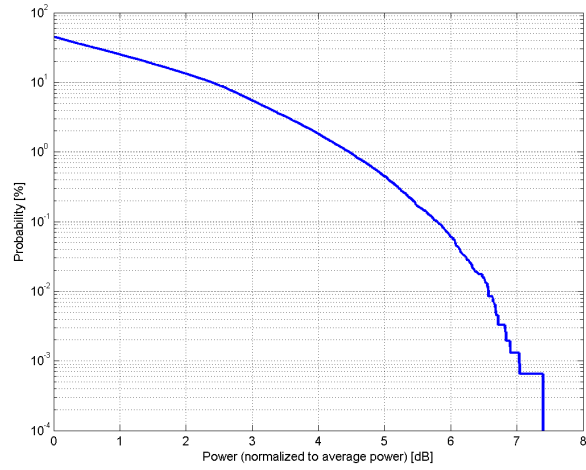
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 12  
Transport Block Size: 1032  
TBS Index: 5  
MCS Index: 5  
Data Type: PN9

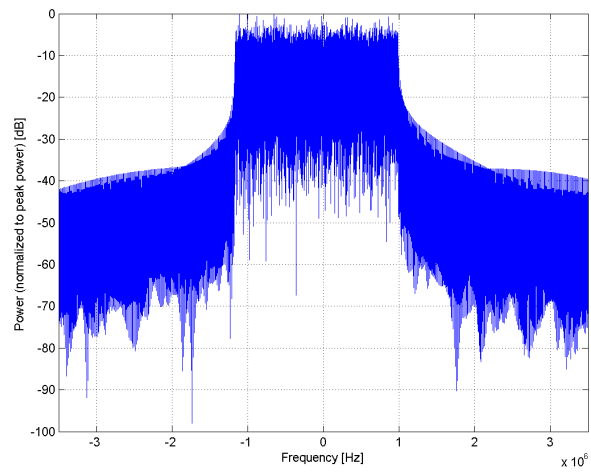
Bandwidth: 5.0 MHz  
Integration Time: 10.0 ms

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

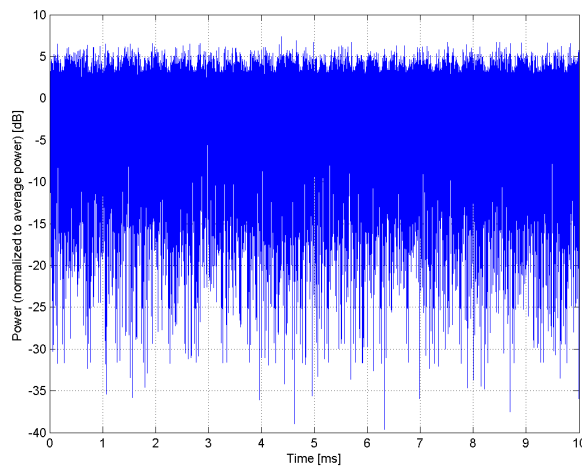
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

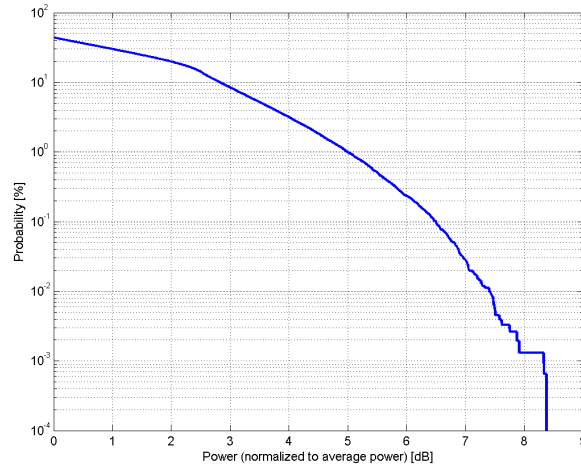


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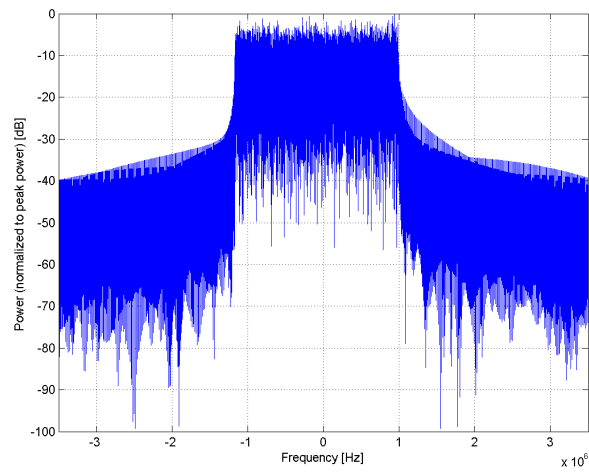
Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 5 MHz, 16-QAM)</b>
Group:	LTE-FDD
UID:	10157-CAB
PAR: <sup>1</sup>	<b>6.49 dB</b>
MIF: <sup>2</sup>	<b>-15.78 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude 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: 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

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

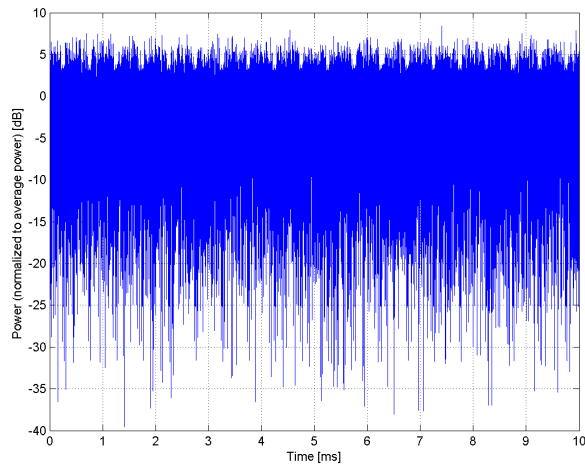
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 50 % RB, 10 MHz, 64-QAM)**

Group: LTE-FDD  
UID: 10158-CAB

PAR: <sup>1</sup> **6.62 dB**  
MIF: <sup>2</sup> **-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

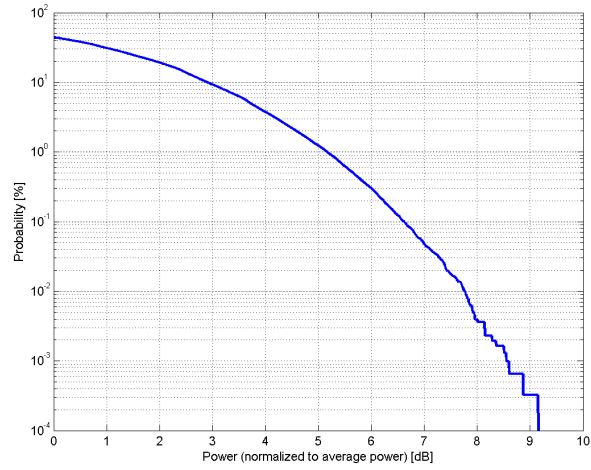
Frequency Band: Band 1, E-UTRA/FDD (1920.0-1980.0 MHz, 20133)  
Band 2, E-UTRA/FDD (1850.0-1910.0 MHz, 20134)  
Band 3, E-UTRA/FDD (1710.0-1785.0 MHz, 20135)  
Band 4, E-UTRA/FDD (1710.0-1755.0 MHz, 20136)  
Band 5, E-UTRA/FDD (824.0-849.0 MHz, 20137)  
Band 6, E-UTRA/FDD (830.0-840.0 MHz, 20138)  
Band 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: 64QAM  
Data Type: UL-SCH  
Number RB: 25  
Transport Block Size: 14112  
TBS Index: 23  
MCS Index: 25  
Data Type: PN9

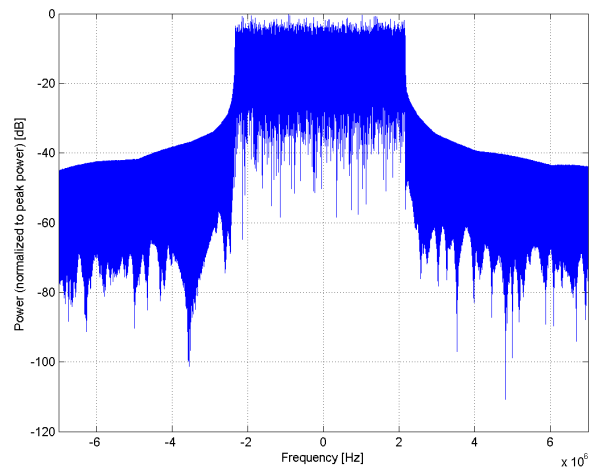
Bandwidth: 10.0 MHz  
Integration Time: 10.0 ms

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

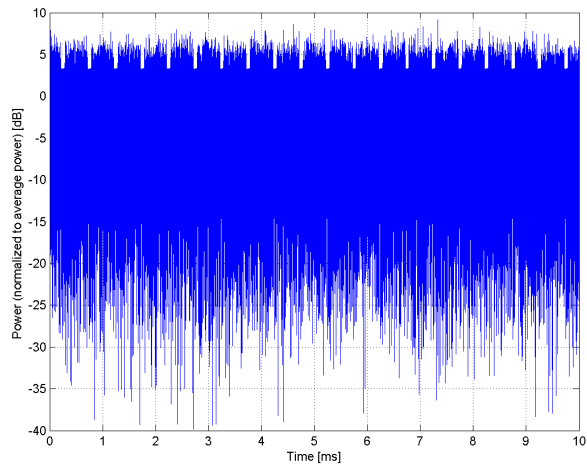
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**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, 50 % RB, 5 MHz, 64-QAM)**

Group: LTE-FDD  
UID: 10159-CAB

PAR: <sup>1</sup> **6.56 dB**  
MIF: <sup>2</sup> **-14.49 dB**

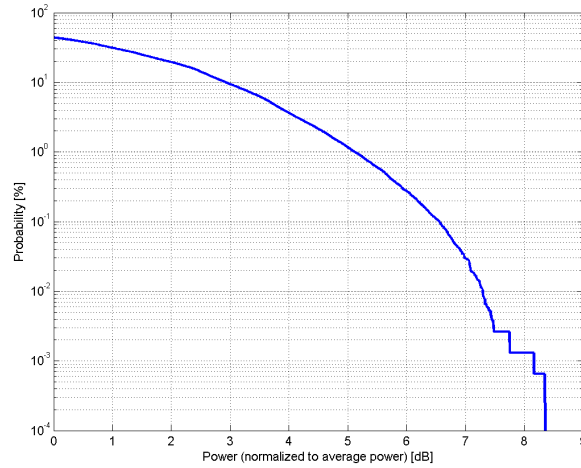
Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0  
3GPP / ETSI TS 136.213 V8.4.0  
FCC OET KDB 941225 D05 SAR for LTE Devices v01  
Category: Random amplitude modulation  
Modulation: 64-QAM  
Frequency Band:

Band 1, 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)

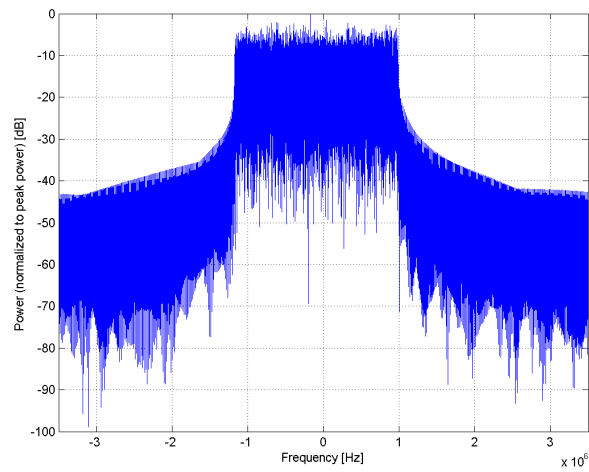
Detailed Specification: Modulation Scheme: SC-FDMA  
Number of PUSCHs: 1  
Settings for Subframe #0 to #9:  
Modulation Scheme: 64QAM  
Data Type: UL-SCH  
Number RB: 12  
Transport Block Size: 6968  
TBS Index: 23  
MCS Index: 25  
Data Type: PN9  
Bandwidth: 5.0 MHz  
Integration Time: 10.0 ms

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

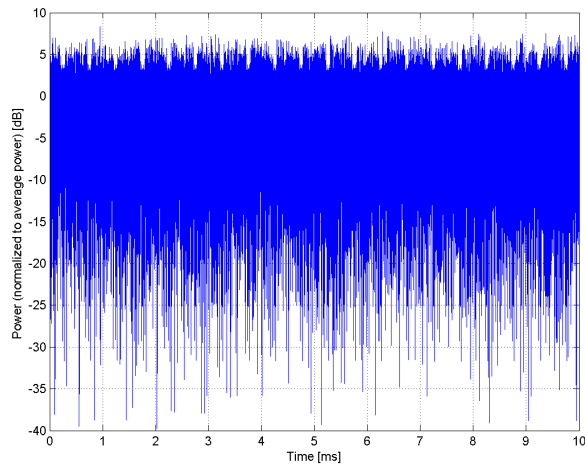
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



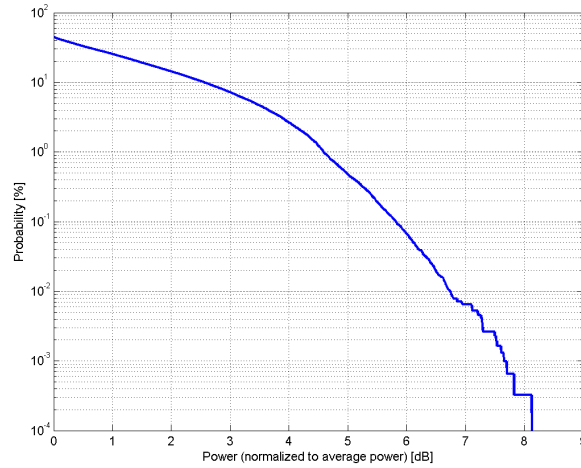
**Time Domain**

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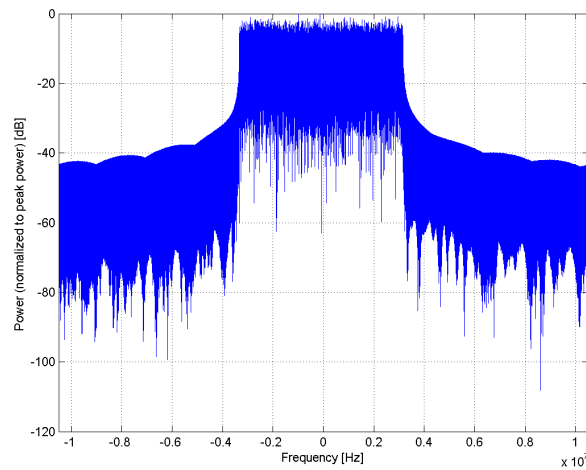
Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 15 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10160-CAB
PAR: <sup>1</sup>	<b>5.82 dB</b>
MIF: <sup>2</sup>	<b>-17.95 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
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 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 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166) Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211) 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: 36 Transport Block Size: 3112 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

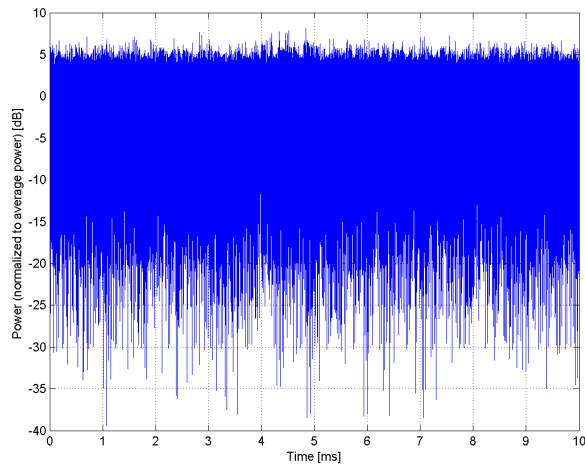
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

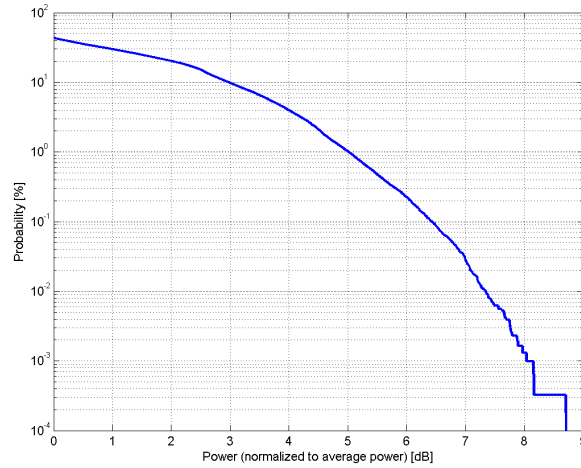


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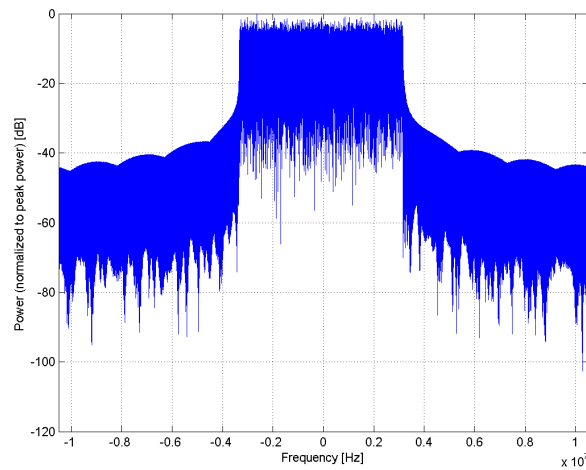
Name:	<b>LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)</b>
Group:	LTE-FDD
UID:	10161-CAB
PAR: <sup>1</sup>	<b>6.43 dB</b>
MIF: <sup>2</sup>	<b>-17.54 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	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 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 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 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166) Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211) 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: 36 Transport Block Size: 10296 TBS Index: 14 MCS Index: 15 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

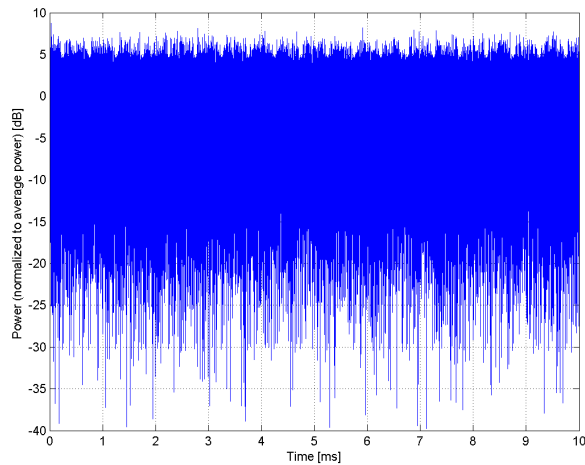
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



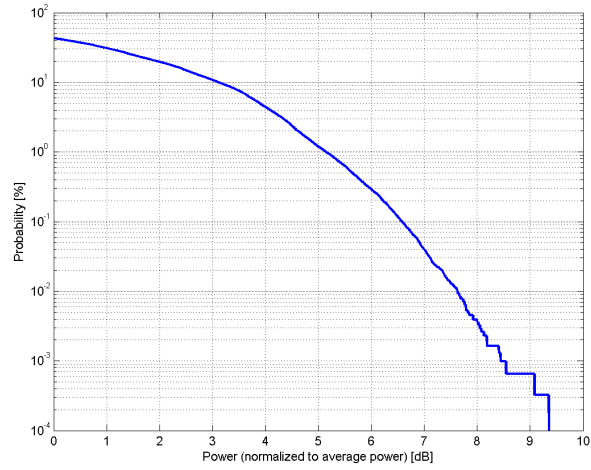
**Time Domain**

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Zeughausstrasse 43, 8004 Zurich, Switzerland

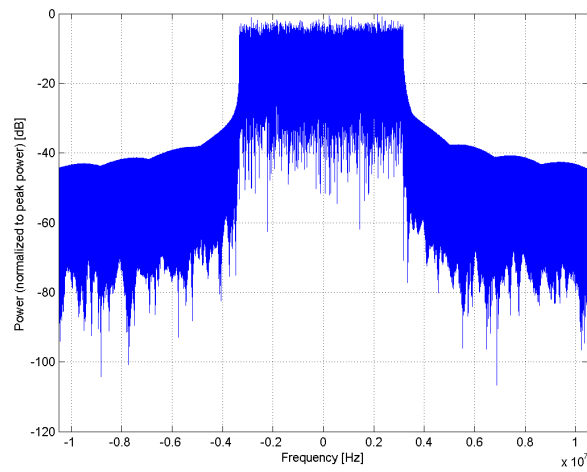
Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 15 MHz, 64-QAM)</b>
Group:	LTE-FDD
UID:	10162-CAB
PAR: <sup>1</sup>	<b>6.58 dB</b>
MIF: <sup>2</sup>	<b>-17.63 dB</b>
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	64-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 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 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 25, E-UTRA/FDD (1850.0-1915.0 MHz, 20166) Band 26 E-UTRA/FDD (814.0-849.0 MHz, 20211) 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: 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

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

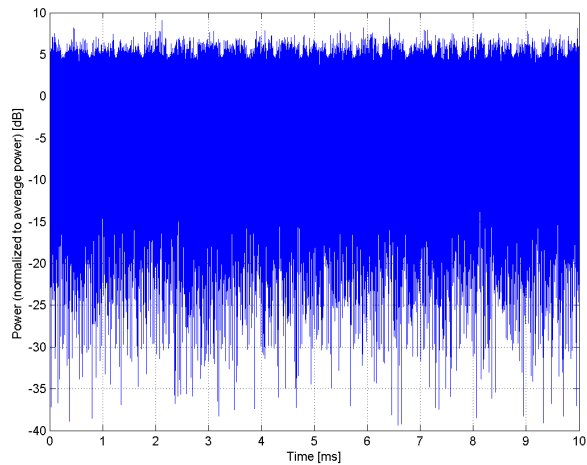
<sup>2</sup> Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



**Complementary Cumulative Distribution Function (CCDF)**



**Frequency Domain**



**Time Domain**

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

Name:	<b>LTE-FDD (SC-FDMA, 50 % RB, 1.4 MHz, QPSK)</b>
Group:	LTE-FDD
UID:	10166-CAB
PAR: <sup>1</sup>	<b>5.46 dB</b>
MIF: <sup>2</sup>	<b>-18.10 dB</b>
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, 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 8, E-UTRA/FDD (880.0-915.0 MHz, 20140) Band 12, E-UTRA/FDD (699.0-716.0 MHz, 20210) Band 23, E-UTRA/FDD (2000.0-2020.0 MHz, 20164) 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)
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

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

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