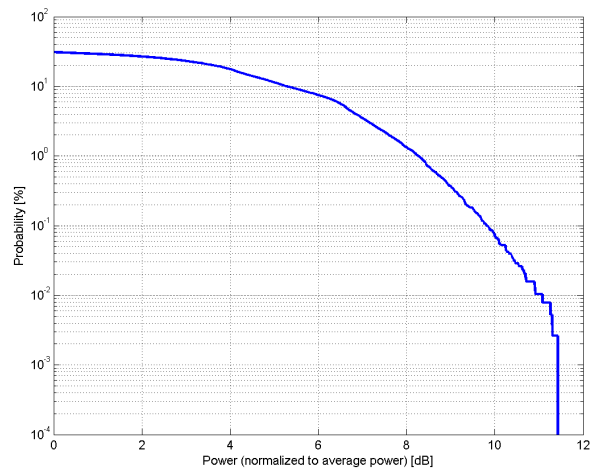


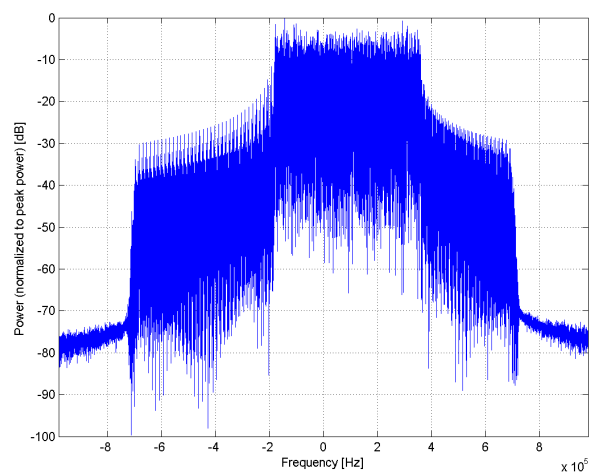
Name:	LTE-TDD (SC-FDMA, 50 % RB, 1.4 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10241-CAA
PAR: ¹	9.82 dB
MIF: ²	-1.58 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

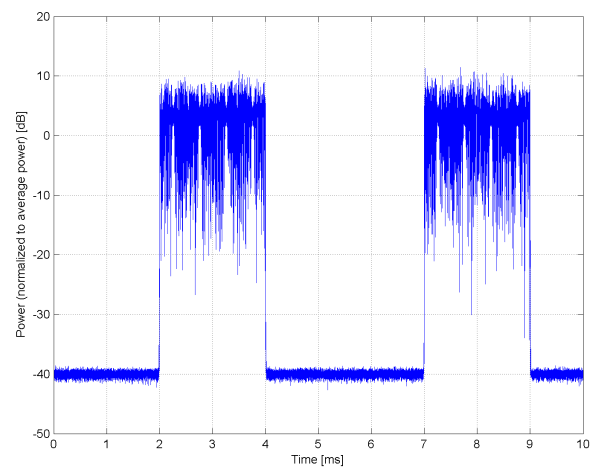
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



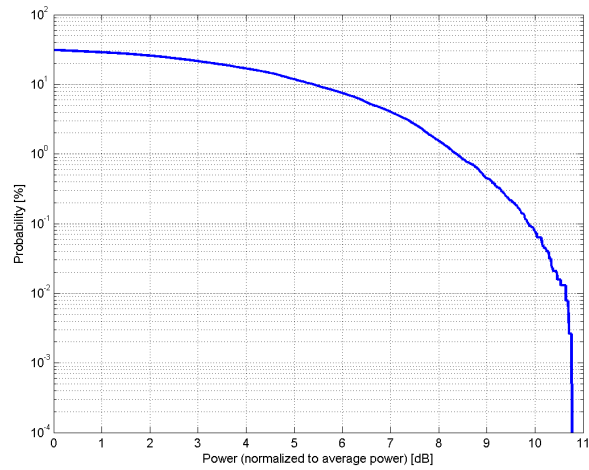
Time Domain

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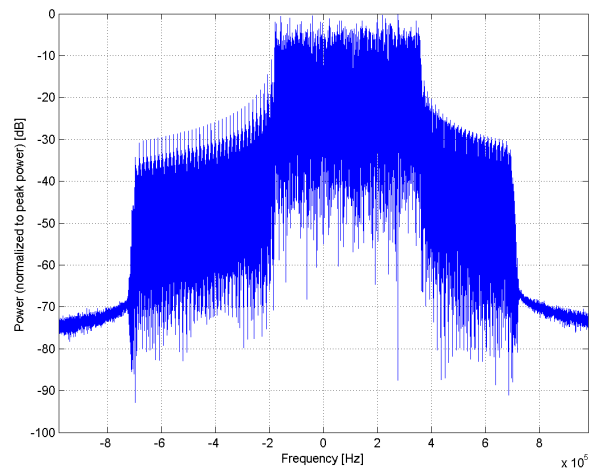
Name:	LTE-TDD (SC-FDMA, 50 % RB, 1.4 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10242-CAA
PAR: ¹	9.86 dB
MIF: ²	-1.57 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150)
Frequency Band:	Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 64QAM Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

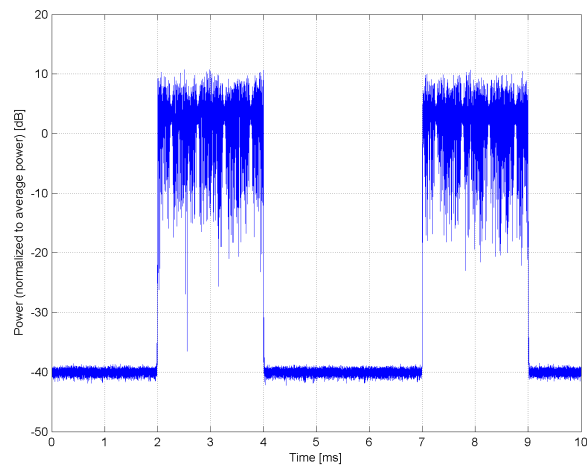
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



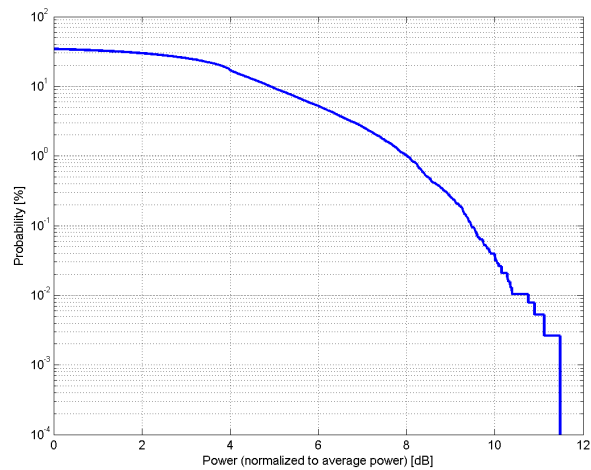
Time Domain

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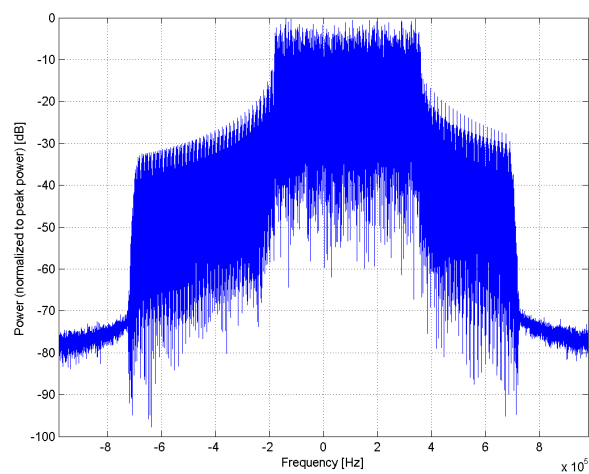
Name:	LTE-TDD (SC-FDMA, 50 % RB, 1.4 MHz, QPSK)
Group:	LTE-TDD
UID:	10243-CAA
PAR: ¹	9.46 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency Band:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

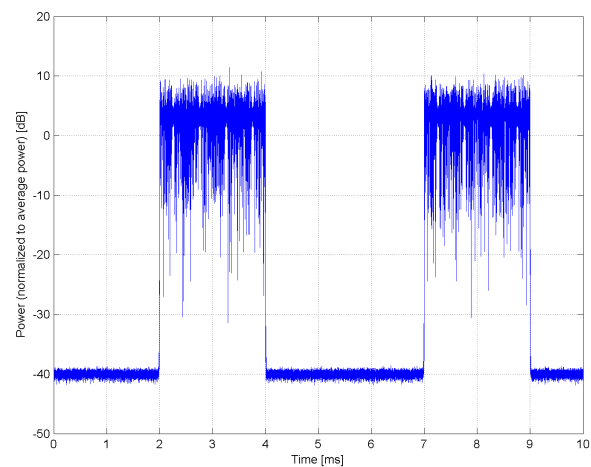
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

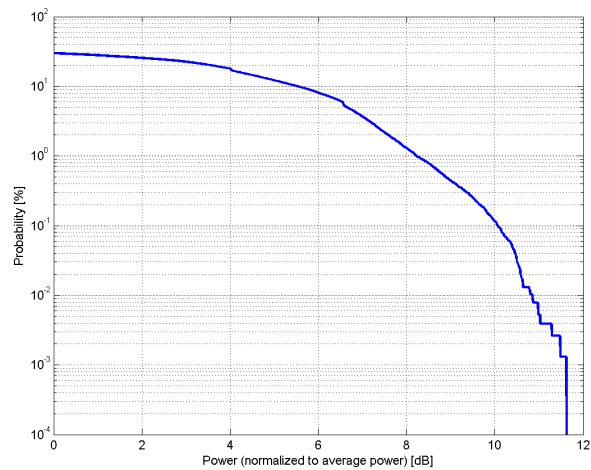


Time Domain

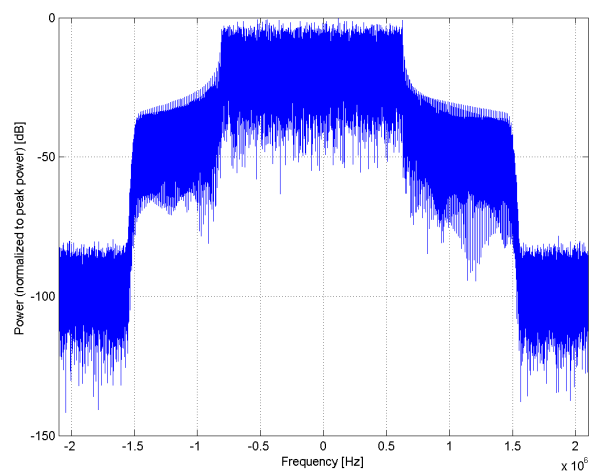
Name:	LTE-TDD (SC-FDMA, 50 % RB, 3 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10244-CAB
PAR: ¹	10.06 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) Band 44, E-UTRA/TDD (703.0-803.0 MHz, 20214)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 8 Start Number of RB: 3 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

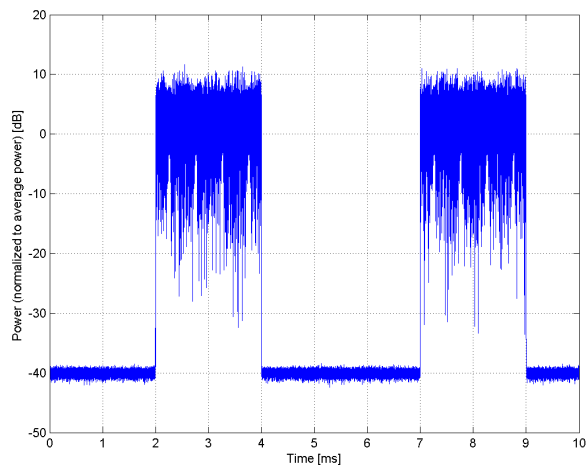
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

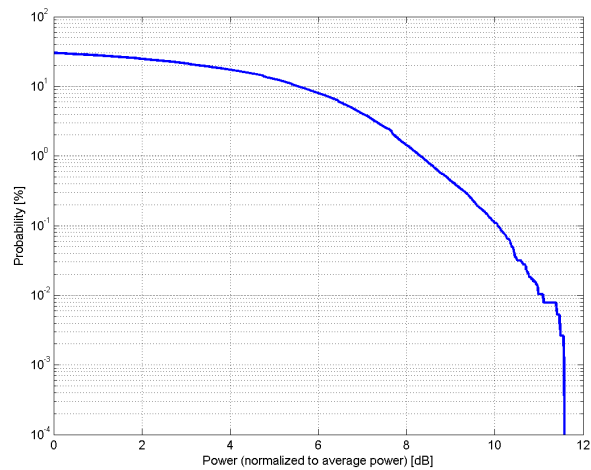


Time Domain

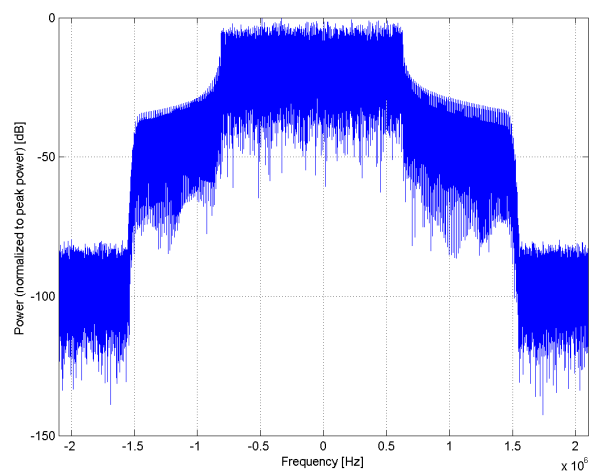
Name:	LTE-TDD (SC-FDMA, 50 % RB, 3 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10245-CAB
PAR: ¹	10.06 dB
MIF: ²	-1.68 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) Band 44, E-UTRA/TDD (703.0-803.0 MHz, 20214)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 64QAM Allocated RB: 8 Start Number of RB: 4 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

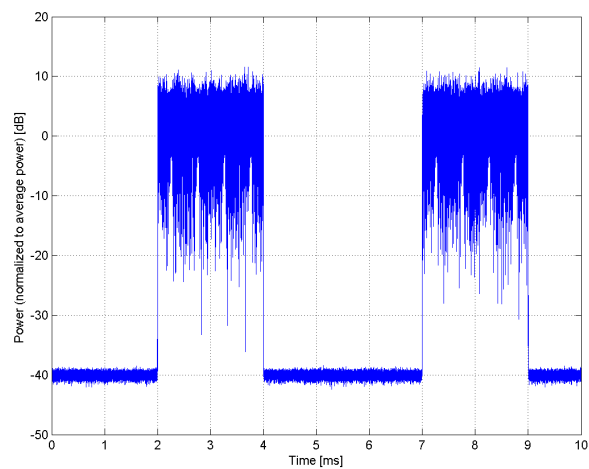
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

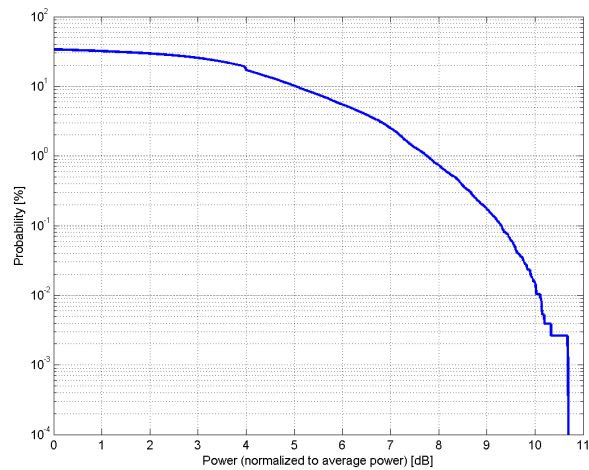


Time Domain

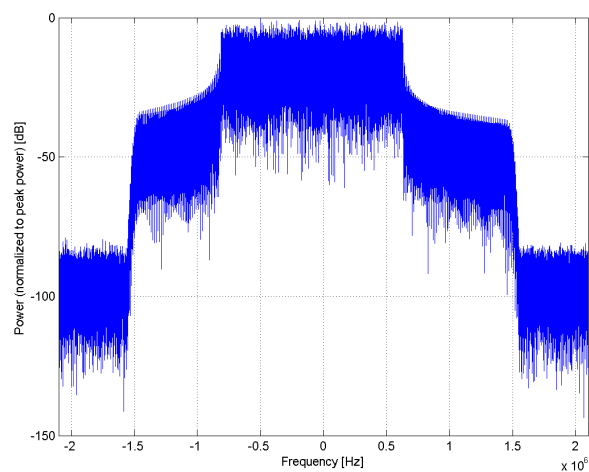
Name:	LTE-TDD (SC-FDMA, 50 % RB, 3 MHz, QPSK)
Group:	LTE-TDD
UID:	10246-CAB
PAR: ¹	9.30 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency Band:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) 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: 8 Start Number of RB: 4 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

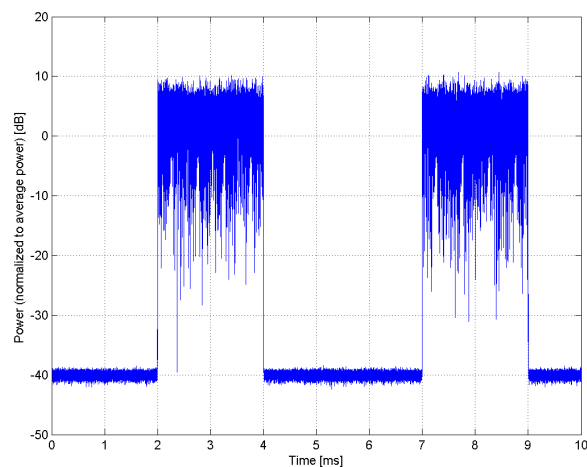
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

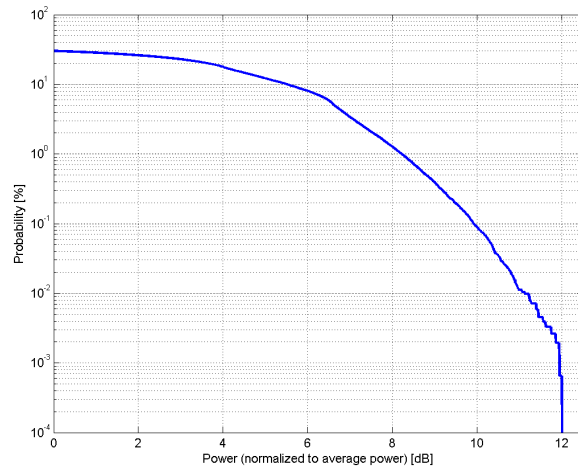


Time Domain

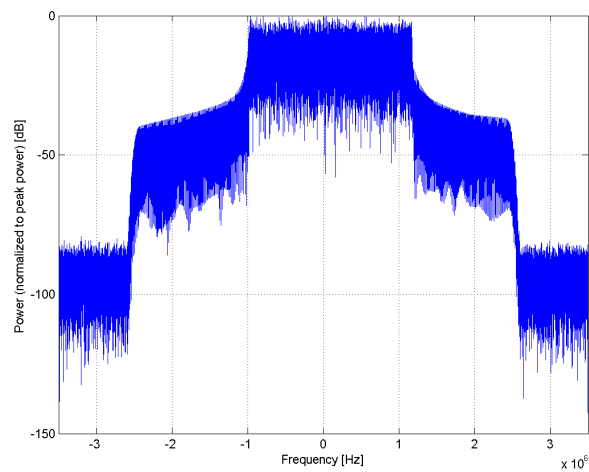
Name:	LTE-TDD (SC-FDMA, 50 % RB, 5 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10247-CAB
PAR: ¹	9.91 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	16-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

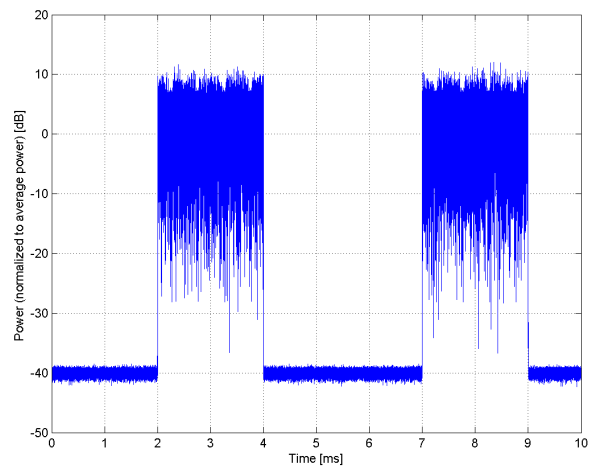
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



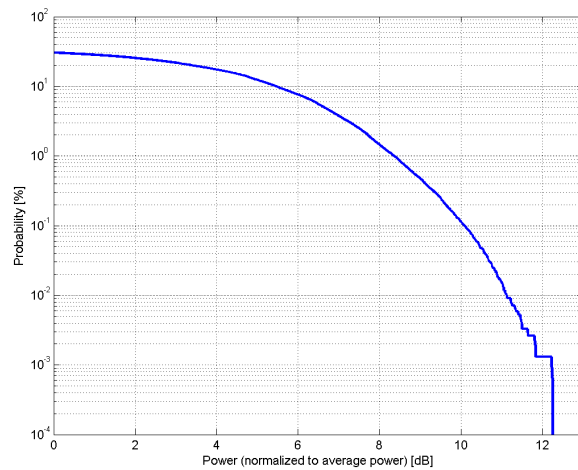
Frequency Domain



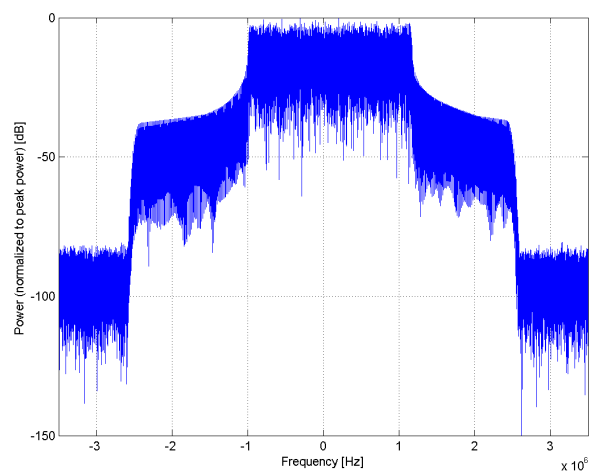
Time Domain

Name:	LTE-TDD (SC-FDMA, 50 % RB, 5 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10248-CAB
PAR: ¹	10.09 dB
MIF: ²	-1.66 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

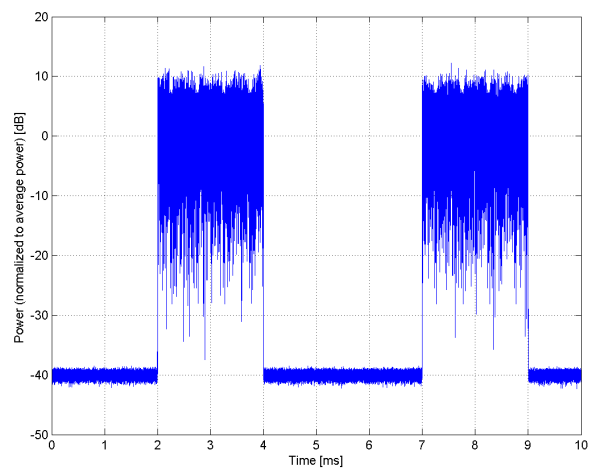
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

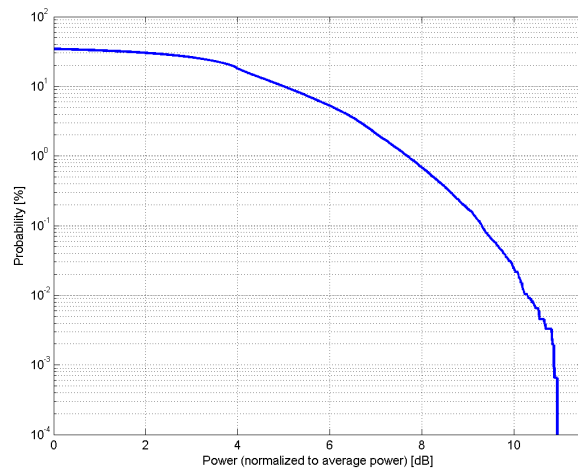


Time Domain

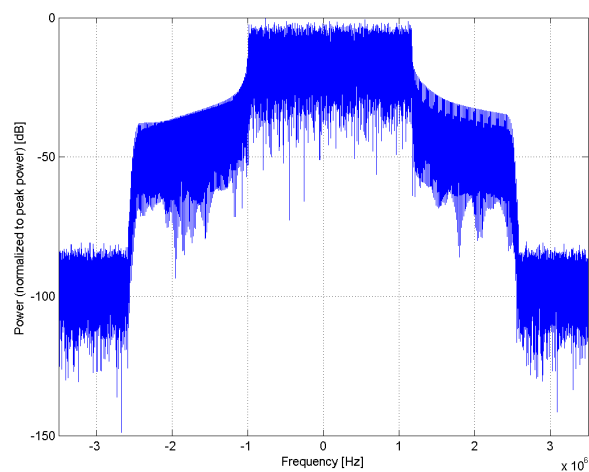
Name:	LTE-TDD (SC-FDMA, 50 % RB, 5 MHz, QPSK)
Group:	LTE-TDD
UID:	10249-CAB
PAR: ¹	9.29 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	QPSK
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

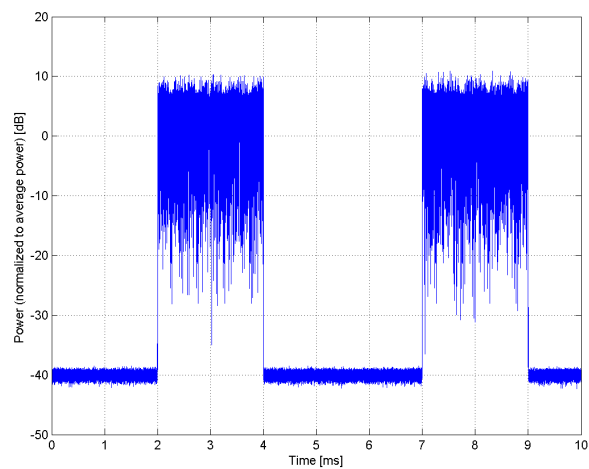
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



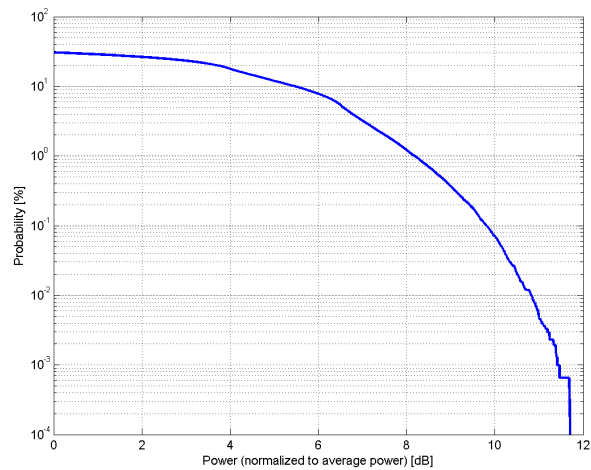
Time Domain

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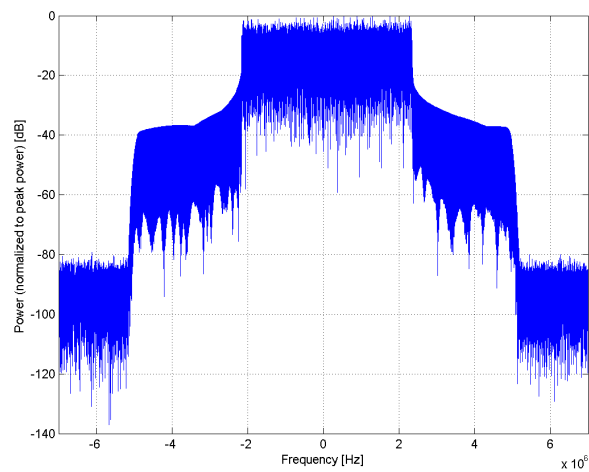
Name:	LTE-TDD (SC-FDMA, 50 % RB, 10 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10250-CAB
PAR: ¹	9.81 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	16-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 25 Start Number of RB: 13 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

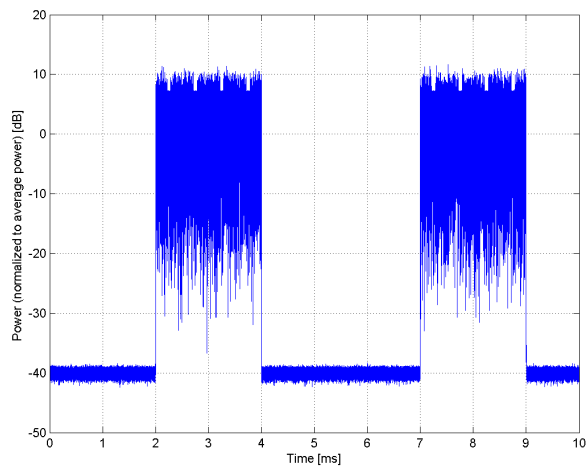
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

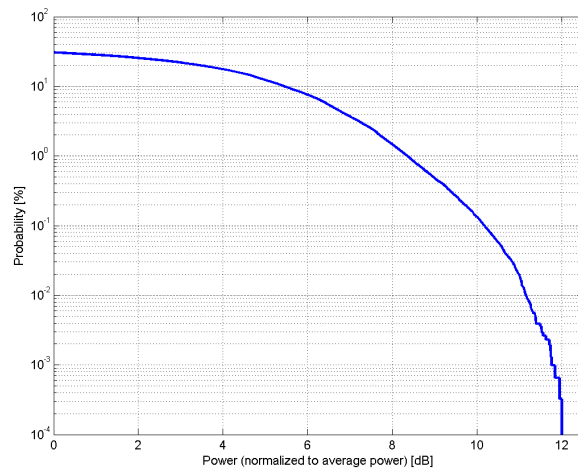


Time Domain

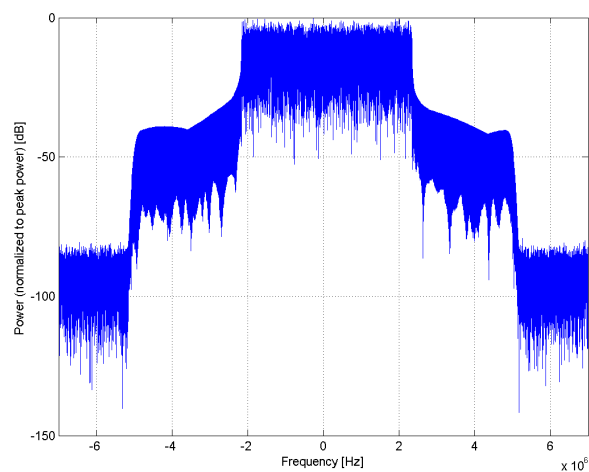
Name:	LTE-TDD (SC-FDMA, 50 % RB, 10 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10251-CAB
PAR: ¹	10.17 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	64-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 25 Start Number of RB: 13 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

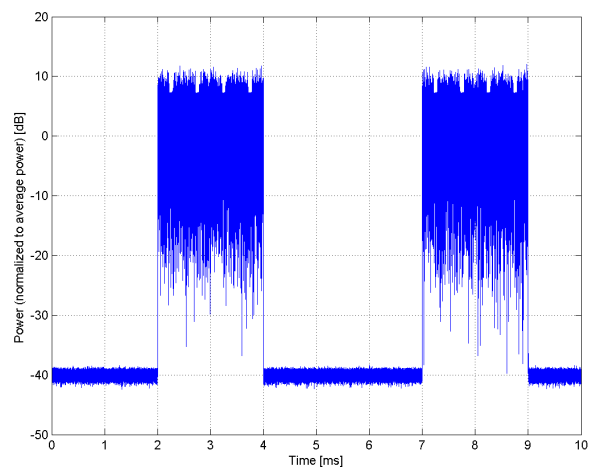
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

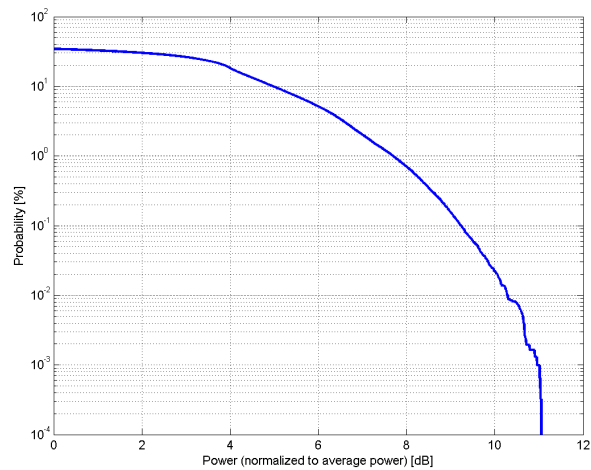


Time Domain

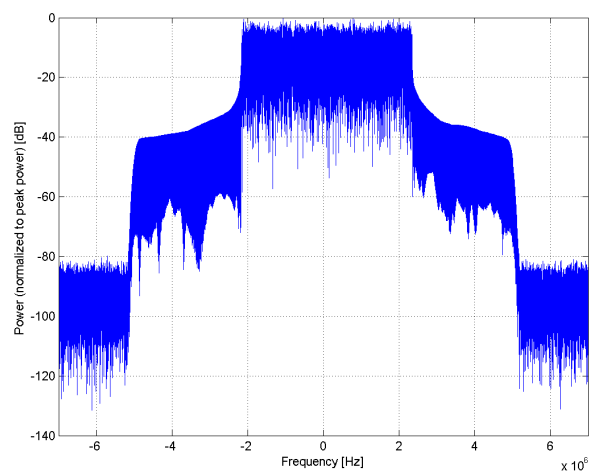
Name:	LTE-TDD (SC-FDMA, 50 % RB, 10 MHz, QPSK)
Group:	LTE-TDD
UID:	10252-CAB
PAR: ¹	9.24 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 25 Start Number of RB: 13 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

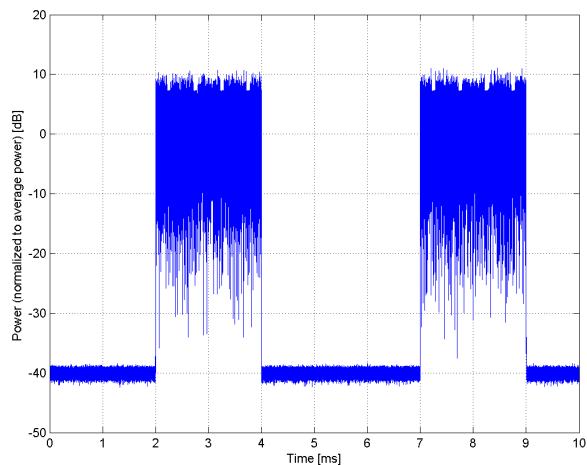
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



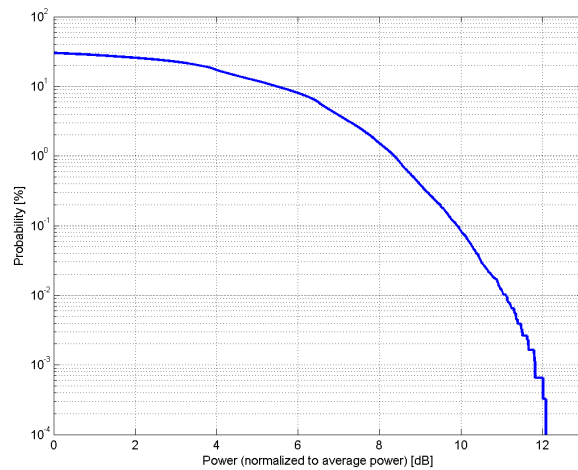
Time Domain

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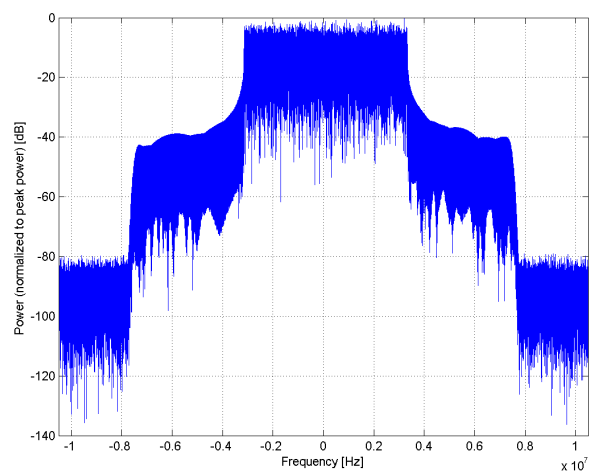
Name:	LTE-TDD (SC-FDMA, 50 % RB, 15 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10253-CAB
PAR: ¹	9.90 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	16-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 36 Start Number of RB: 20 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

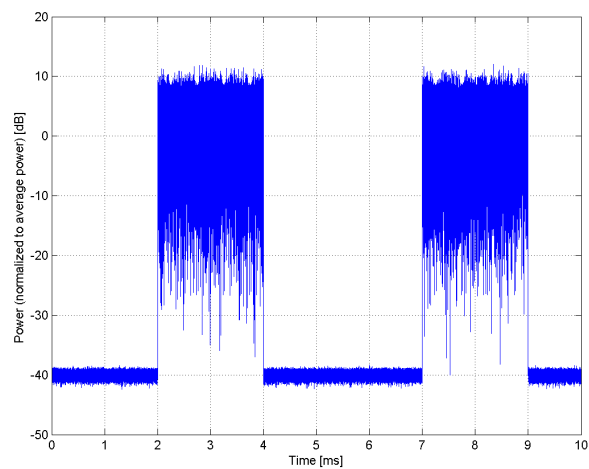
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



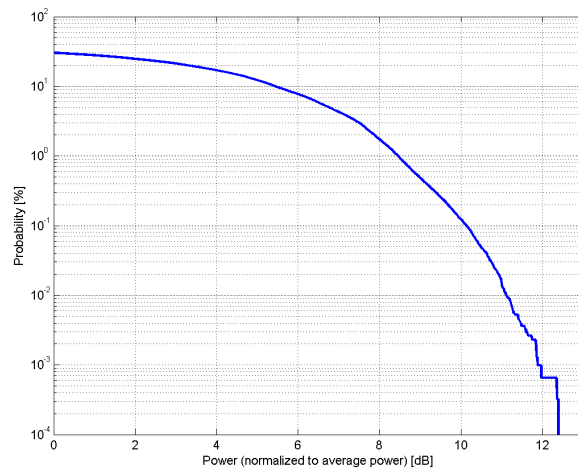
Frequency Domain



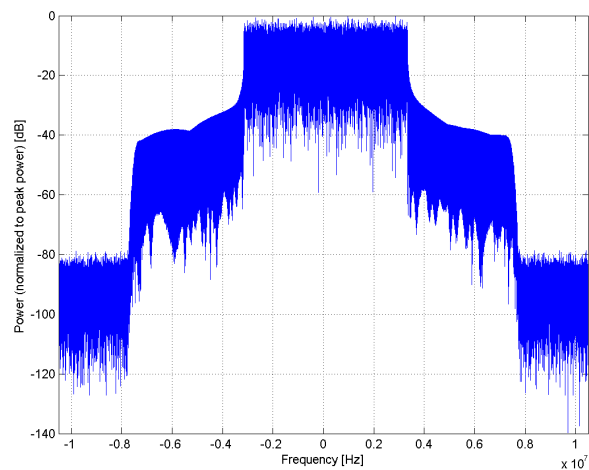
Time Domain

Name:	LTE-TDD (SC-FDMA, 50 % RB, 15 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10254-CAB
PAR: ¹	10.14 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 36 Start Number of RB: 20 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

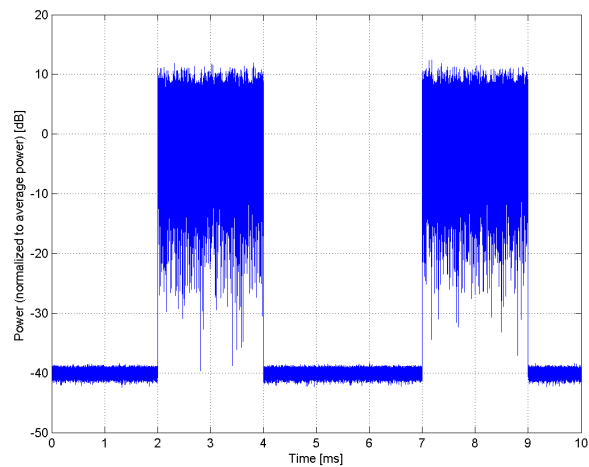
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



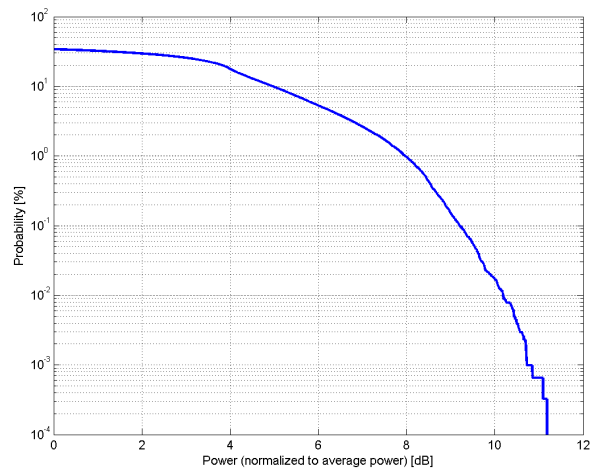
Time Domain

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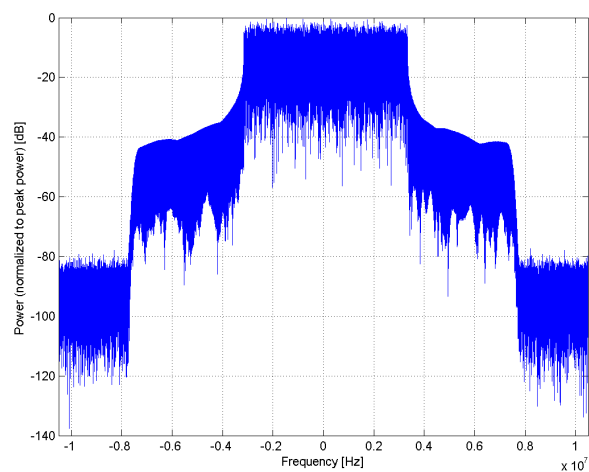
Name:	LTE-TDD (SC-FDMA, 50 % RB, 15 MHz, QPSK)
Group:	LTE-TDD
UID:	10255-CAB
PAR: ¹	9.20 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 36 Start Number of RB: 20 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

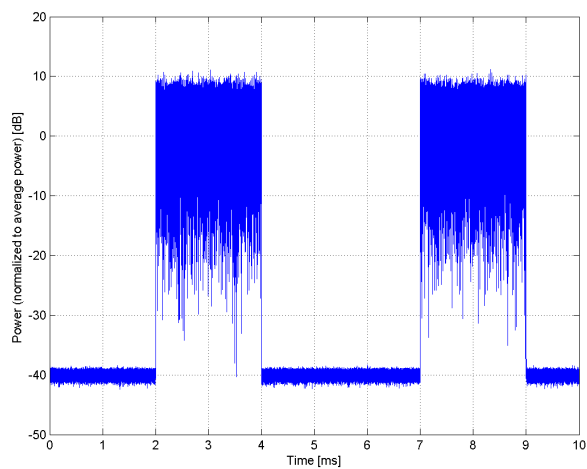
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

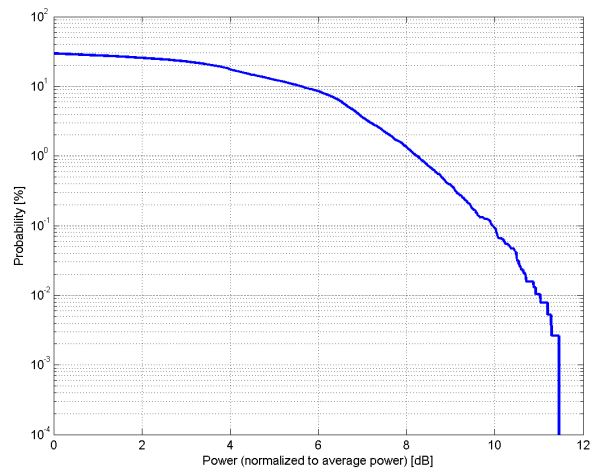


Time Domain

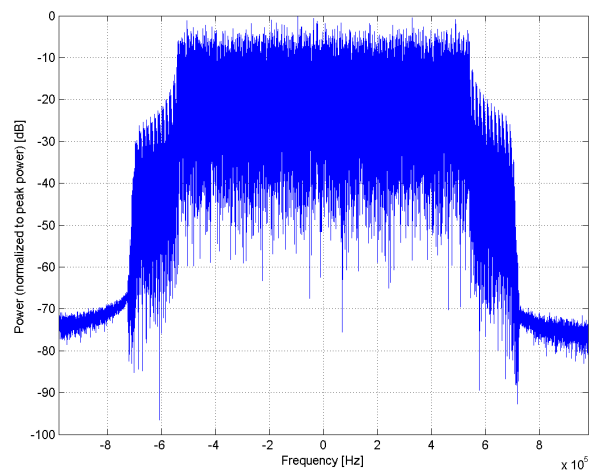
Name:	LTE-TDD (SC-FDMA, 100 % RB, 1.4 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10256-CAA
PAR: ¹	9.96 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 6 Start Number of RB: 0 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

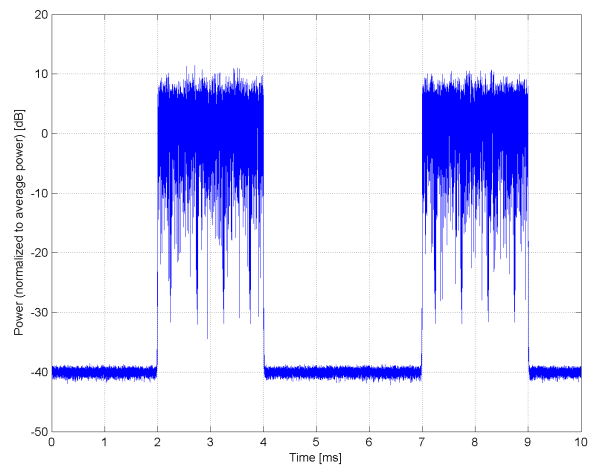
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

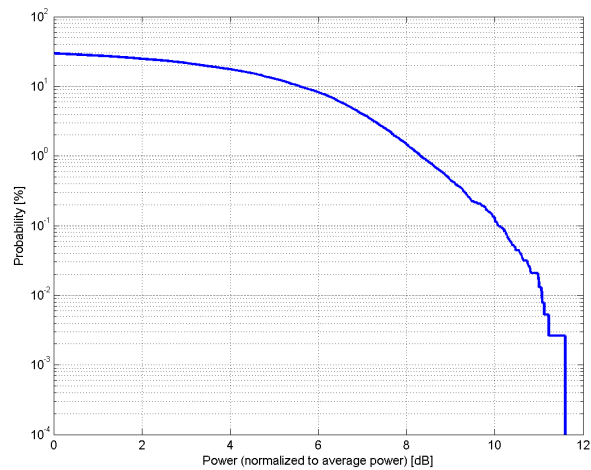


Time Domain

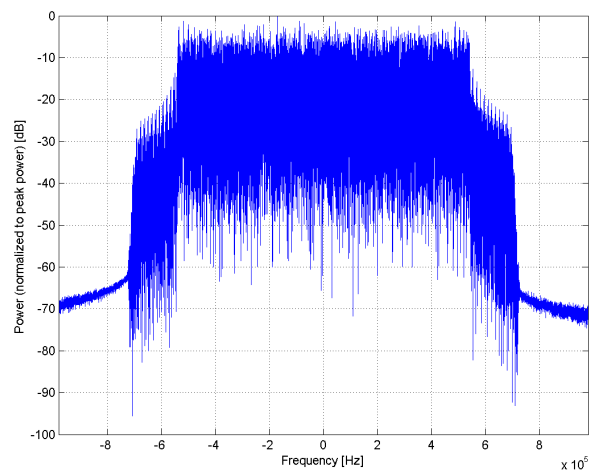
Name:	LTE-TDD (SC-FDMA, 100 % RB, 1.4 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10257-CAA
PAR: ¹	10.08 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 6 Start Number of RB: 0 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

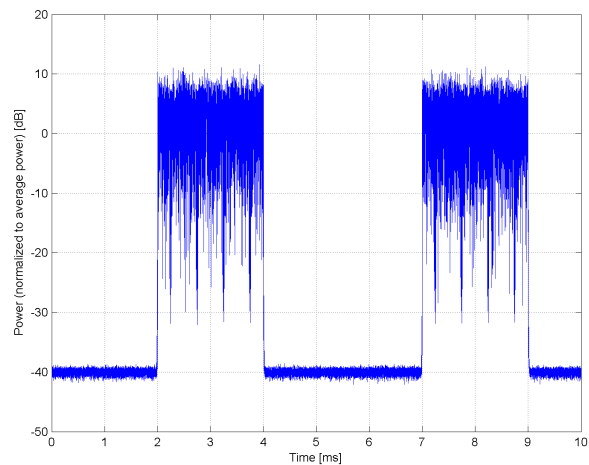
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



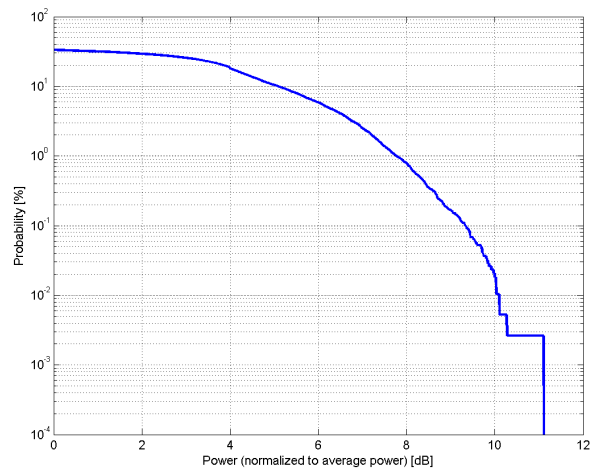
Time Domain

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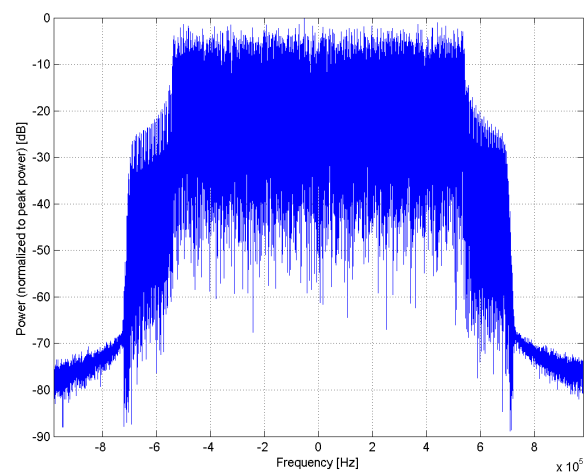
Name:	LTE-TDD (SC-FDMA, 100 % RB, 1.4 MHz, QPSK)
Group:	LTE-TDD
UID:	10258-CAA
PAR: ¹	9.34 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 6 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

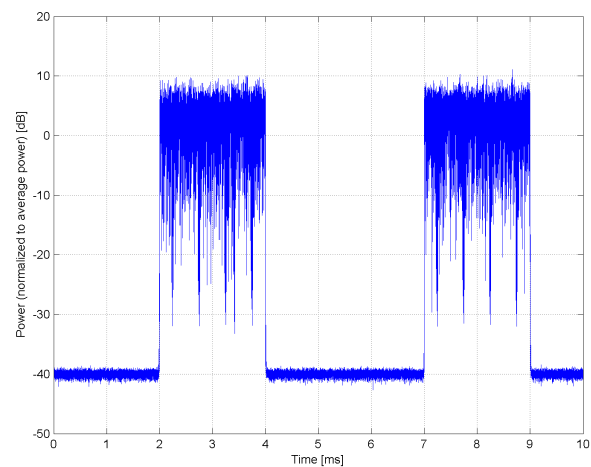
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

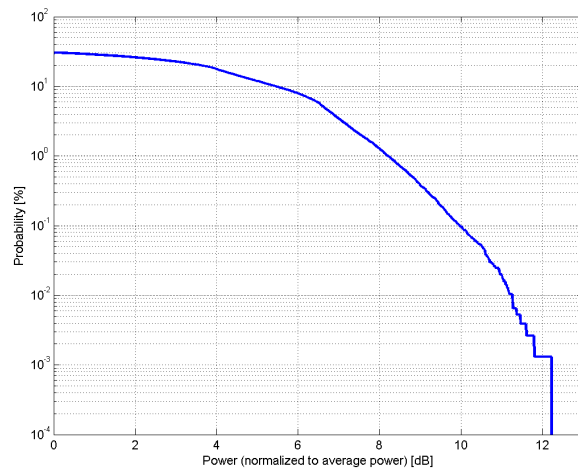


Time Domain

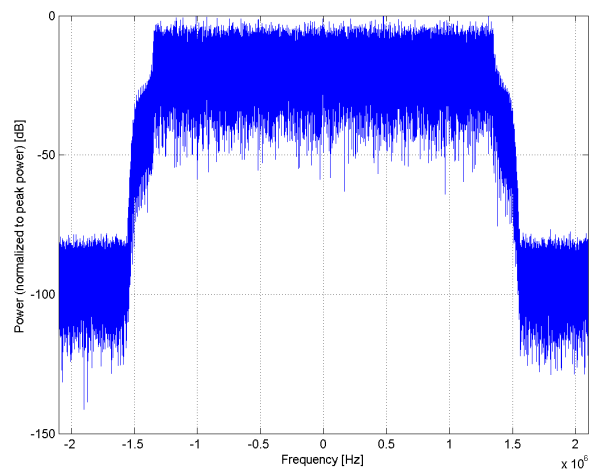
Name:	LTE-TDD (SC-FDMA, 100 % RB, 3 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10259-CAB
PAR: ¹	9.98 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) Band 44, E-UTRA/TDD (703.0-803.0 MHz, 20214)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 16QAM Allocated RB: 15 Start Number of RB: 0 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

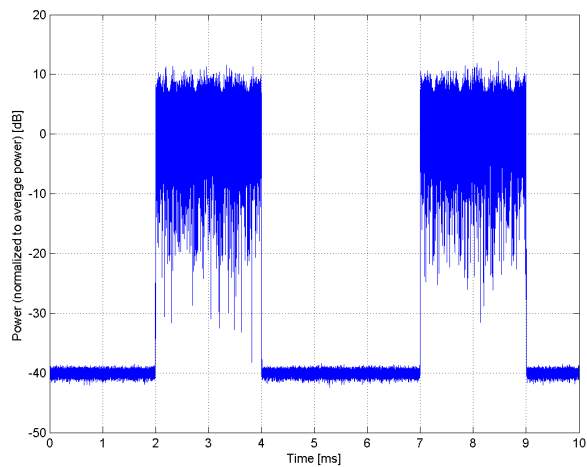
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

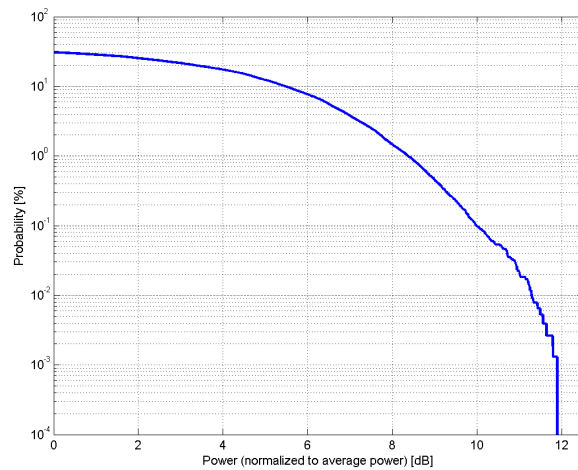


Time Domain

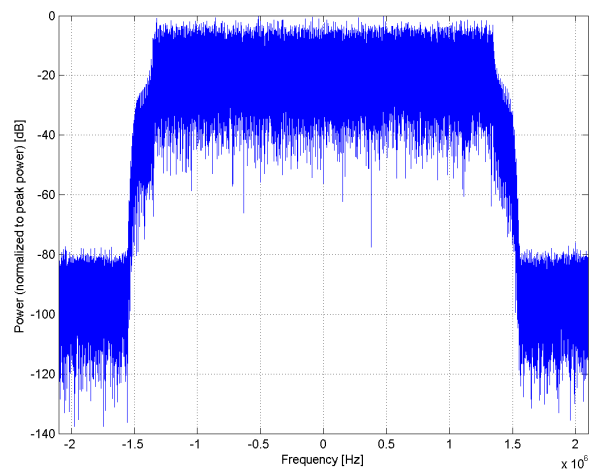
Name:	LTE-TDD (SC-FDMA, 100 % RB, 3 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10260-CAB
PAR: ¹	9.97 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) Band 44, E-UTRA/TDD (703.0-803.0 MHz, 20214)
Frequency Band:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 1 Special Subframe configuration: 4 Number of Frames: 1 Settings for UL Subframe 2,3,7,8: Number of PUSCHs: 1 Modulation Scheme: 64QAM Allocated RB: 15 Start Number of RB: 0 Data Type: PN9fix
Detailed Specification:	
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

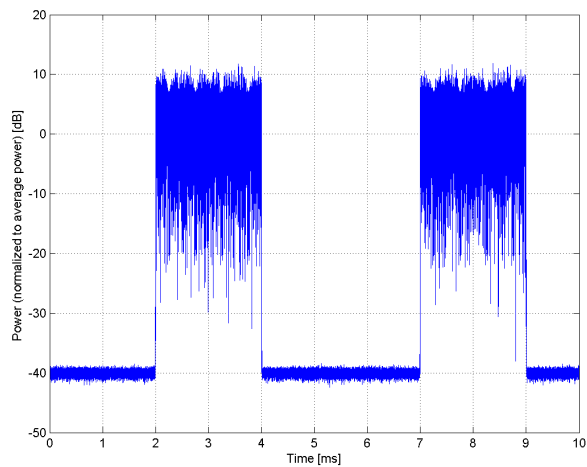
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

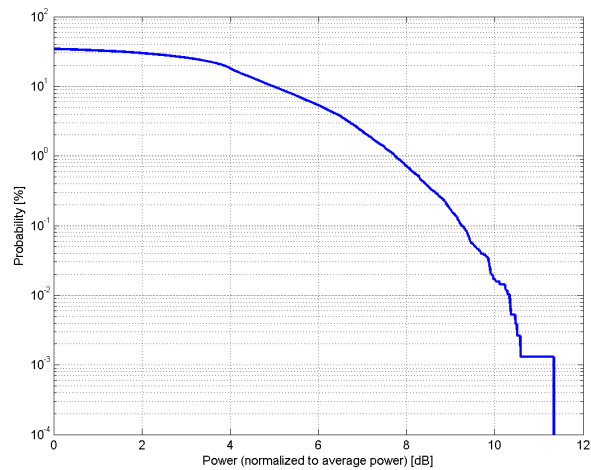


Time Domain

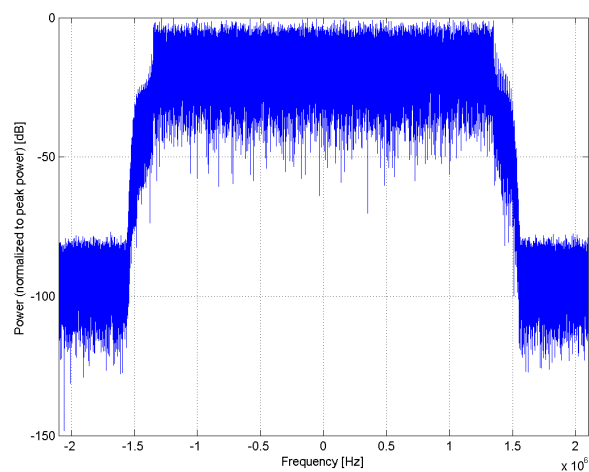
Name:	LTE-TDD (SC-FDMA, 100 % RB, 3 MHz, QPSK)
Group:	LTE-TDD
UID:	10261-CAB
PAR: ¹	9.24 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency Band:	Band 35, E-UTRA/TDD (1850.0-1910.0 MHz, 20150) Band 36, E-UTRA/TDD (1930.0-1990.0 MHz, 20151) 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: 15 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

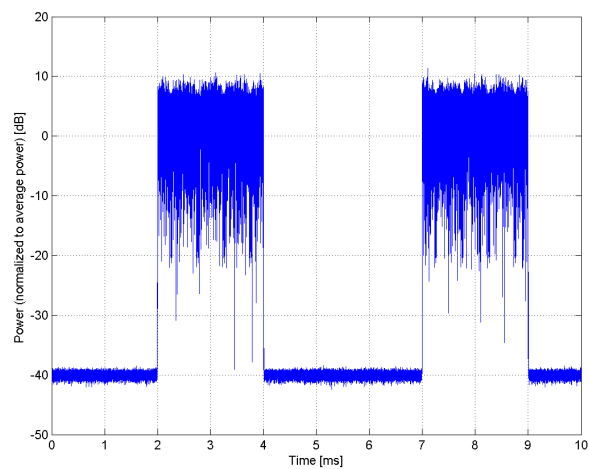
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

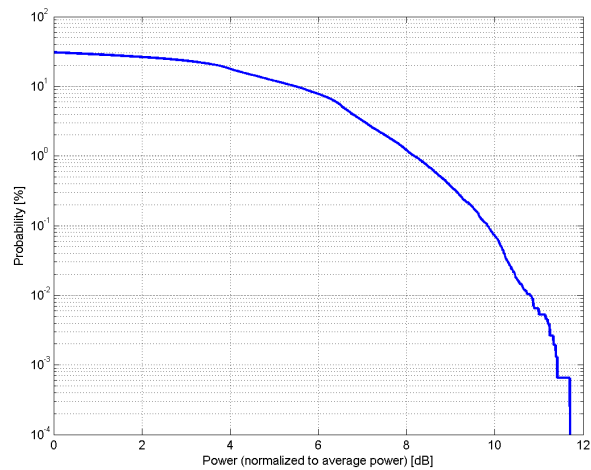


Time Domain

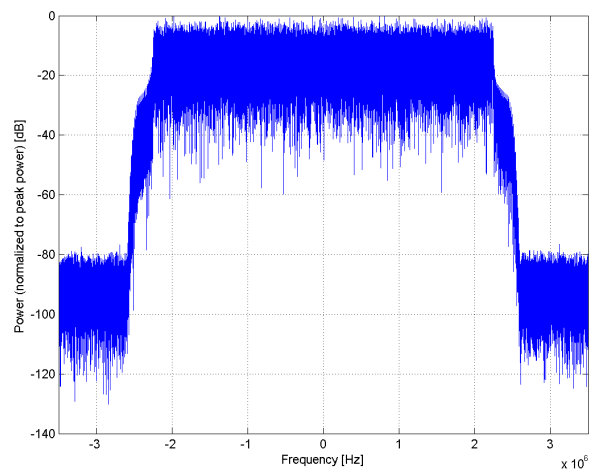
Name:	LTE-TDD (SC-FDMA, 100 % RB, 5 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10262-CAB
PAR: ¹	9.83 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	16-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 16-QAM Allocated RB: 25 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

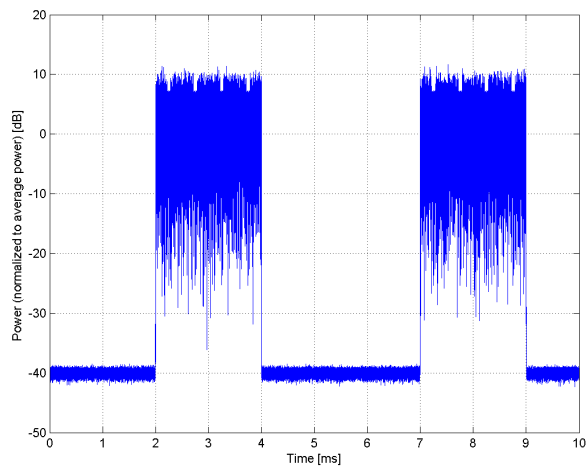
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

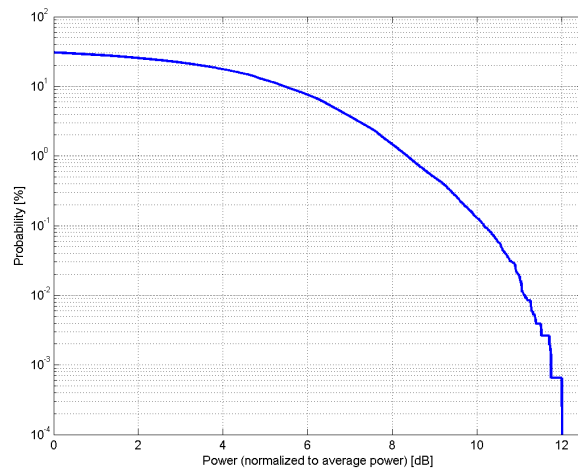


Time Domain

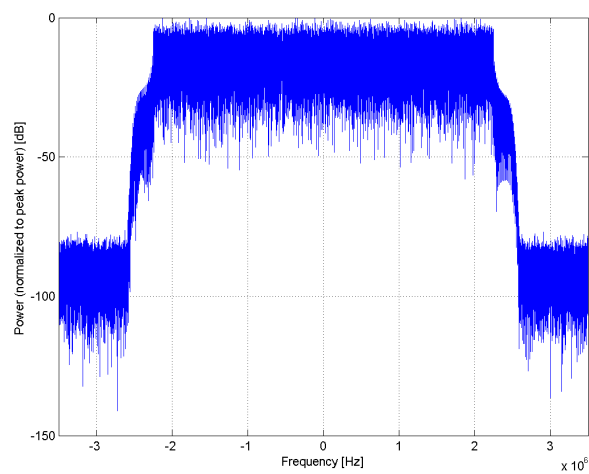
Name:	LTE-TDD (SC-FDMA, 100 % RB, 5 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10263-CAB
PAR: ¹	10.16 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	64-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 25 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

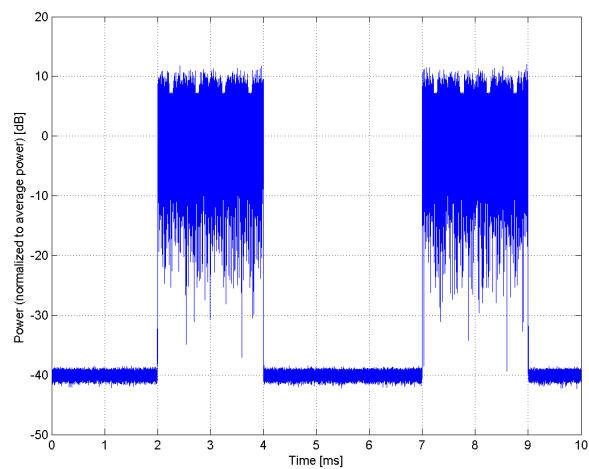
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

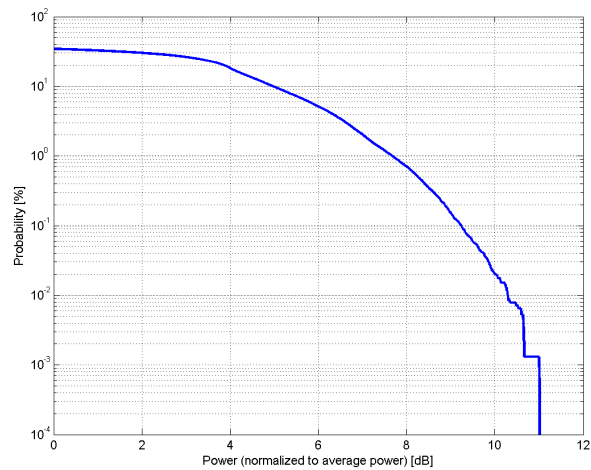


Time Domain

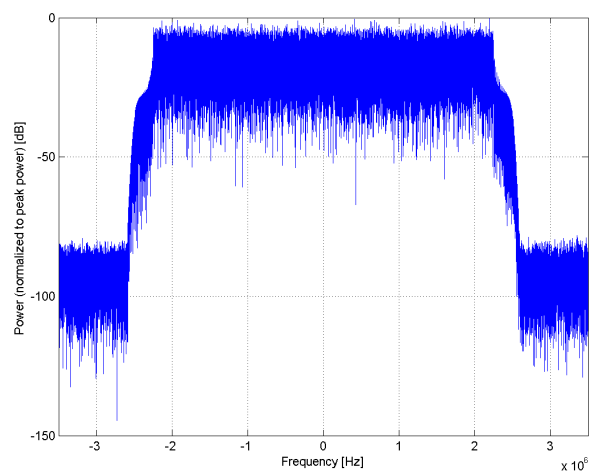
Name:	LTE-TDD (SC-FDMA, 100 % RB, 5 MHz, QPSK)
Group:	LTE-TDD
UID:	10264-CAB
PAR: ¹	9.23 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 25 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

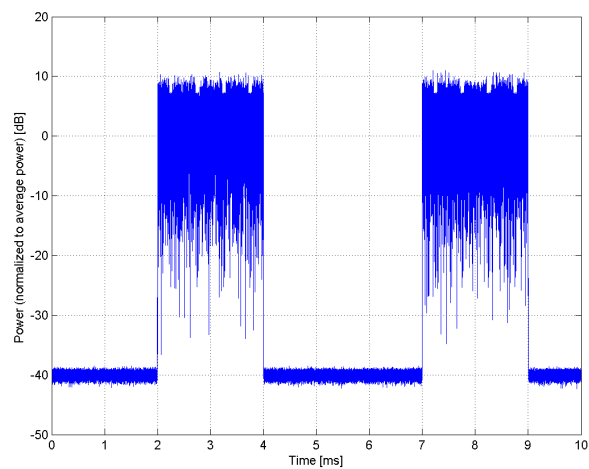
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

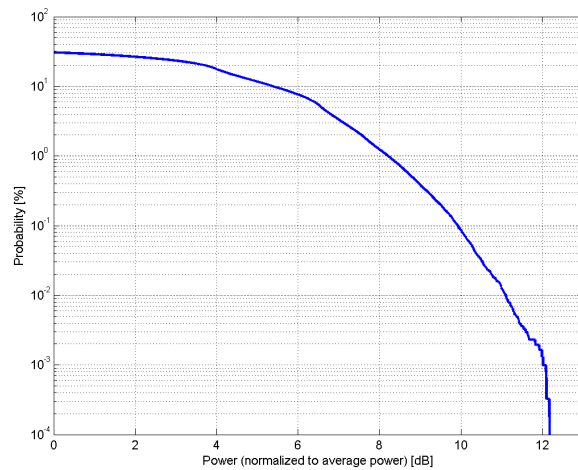


Time Domain

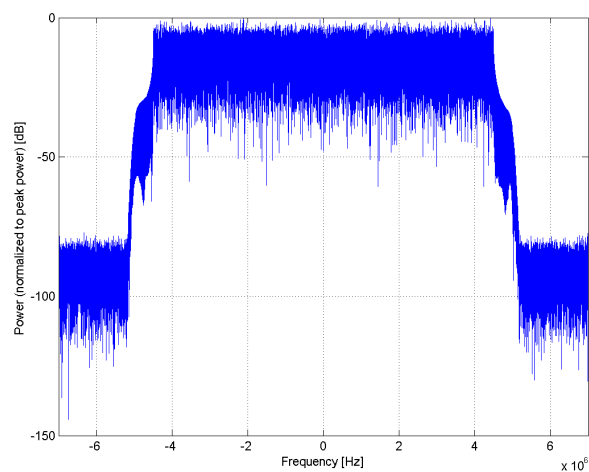
Name:	LTE-TDD (SC-FDMA, 100 % RB, 10 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10265-CAB
PAR: ¹	9.92 dB
MIF: ²	-1.66 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	16-QAM
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 0 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

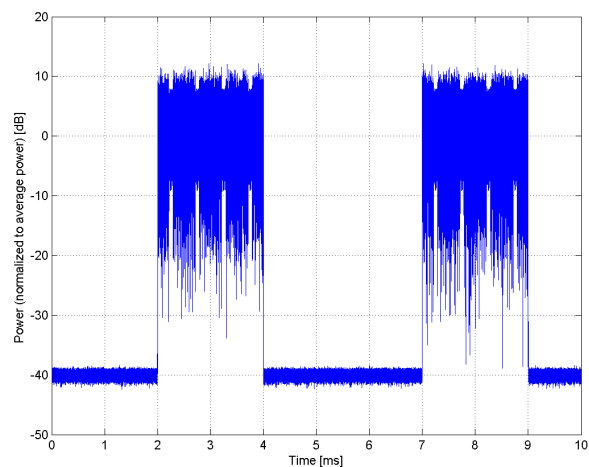
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

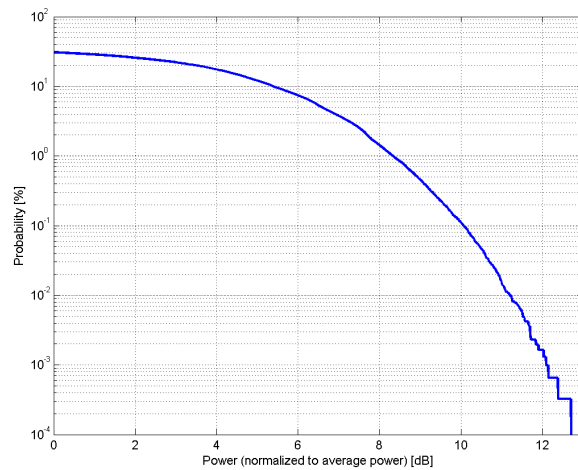


Time Domain

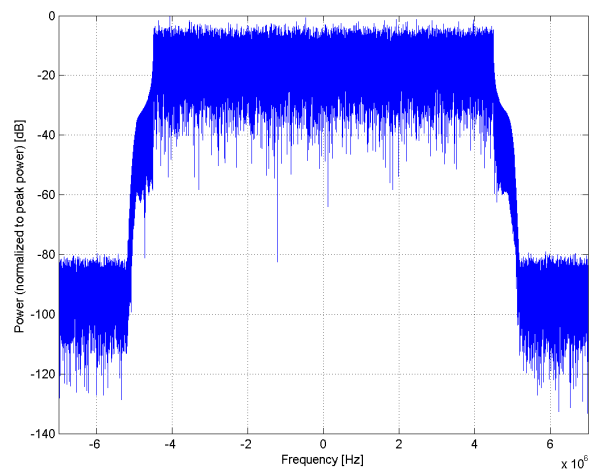
Name:	LTE-TDD (SC-FDMA, 100 % RB, 10 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10266-CAB
PAR: ¹	10.07 dB
MIF: ²	-1.66 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 0 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

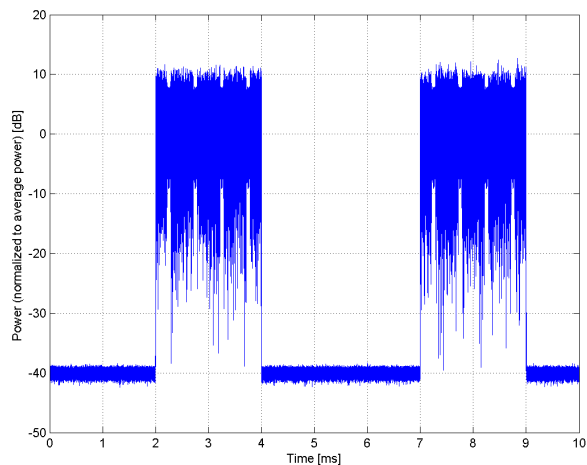
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

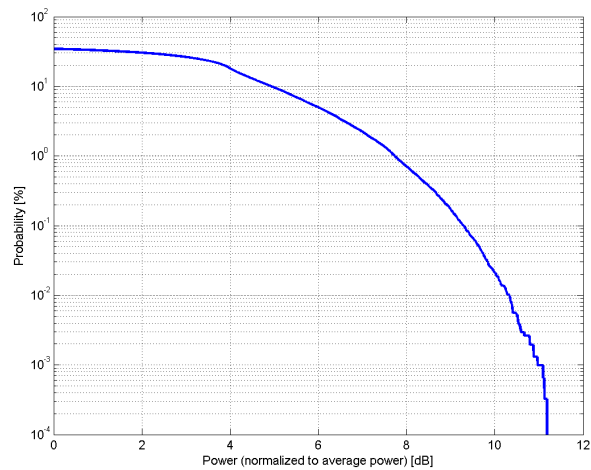


Time Domain

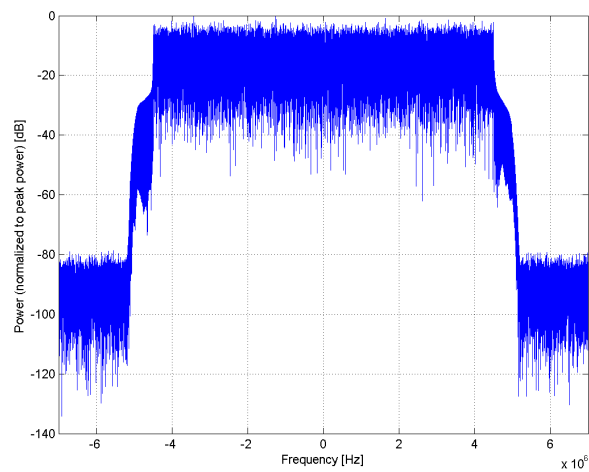
Name:	LTE-TDD (SC-FDMA, 100 % RB, 10 MHz, QPSK)
Group:	LTE-TDD
UID:	10267-CAB
PAR: ¹	9.30 dB
MIF: ²	-1.64 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	
Modulation:	QPSK
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 0 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

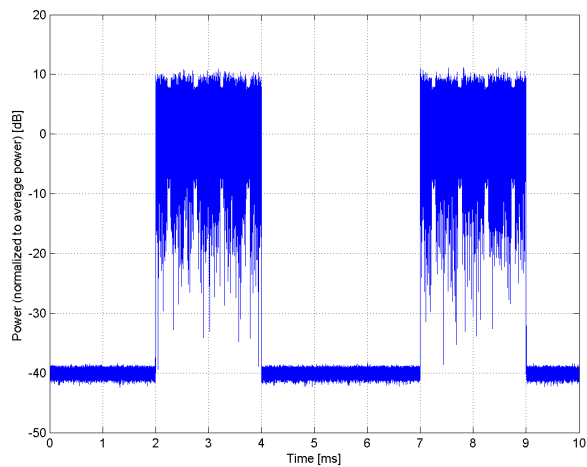
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

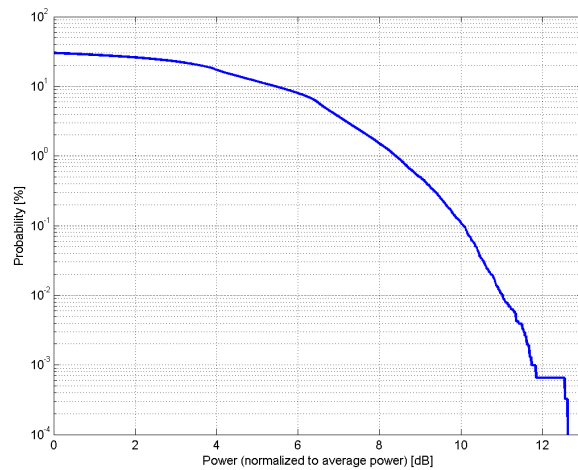


Time Domain

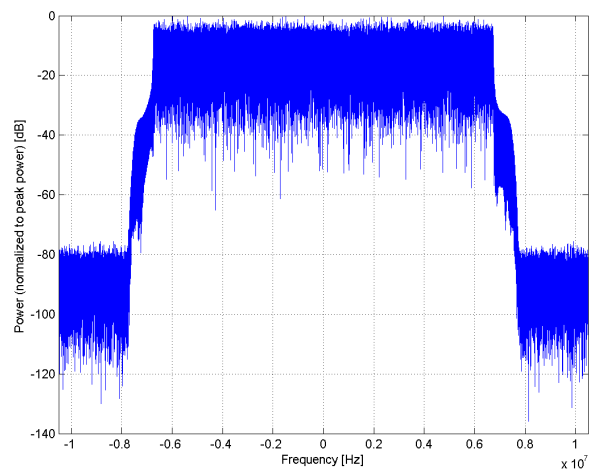
Name:	LTE-TDD (SC-FDMA, 100 % RB, 15 MHz, 16-QAM)
Group:	LTE-TDD
UID:	10268-CAB
PAR: ¹	10.06 dB
MIF: ²	-1.67 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

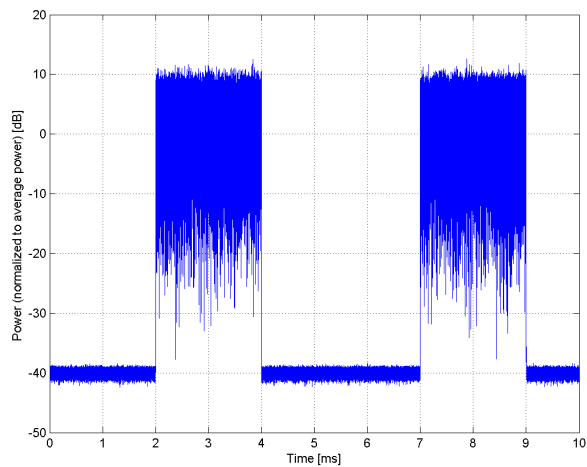
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

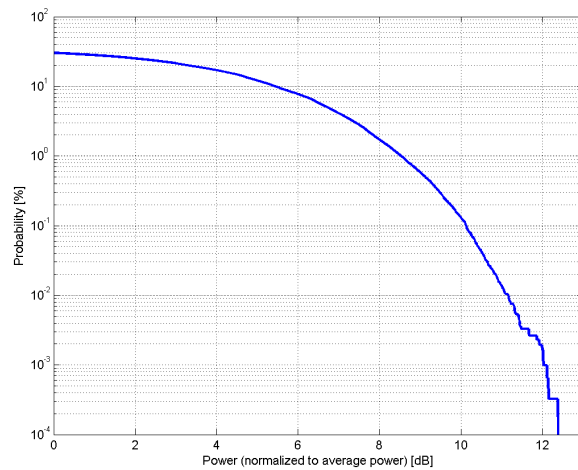


Time Domain

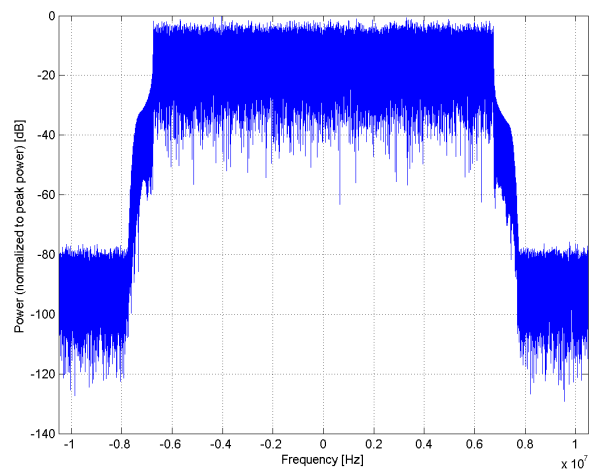
Name:	LTE-TDD (SC-FDMA, 100 % RB, 15 MHz, 64-QAM)
Group:	LTE-TDD
UID:	10269-CAB
PAR: ¹	10.13 dB
MIF: ²	-1.69 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

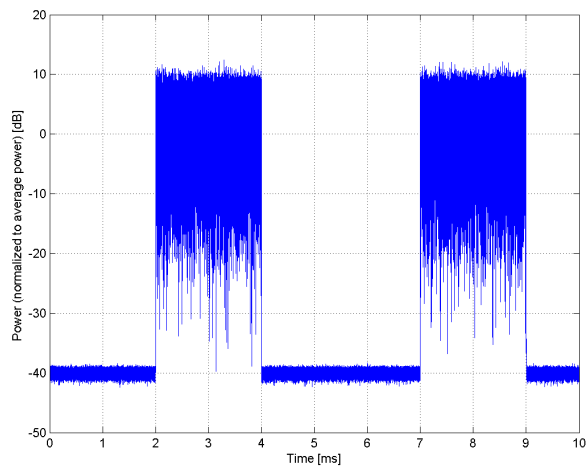
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

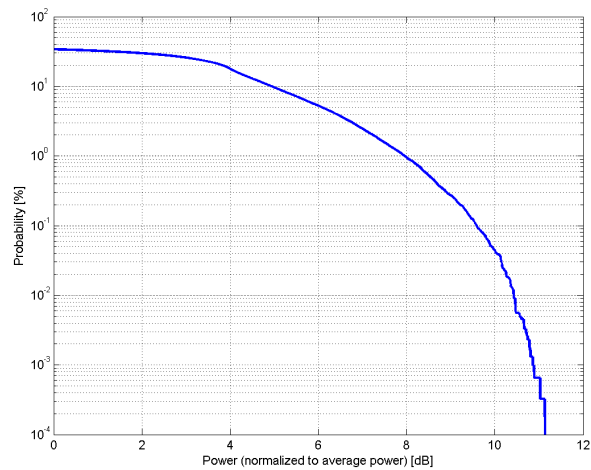


Time Domain

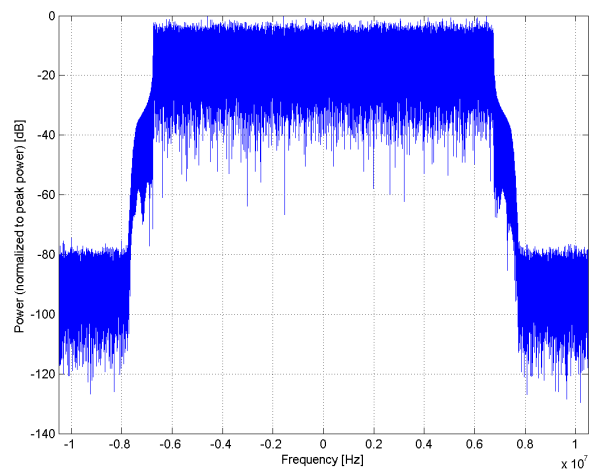
Name:	LTE-TDD (SC-FDMA, 100 % RB, 15 MHz, QPSK)
Group:	LTE-TDD
UID:	10270-CAB
PAR: ¹	9.58 dB
MIF: ²	-1.65 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	
Frequency Band:	Band 33, E-UTRA/TDD (1900.0-1920.0 MHz, 20148) Band 34, E-UTRA/TDD (2010.0-2025.0 MHz, 20149) 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: 75 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

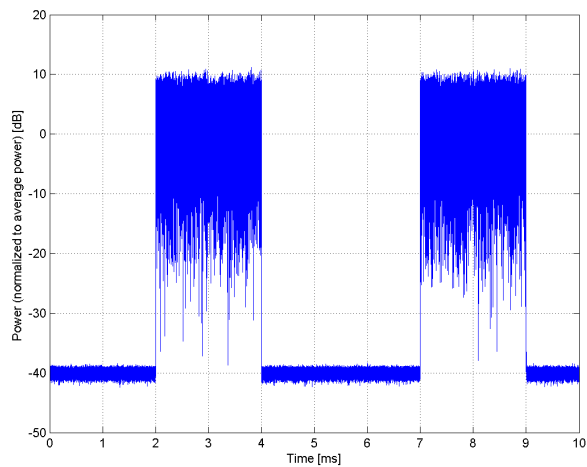
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **MRI (Square, 20ms, 1.0ms)**

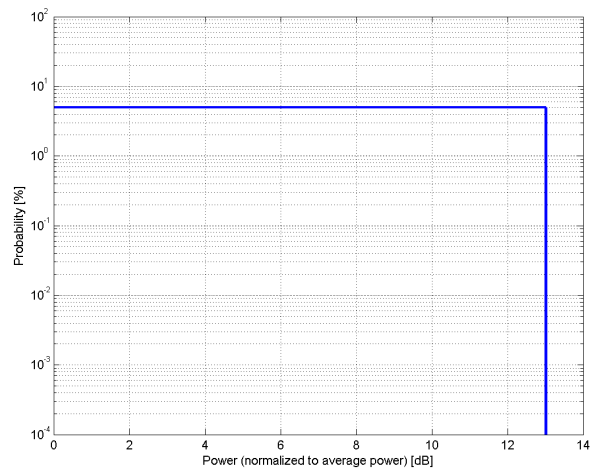
Group: MRI
UID: 10272-CAA

PAR: ¹ **13.01 dB**
MIF: ² **-99.00 dB**

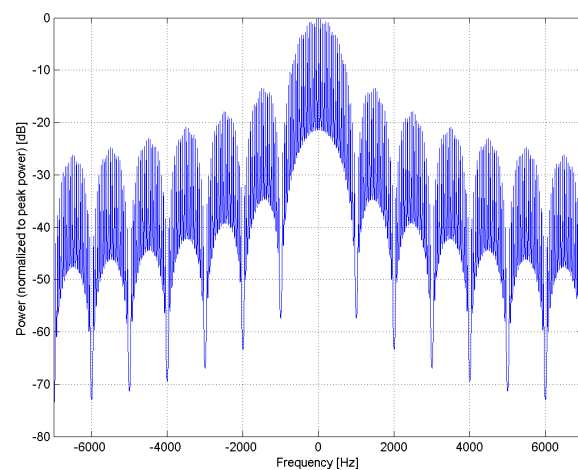
Standard Reference: SPEAG
Category: Periodic pulsed modulation
Modulation: AM
Frequency Band: MRI 1.5T (59.0-69.0 MHz, 20063)
MRI 3T (123.0-133.0 MHz, 20064)
Detailed Specification: Calibration Sequence for Medical Implant Test System (MITS)
Pulse Shape: rectangular
Repetition Rate: 50 Hz
Duty Cycle: 5 %
Bandwidth: 0.0 MHz
Integration Time: 20.0 ms

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

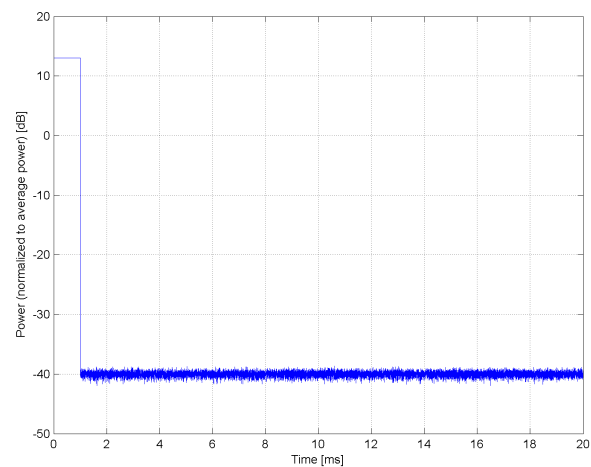
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

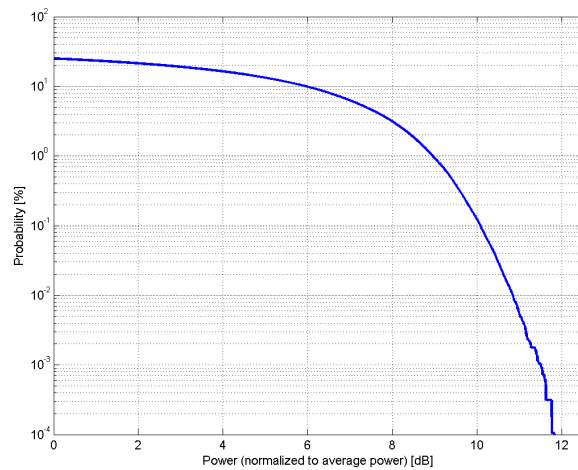


Time Domain

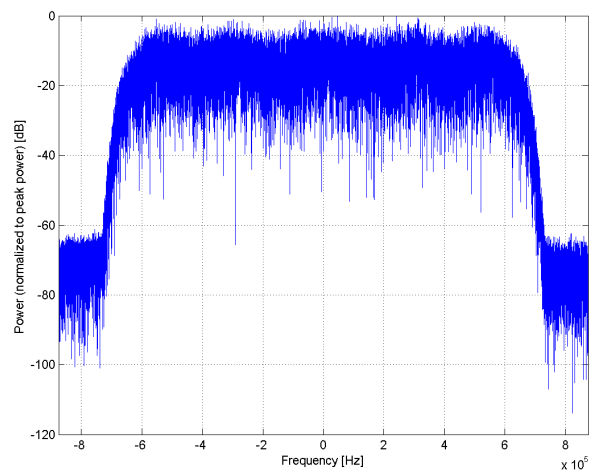
Name:	CDMA2000 (1xEV-DO Rev A, 1.8Mbps)
Group:	CDMA2000
UID:	10273-CAA
PAR: ¹	10.07 dB
MIF: ²	-3.78 dB
Standard Reference:	3GPP2 C.S0024-A v3.0
Category:	Random amplitude modulation
Modulation:	8PSK
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 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) Band Class 13 (2500.0-2570.0 MHz, 20179) Band Class 14 (1850.0-1915.0 MHz, 20180) Band Class 15 (1710.0-1755.0 MHz, 20181) Band Class 16 (2502.0-2568.0 MHz, 20182) Band Class 18 (787.0-799.0 MHz, 20184) Band Class 19 (698.0-716.0 MHz, 20185) Band Class 20 (1626.5-1660.5 MHz, 20186) Band Class 21 (2000.0-2020.0 MHz, 20187)
Detailed Specification:	Physical Layer Subtype: 2 Channel Type: Traffic Transmission Mode: Low Latency Transmitted Payload Size: 12288 bits Physical Layer Transmit Duration: 1 subframe Effective Data Rate: 1843.2 kbps Payload Data: PN15 ACK Channel: transmitting at all slots Modulation: E4E2
Bandwidth:	1.2 MHz
Integration Time:	80.0 ms

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

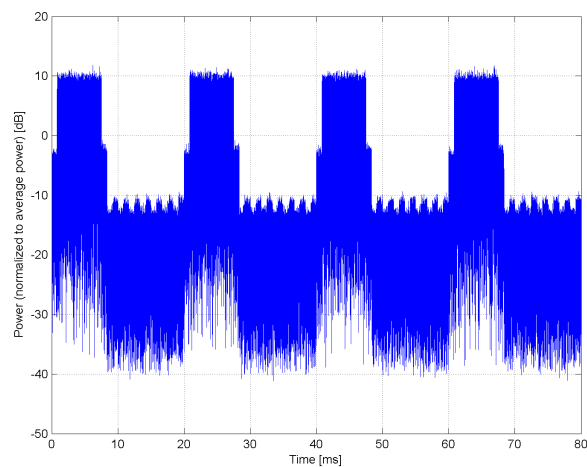
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

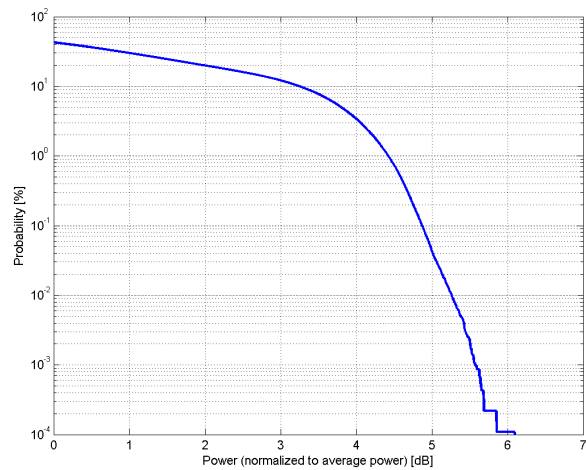


Time Domain

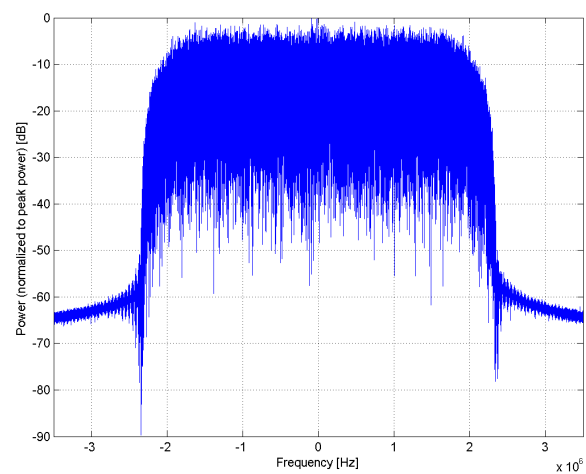
Name:	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)
Group:	WCDMA
UID:	10274-CAA
PAR: ¹	4.87 dB
MIF: ²	-24.48 dB
Standard Reference:	ETSI-3GPP TS 134 121-1 V8.10.0 (2010-06), Section C11.1
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, UTRA/FDD (1920.0-1980.0 MHz, 20000) Band 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 5 Conditions: DPCCH gain factor (Beta _c) = 15/15 DPDCH gain factor (Beta _d): 0
Bandwidth:	5.0 MHz
Integration Time:	80.0 ms

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

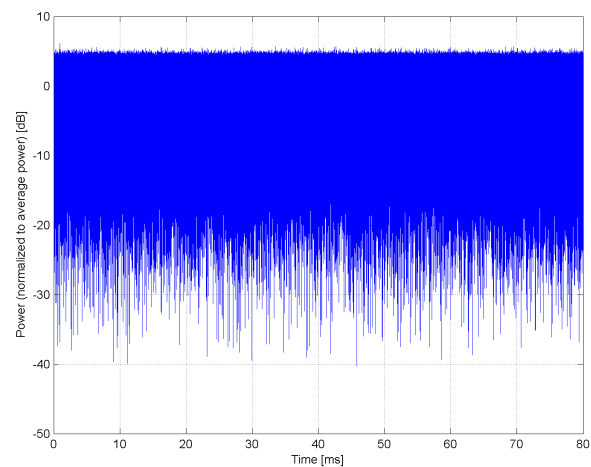
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



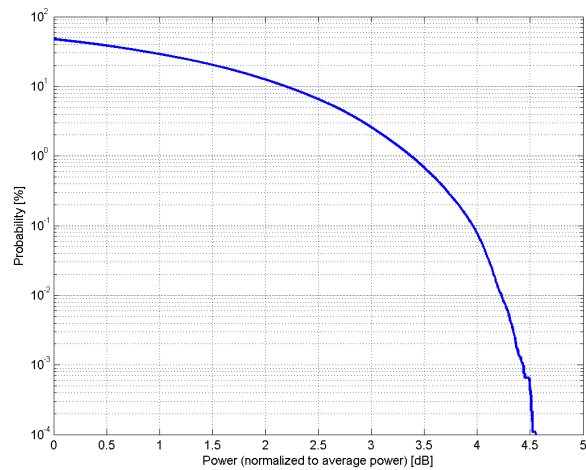
Frequency Domain



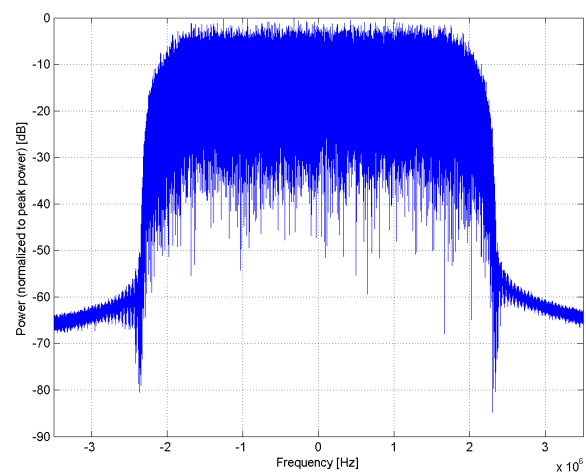
Time Domain

Name:	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)
Group:	WCDMA
UID:	10275-CAA
PAR: ¹	3.96 dB
MIF: ²	-26.26 dB
Standard Reference:	ETSI-3GPP TS 134 121-1 V8.04.0 (2008-10), Section C11.1 FCC OET KDB 941225 D01 SAR test for 3G devices v02 FCC OET KDB 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 1, 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 5 Conditions: DPCCH gain factor (Beta _c) = 15/15 DPDCH gain factor (Beta _d): 15/15
Bandwidth:	5.0 MHz
Integration Time:	80.0 ms

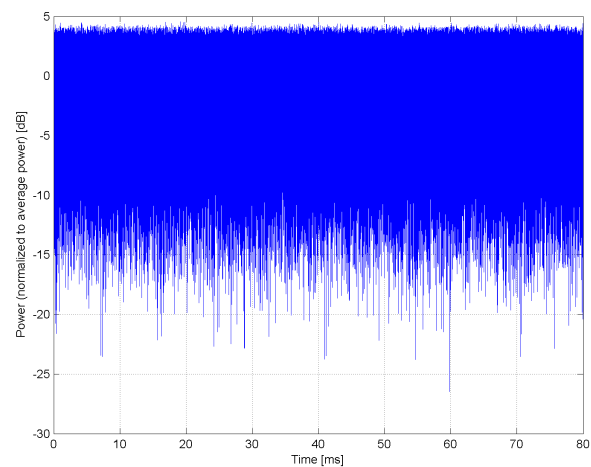
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



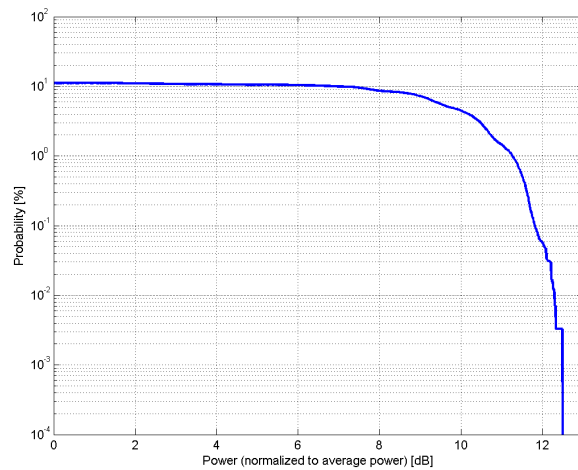
Time Domain

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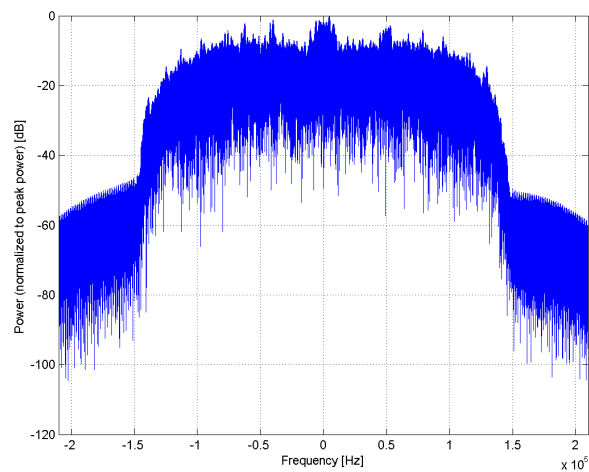
Name:	PHS (QPSK)
Group:	PHS
UID:	10277-CAA
PAR: ¹	11.81 dB
MIF: ²	3.54 dB
Standard Reference:	ARIB STANDARD RCR STD-28 VERSION 6.0
Category:	Periodic pulsed modulation
Modulation:	QPSK
Frequency Band:	PHS band (1884.5-1919.6 MHz, 20191)
Detailed Specification:	Channel type: Traffic
	Data type: PN9
	Active slot: 5th
	Frame: composed out of 8 slots
	Occupied bandwidth: 288kHz or less
Bandwidth:	0.3 MHz
Integration Time:	100.0 ms

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

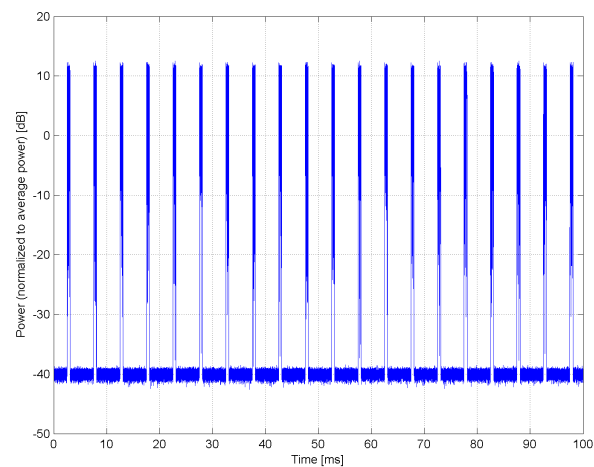
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



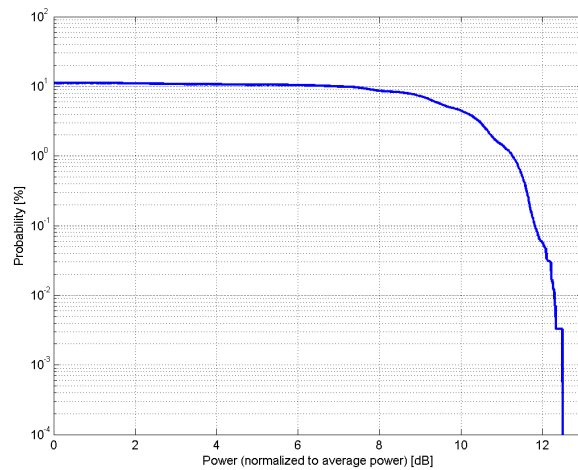
Time Domain

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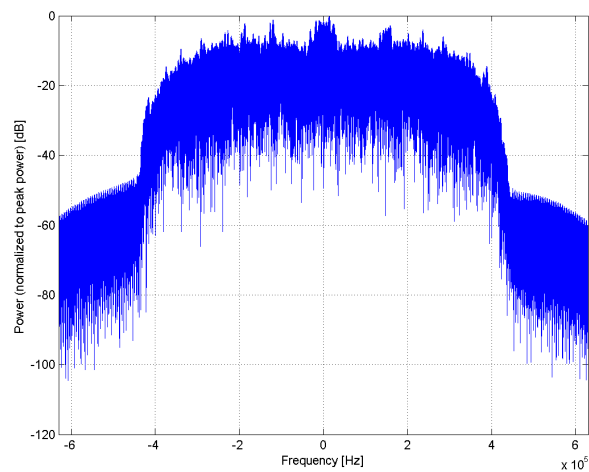
Name:	PHS (QPSK, BW 884MHz, Rolloff 0.5)
Group:	PHS
UID:	10278-CAA
PAR: ¹	11.81 dB
MIF: ²	3.36 dB
Standard Reference:	ARIB STANDARD RCR STD-28 VERSION 6.0
Category:	Periodic pulsed modulation
Modulation:	QPSK
Frequency Band:	PHS band large BW (1884.5-1893.5 MHz, 20192)
Detailed Specification:	Channel type: Traffic Data type: PN9 Active slot: 5th Frame: composed out of 8 slots Occupied bandwidth: 884kHz or less Rolloff factor: 0.5
Bandwidth:	0.9 MHz
Integration Time:	33.3 ms

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

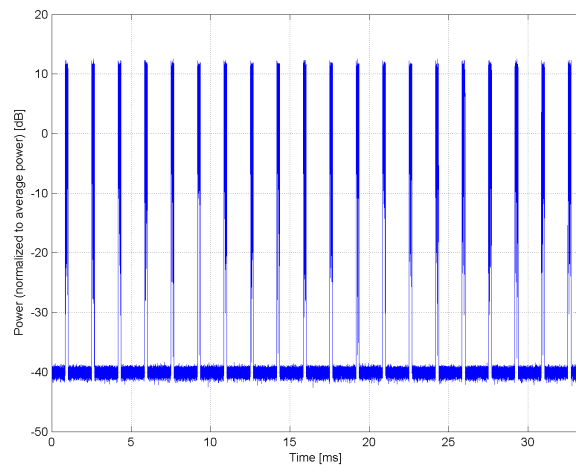
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **PHS (QPSK, BW 884MHz, Rolloff 0.38)**

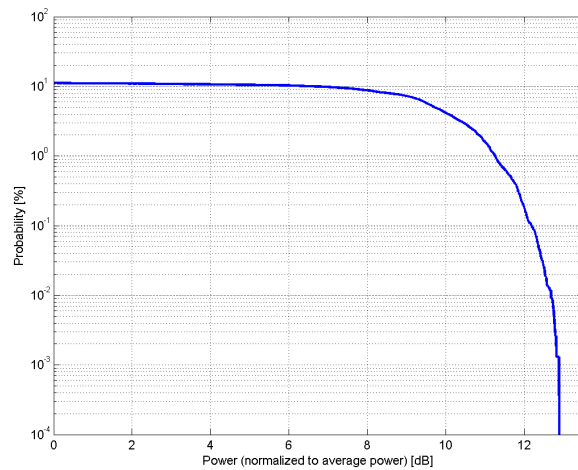
Group: PHS
UID: 10279-CAA

PAR: ¹ **12.18 dB**
MIF: ² **3.25 dB**

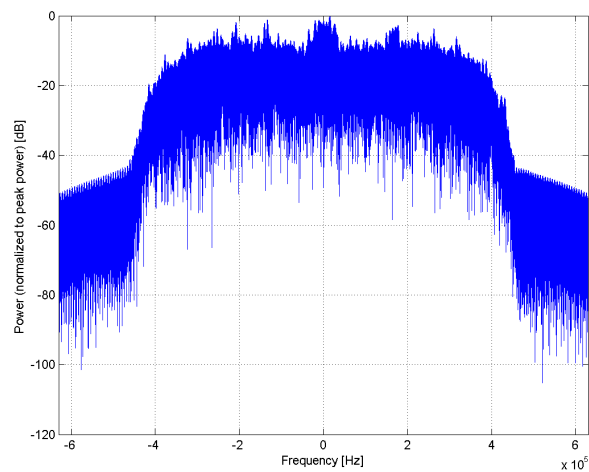
Standard Reference: ARIB STANDARD RCR STD-28 VERSION 6.0
Category: Periodic pulsed modulation
Modulation: QPSK
Frequency Band: PHS band large BW (1884.5-1893.5 MHz, 20192)
Detailed Specification: Channel type: Traffic
Data type: PN9
Active slot: 5th
Frame: composed out of 8 slots
Occupied bandwidth: 884kHz or less
Rolloff factor: 0.38
Bandwidth: 0.9 MHz
Integration Time: 30.0 ms

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

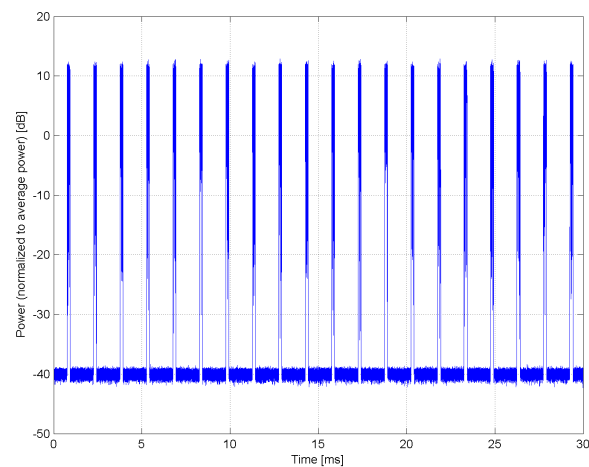
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

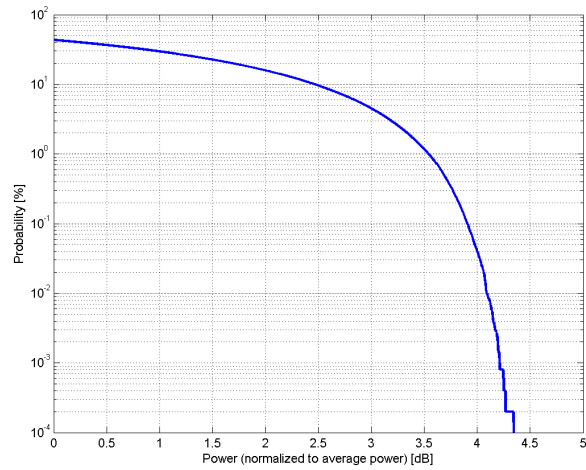


Time Domain

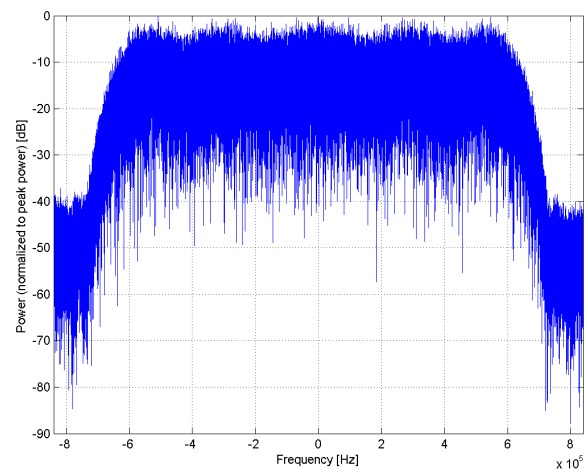
Name:	CDMA2000, RC1, SO55, Full Rate
Group:	CDMA2000
UID:	10290-AAA
PAR: ¹	3.91 dB
MIF: ²	-19.47 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	64-ary orthogonal
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051)
Detailed Specification:	Radio Configuration 1 (RC1) Service Option 55 (SO55)
Bandwidth:	Full rate 1.2 MHz
Integration Time:	100.0 ms

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

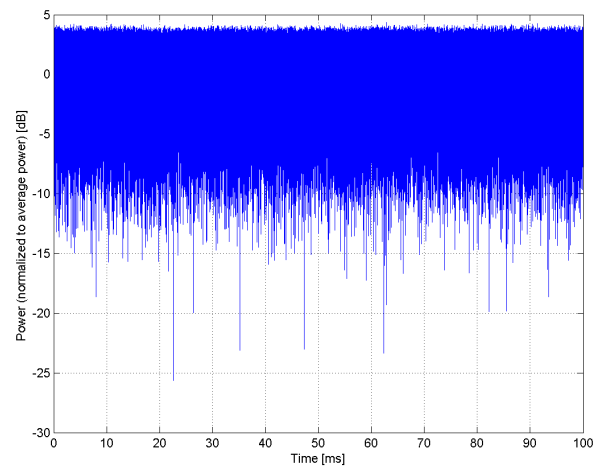
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

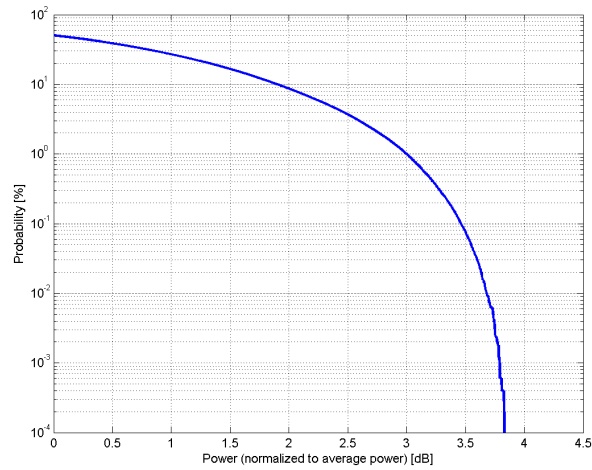


Time Domain

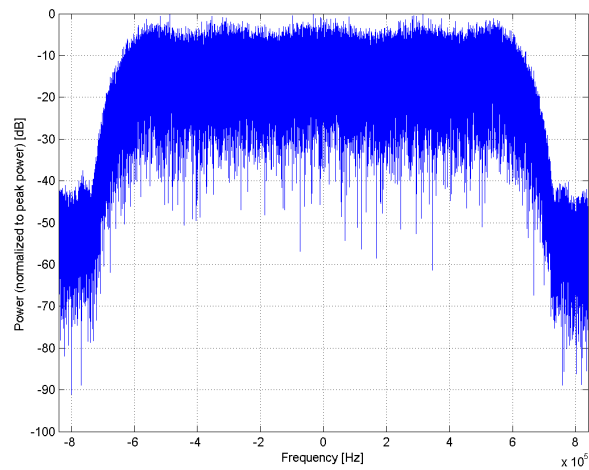
Name:	CDMA2000, RC3, SO55, Full Rate
Group:	CDMA2000
UID:	10291-AAA
PAR: ¹	3.46 dB
MIF: ²	-19.70 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051)
Detailed Specification:	Radio Configuration 3 (RC3) Service Option 55 (SO55)
Bandwidth:	Full frame rate 1.2 MHz
Integration Time:	100.0 ms

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

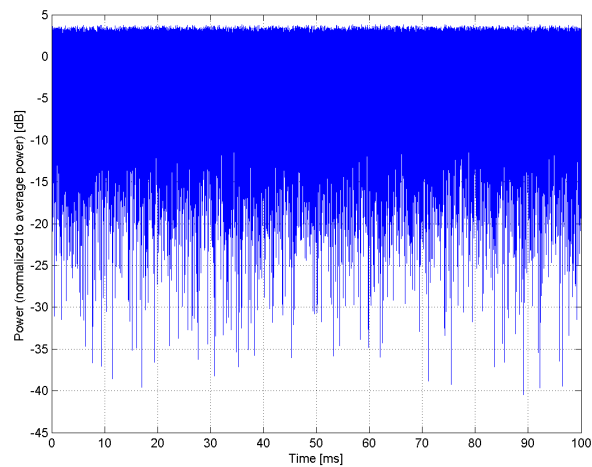
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

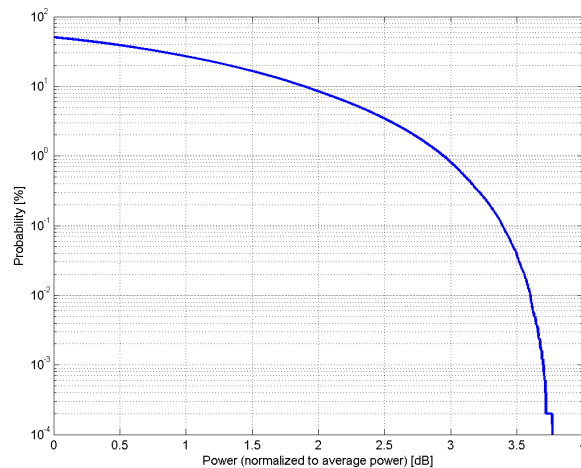


Time Domain

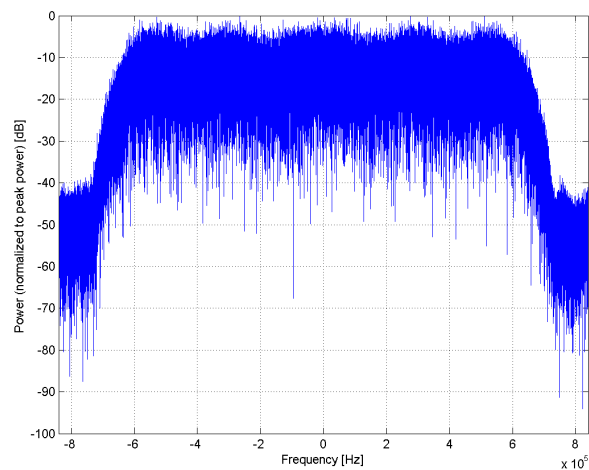
Name:	CDMA2000, RC3, SO32, Full Rate
Group:	CDMA2000
UID:	10292-AAA
PAR: ¹	3.39 dB
MIF: ²	-19.75 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051)
Detailed Specification:	Radio Configuration 3 (RC3) Service Option 32 (SO32)
Bandwidth:	Full frame rate 1.2 MHz
Integration Time:	100.0 ms

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

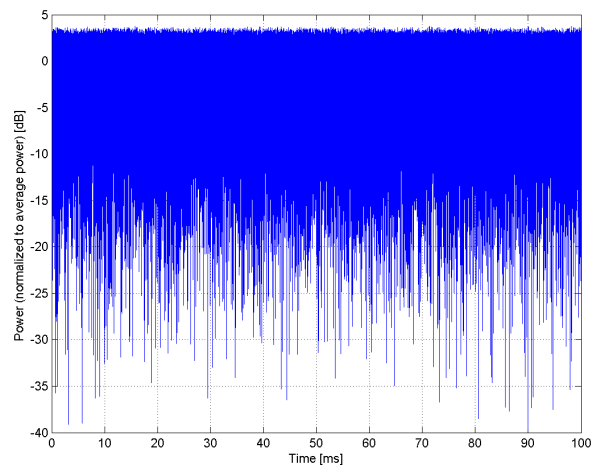
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

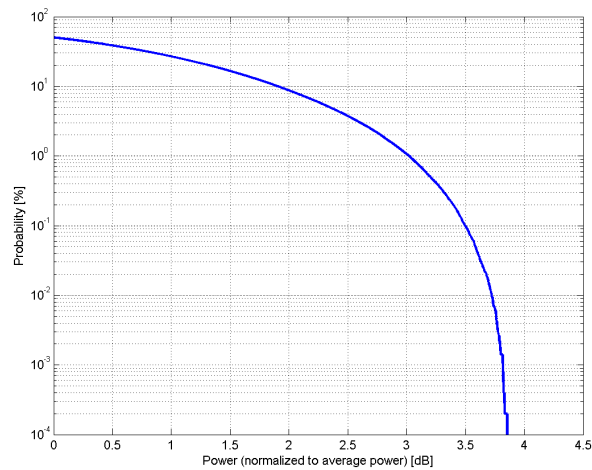


Time Domain

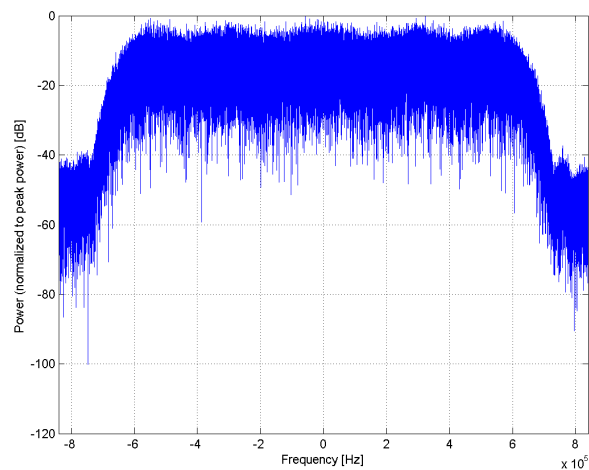
Name:	CDMA2000, RC3, SO3, Full Rate
Group:	CDMA2000
UID:	10293-AAA
PAR: ¹	3.50 dB
MIF: ²	-19.43 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051)
Detailed Specification:	Radio Configuration 3 (RC3) Service Option 3 (SO3) Speech codec: 8k EVRC (Enhanced Voice Rate Codec)
Bandwidth:	Full frame rate 1.2 MHz
Integration Time:	100.0 ms

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

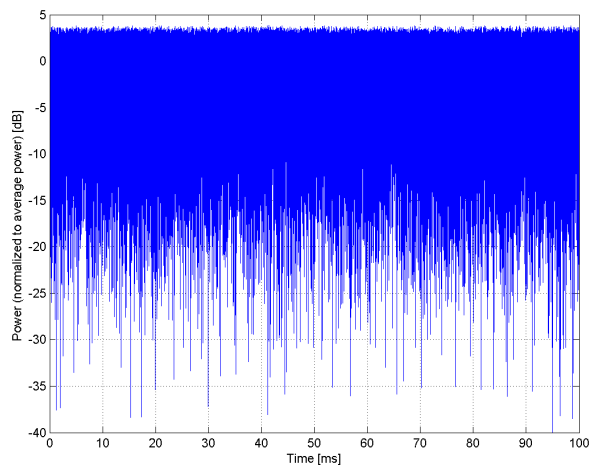
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



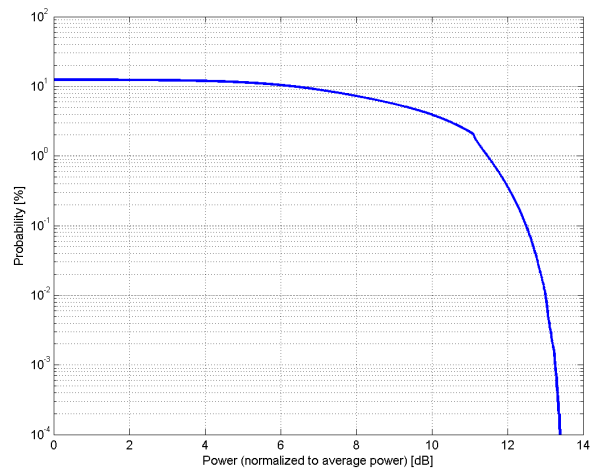
Time Domain

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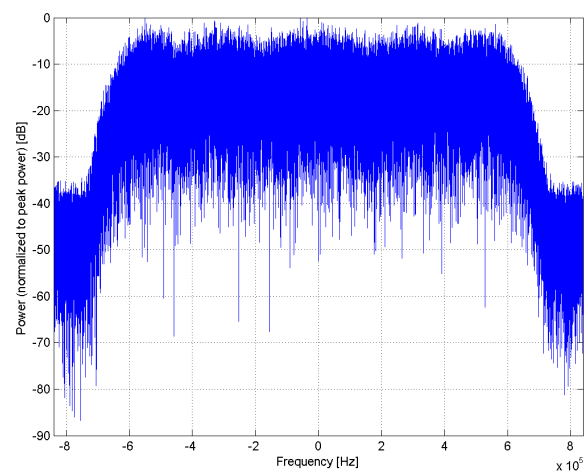
Name:	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.
Group:	CDMA2000
UID:	10295-AAA
PAR: ¹	12.49 dB
MIF: ²	3.26 dB
Standard Reference:	3GPP2 C.S0002-C-1, Chapter 2.1.3.9.2.3 FCC OET KDB 941225 D01 SAR test for 3G devices (v02)
Category:	Random amplitude modulation
Modulation:	64-ary orthogonal
Frequency Band:	Band Class 0 (824.0-849.0 MHz, 20039) Band Class 1 (1850.0-1910.0 MHz, 20040) Band Class 2 (872.0-915.0 MHz, 20041) Band Class 3 (887.0-925.0 MHz, 20042) Band Class 4 (1750.0-1780.0 MHz, 20043) Band Class 5 (411.7-483.5 MHz, 20044) Band Class 6 (1920.0-1980.0 MHz, 20045) Band Class 7 (776.0-794.0 MHz, 20046) Band Class 8 (1710.0-1785.0 MHz, 20047) Band Class 9 (880.0-915.0 MHz, 20048) Band Class 10 (806.0-901.0 MHz, 20049) Band Class 11 (410.0-462.5 MHz, 20050) Band Class 12 (870.0-876.0 MHz, 20051)
Detailed Specification:	Radio Configuration 1 (RC1) Service Option 3 (SO3) Speech codec: 8k EVRC (Enhanced Voice Rate Codec) 1/8th frame rate
Bandwidth:	1.2 MHz
Integration Time:	500.0 ms

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

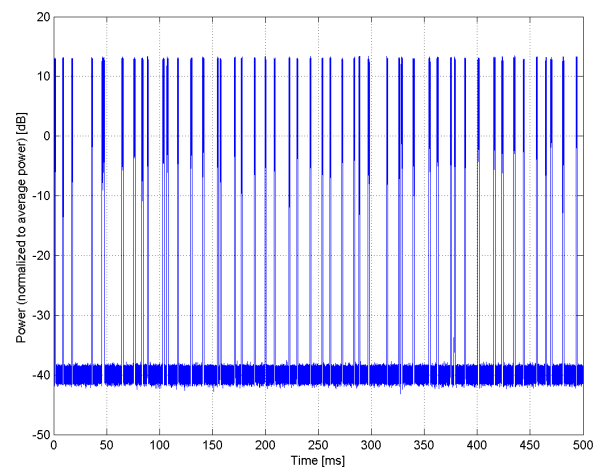
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



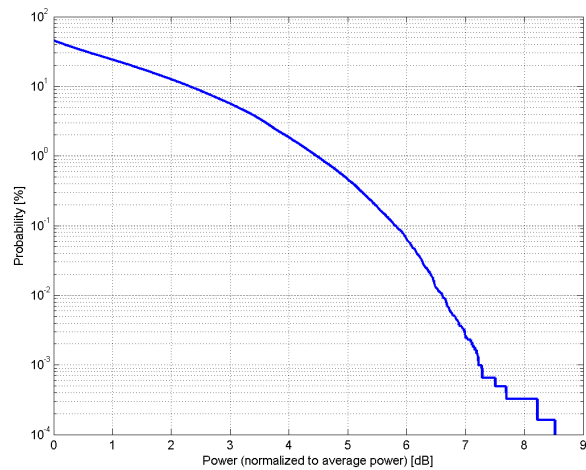
Time Domain

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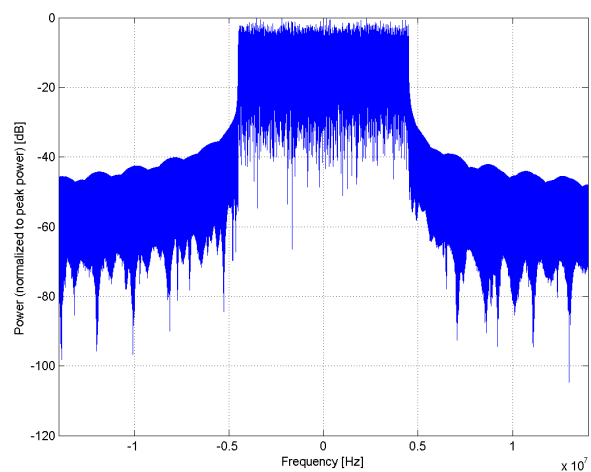
Name:	LTE-FDD (SC-FDMA, 50 % RB, 20 MHz, QPSK)
Group:	LTE-FDD
UID:	10297-AAA
PAR: ¹	5.81 dB
MIF: ²	-21.56 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency 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 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: 50 Transport Block Size: 4392 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

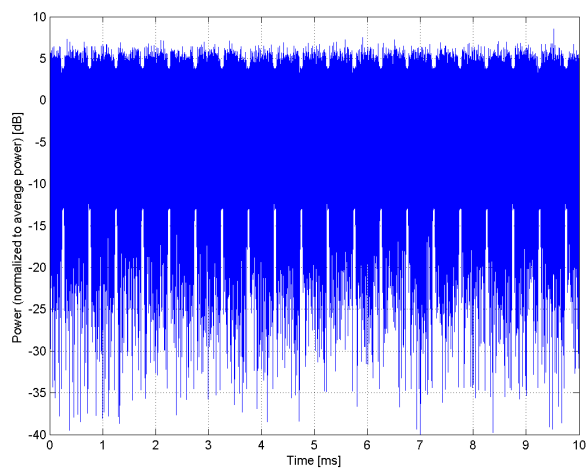
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



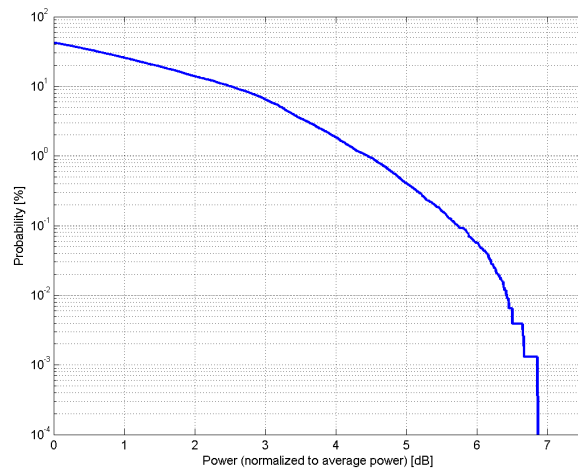
Time Domain

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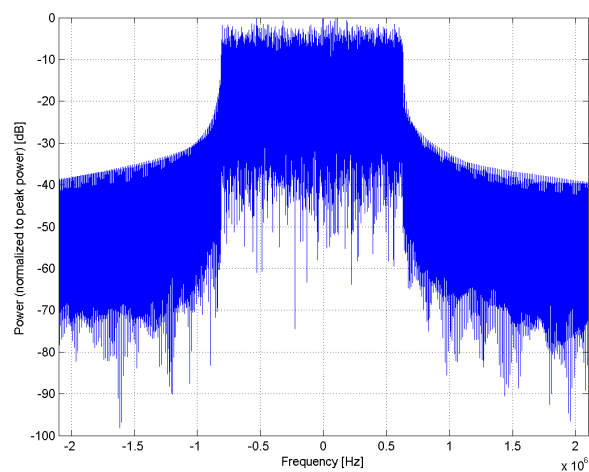
Name:	LTE-FDD (SC-FDMA, 50 % RB, 3 MHz, QPSK)
Group:	LTE-FDD
UID:	10298-AAA
PAR: ¹	5.72 dB
MIF: ²	-20.24 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency 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: 8 Transport Block Size: 680 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

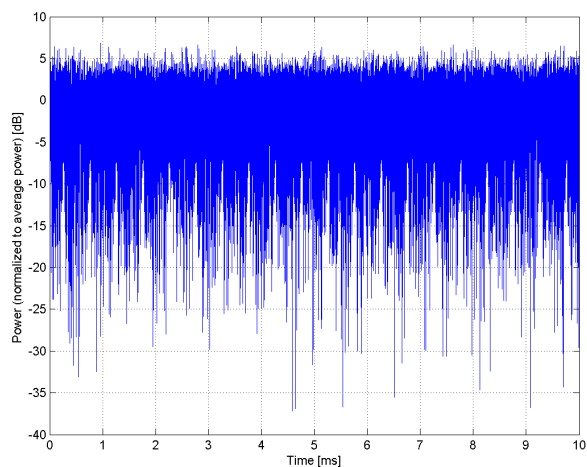
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



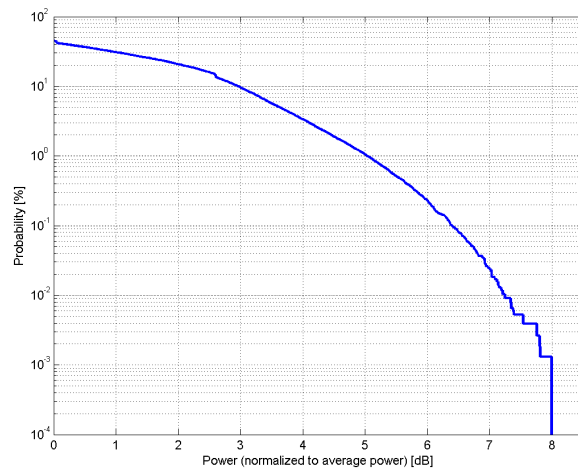
Time Domain

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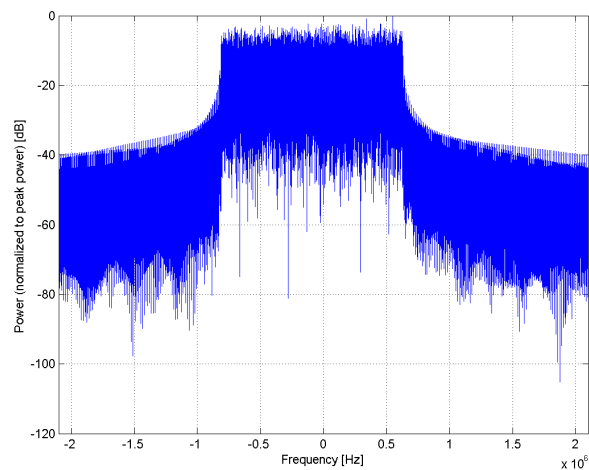
Name:	LTE-FDD (SC-FDMA, 50 % RB, 3 MHz, 16-QAM)
Group:	LTE-FDD
UID:	10299-AAA
PAR: ¹	6.39 dB
MIF: ²	-14.38 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	16-QAM
Modulation:	Band 2, 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)
Frequency Band:	Modulation Scheme: SC-FDMA Number of PUSCHs: 1 Settings for Subframe #0 to #9: Modulation Scheme: 16QAM Data Type: UL-SCH Number RB: 8 Transport Block Size: 2280 TBS Index: 14 MCS Index: 15 Data Type: PN9
Detailed Specification:	3.0 MHz
Bandwidth:	10.0 ms
Integration Time:	

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

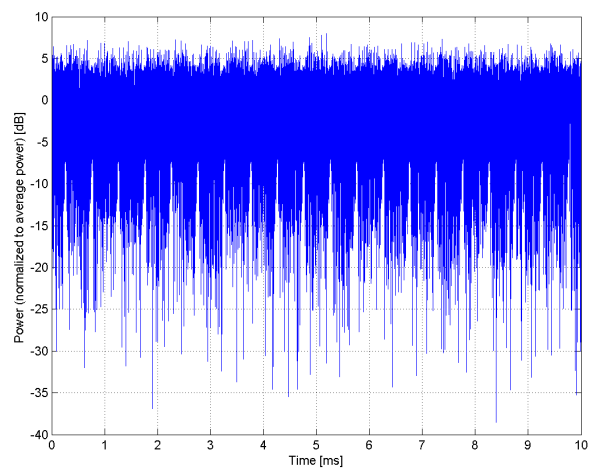
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



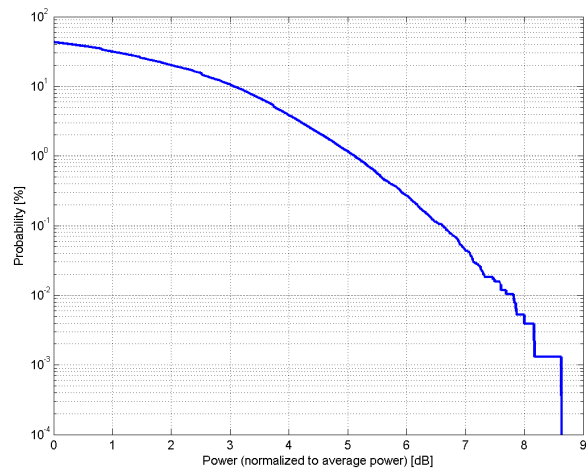
Time Domain

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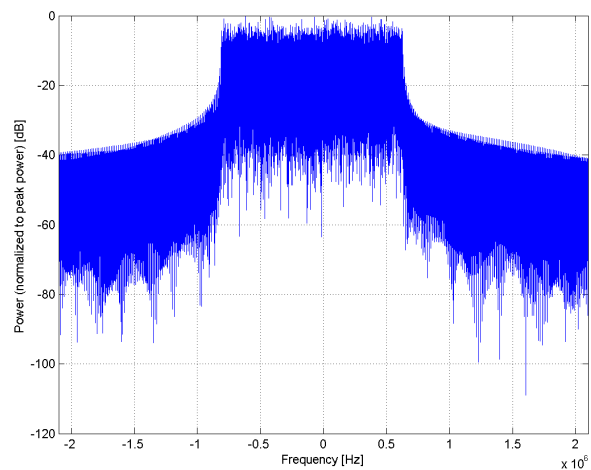
Name:	LTE-FDD (SC-FDMA, 50 % RB, 3 MHz, 64-QAM)
Group:	LTE-FDD
UID:	10300-AAA
PAR: ¹	6.60 dB
MIF: ²	-13.14 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	64-QAM
Modulation:	64-QAM
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) 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: 8 Transport Block Size: 4584 TBS Index: 23 MCS Index: 25 Data Type: PN9
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

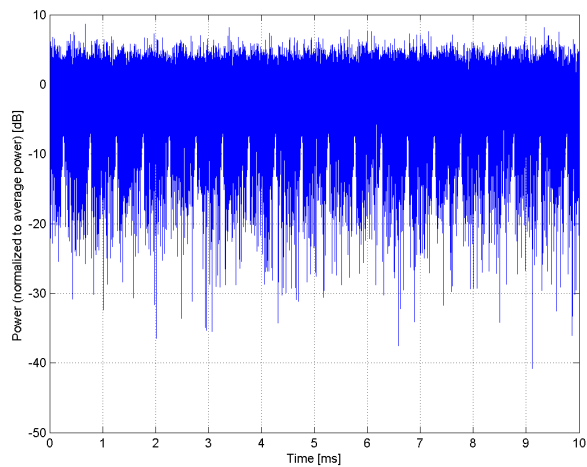
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

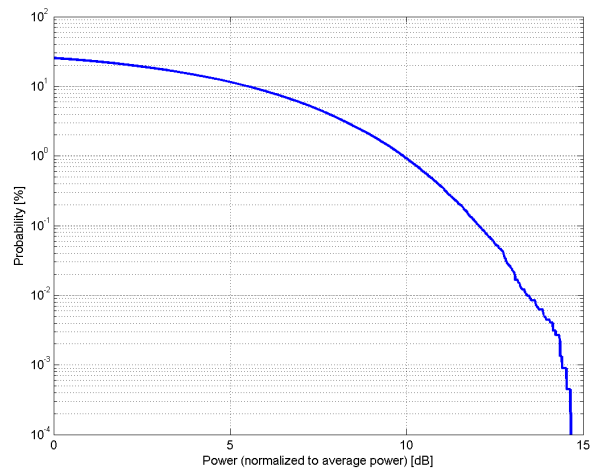


Time Domain

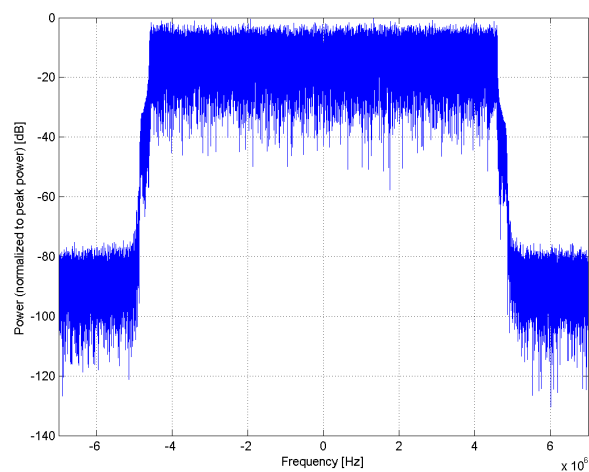
Name:	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)
Group:	WiMAX
UID:	10301-AAA
PAR: ¹	12.03 dB
MIF: ²	-1.38 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
Detailed Specification:	Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: QPSK(CTC)1/2 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC
Bandwidth:	10.0 MHz
Integration Time:	5.0 ms

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

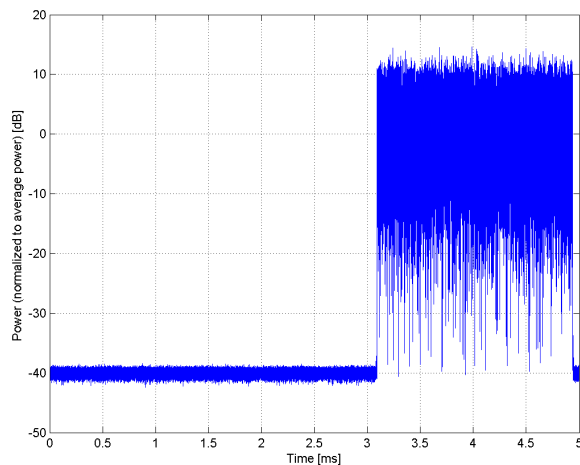
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



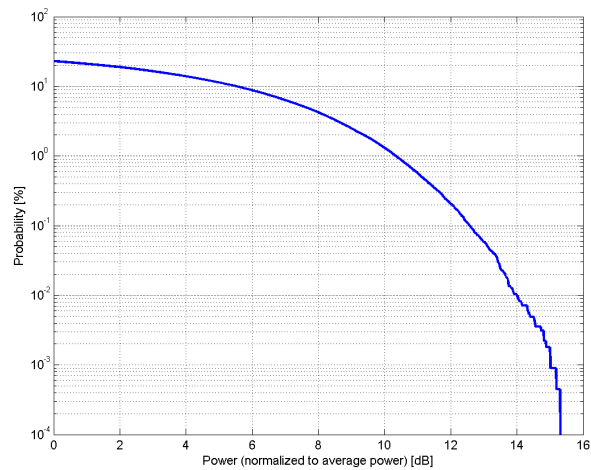
Frequency Domain



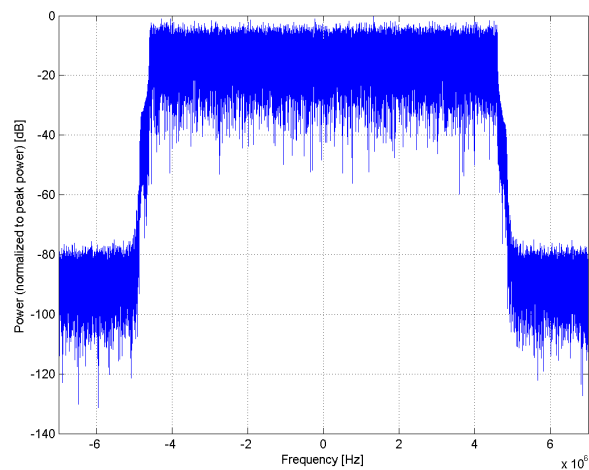
Time Domain

Name:	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)
Group:	WiMAX
UID:	10302-AAA
PAR: ¹	12.57 dB
MIF: ²	-0.84 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
Detailed Specification:	Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: QPSK(CTC)1/2 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 (15 traffic symbols + 3 control symbols) UL Zone Types: PUSC
Bandwidth:	10.0 MHz
Integration Time:	5.0 ms

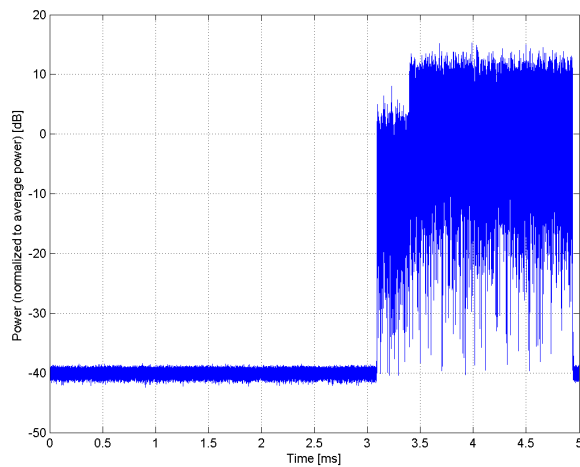
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

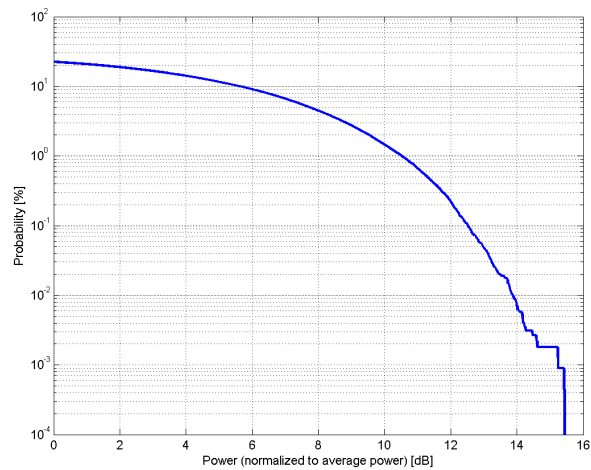
Name: **IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)**

Group: WiMAX
 UID: 10303-AAA

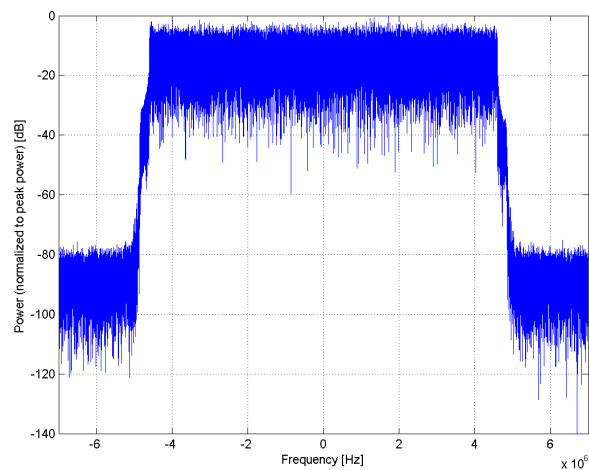
PAR: ¹ **12.52 dB**
 MIF: ² **-0.53 dB**

Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
 IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
 Category: Random amplitude modulation
 Modulation: 64-QAM
 Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
 Band Class 3 (2496.0-2690.0 MHz, 20076)
 Band Class 5 (3400.0-3800.0 MHz, 20077)
 Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
 Detailed Specification: Transmission: OFDMA
 DL:UL Symbols Ratio: 31:15
 Frame Size: 5ms
 Bandwidth: 10MHz
 Modulation Scheme: 64QAM(CTC) 5/6
 FFT Size: 1024
 Sampling Factor: 28/25
 Sampling Frequency: 44.8 MHz
 Oversampling Ratio: 4
 Subcarrier Spacing: 10.9375 kHz
 TTG, RTG: 2 us, 60 us
 Numbers of DL Symbols active: 0
 Numbers of UL Symbols active: 15 traffic symbols
 UL Zone Types: PUSC
 Bandwidth: 10.0 MHz
 Integration Time: 5.0 ms

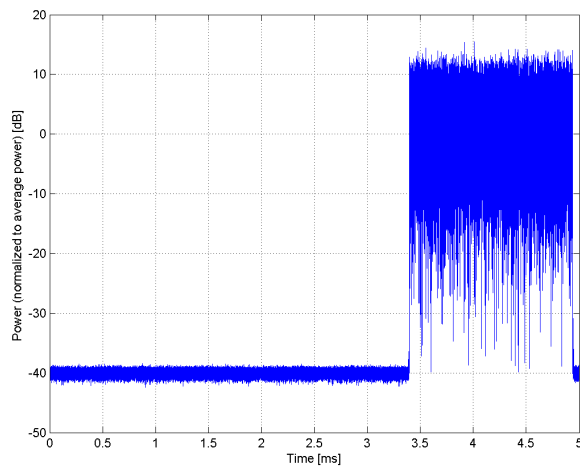
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

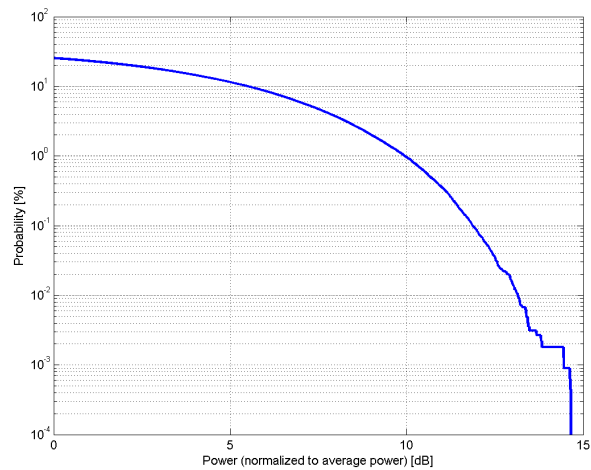


Time Domain

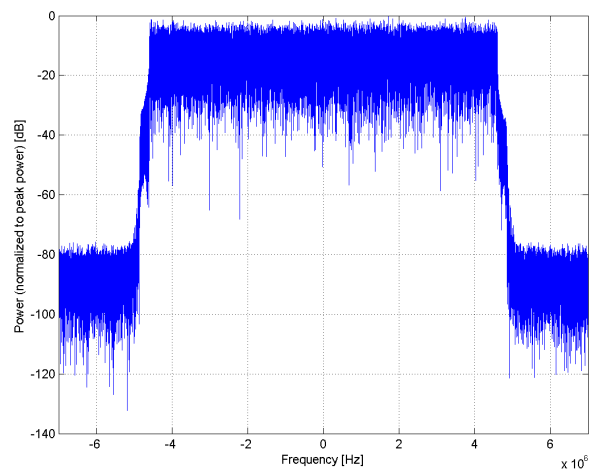
Name:	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)
Group:	WiMAX
UID:	10304-AAA
PAR: ¹	11.86 dB
MIF: ²	-1.39 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
Detailed Specification:	Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 5ms Bandwidth: 10MHz Modulation Scheme: 64QAM(CTC)5/6 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 44.8 MHz Oversampling Ratio: 4 Subcarrier Spacing: 10.9375 kHz TTG, RTG: 105 us, 60 us Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC
Bandwidth:	10.0 MHz
Integration Time:	5.0 ms

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

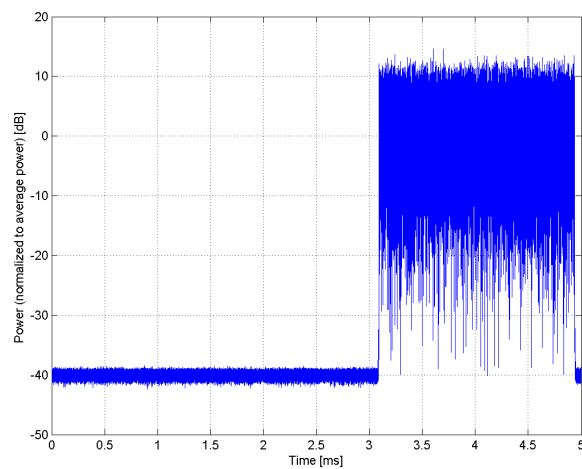
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)**

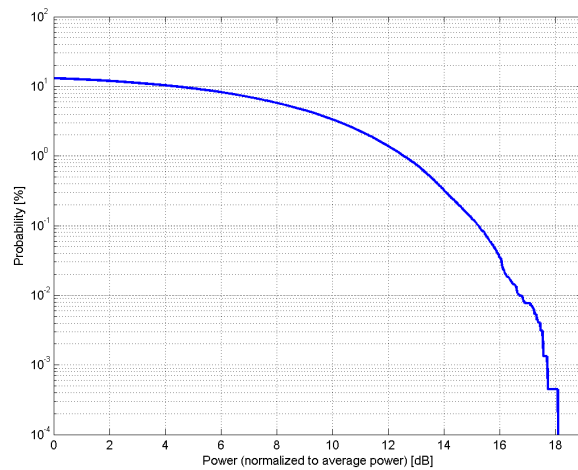
Group: WiMAX
 UID: 10305-AAA

PAR: ¹ **15.24 dB**
 MIF: ² **1.74 dB**

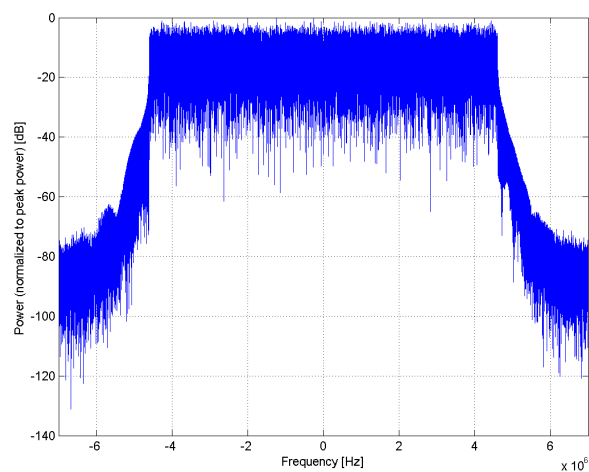
Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
 IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
 Category: Random amplitude modulation
 Modulation: 64-QAM
 Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
 Band Class 3 (2496.0-2690.0 MHz, 20076)
 Band Class 5 (3400.0-3800.0 MHz, 20077)
 Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
 Detailed Specification: Transmission: OFDMA
 DL:UL Symbols Ratio: 31:15
 Frame Size: 10ms
 Bandwidth: 10MHz
 Modulation Scheme: 64QAM(CTC) 5/6
 FFT Size: 1024
 Sampling Factor: 28/25
 Sampling Frequency: 22.4 MHz
 Oversampling Ratio: 2
 Subcarrier Spacing: 10.9375 kHz
 Numbers of DL Symbols active: 0
 Numbers of UL Symbols active: 15 traffic symbols
 UL Zone Types: PUSC
 Bandwidth: 10.0 MHz
 Integration Time: 10.0 ms

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

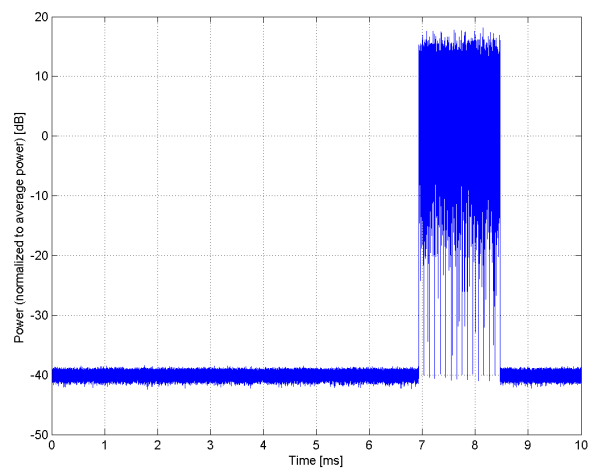
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)**

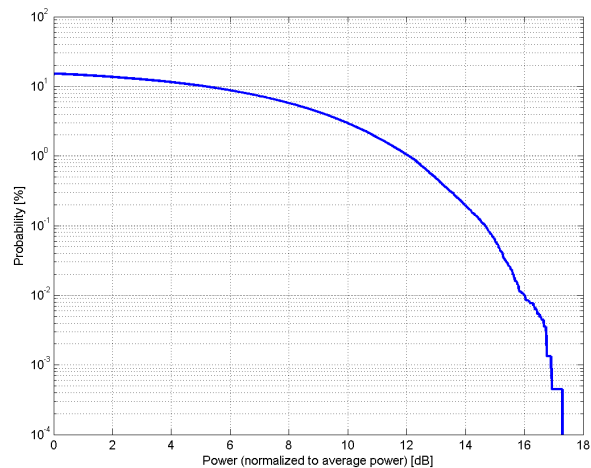
Group: WiMAX
 UID: 10306-AAA

PAR: ¹ **14.67 dB**
 MIF: ² **0.91 dB**

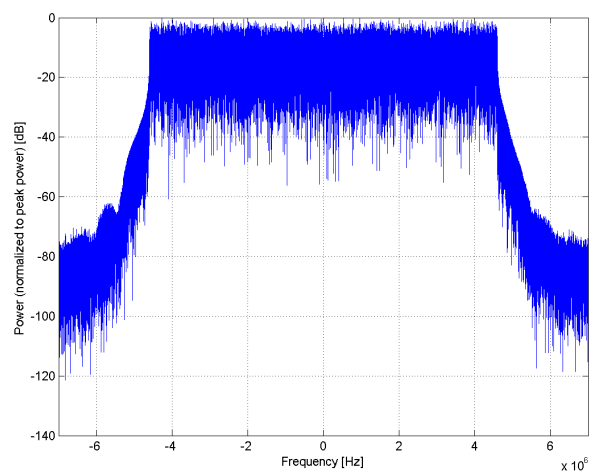
Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
 IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
 Category: Random amplitude modulation
 Modulation: 64-QAM
 Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
 Band Class 3 (2496.0-2690.0 MHz, 20076)
 Band Class 5 (3400.0-3800.0 MHz, 20077)
 Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
 Detailed Specification: Transmission: OFDMA
 DL:UL Symbols Ratio: 29:18
 Frame Size: 10ms
 Bandwidth: 10MHz
 Modulation Scheme: 64QAM(CTC) 5/6
 FFT Size: 1024
 Sampling Factor: 28/25
 Sampling Frequency: 22.4 MHz
 Oversampling Ratio: 2
 Subcarrier Spacing: 10.9375 kHz
 Numbers of DL Symbols active: 0
 Numbers of UL Symbols active: 18 traffic symbols
 UL Zone Types: PUSC
 Bandwidth: 10.0 MHz
 Integration Time: 10.0 ms

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

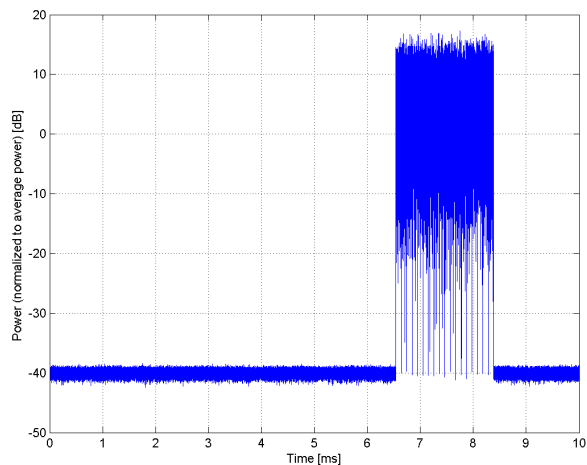
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)**

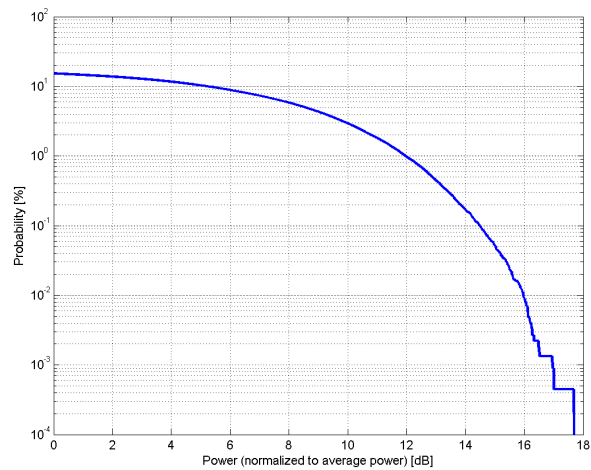
Group: WiMAX
 UID: 10307-AAA

PAR: ¹ **14.49 dB**
 MIF: ² **0.89 dB**

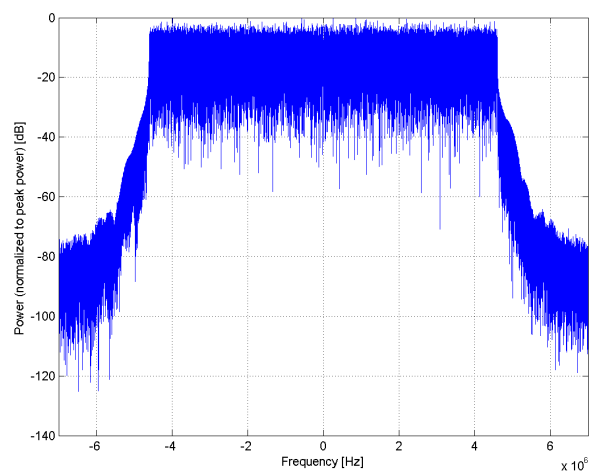
Standard Reference: FCC 802.16e WiMax SARGuidance v01 (615223 D01)
 IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
 Category: Random amplitude modulation
 Modulation: QPSK
 Frequency Band: Band Class 1 (2300.0-2400.0 MHz, 20075)
 Band Class 3 (2496.0-2690.0 MHz, 20076)
 Band Class 5 (3400.0-3800.0 MHz, 20077)
 Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
 Detailed Specification: Transmission: OFDMA
 DL:UL Symbols Ratio: 29:18
 Frame Size: 10ms
 Bandwidth: 10 MHz
 Modulation Scheme: QPSK(CTC)3/4
 FFT Size: 1024
 Sampling Factor: 28/25
 Sampling Frequency: 22.4 MHz
 Oversampling Ratio: 2
 Subcarrier Spacing: 10.9375 kHz
 Numbers of DL Symbols active: 0
 Numbers of UL Symbols active: 18 traffic symbols
 UL Zone Types: PUSC
 Bandwidth: 10.0 MHz
 Integration Time: 10.0 ms

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

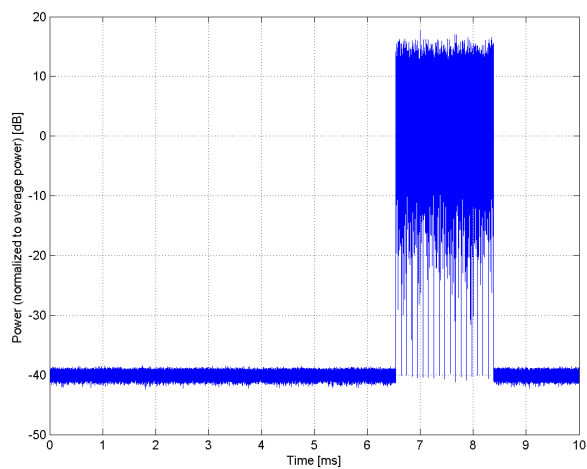
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

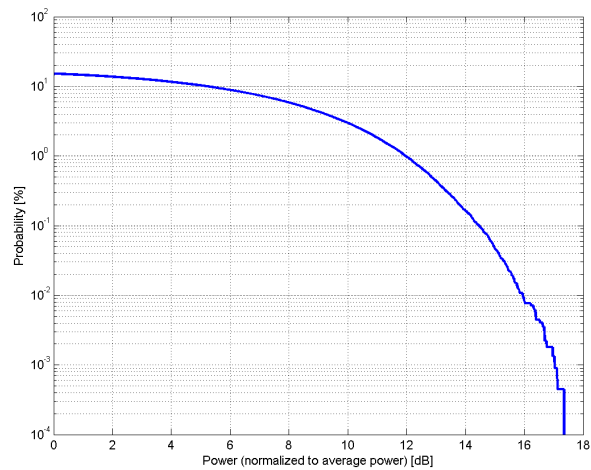


Time Domain

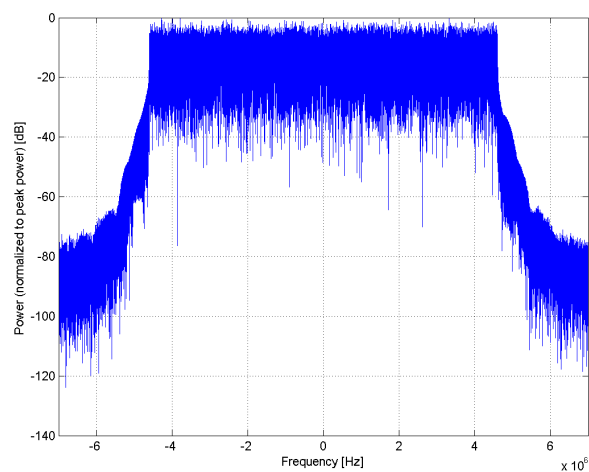
Name:	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)
Group:	WiMAX
UID:	10308-AAA
PAR: ¹	14.46 dB
MIF: ²	0.91 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
Detailed Specification:	Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 10ms Bandwidth: 10 MHz Modulation Scheme: 16QAM(CTC)3/4 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 22.4 MHz Oversampling Ratio: 2 Subcarrier Spacing: 10.9375 kHz Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: PUSC
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

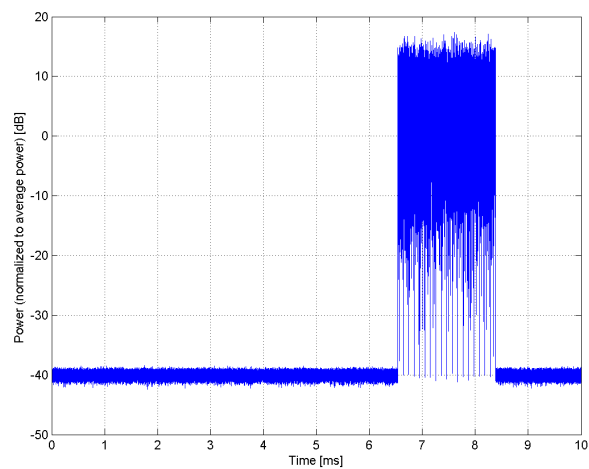
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

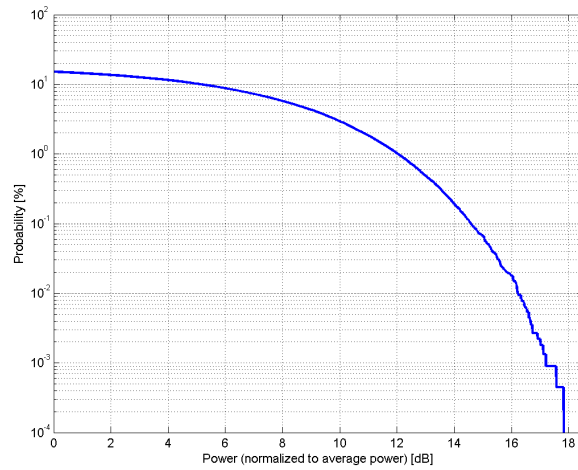


Time Domain

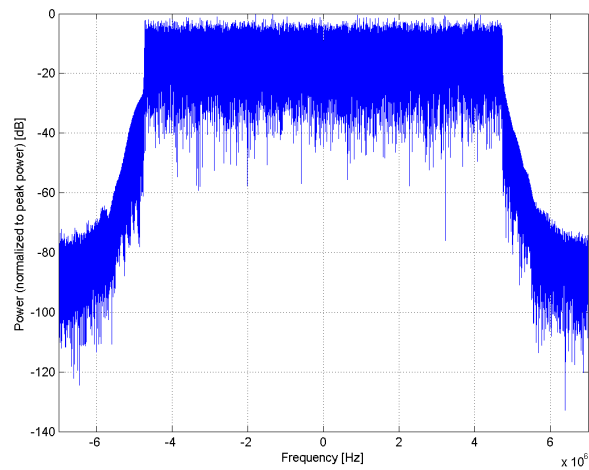
Name:	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)
Group:	WiMAX
UID:	10309-AAA
PAR: ¹	14.58 dB
MIF: ²	0.90 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01)
Category:	IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Modulation:	Random amplitude modulation
Frequency Band:	16-QAM
Detailed Specification:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
	Transmission: OFDMA
	DL:UL Symbols Ratio: 29:18
	Frame Size: 10ms
	Bandwidth: 10 MHz
	Modulation Scheme: 16QAM(CTC)3/4
	FFT Size: 1024
	Sampling Factor: 28/25
	Sampling Frequency: 22.4 MHz
	Oversampling Ratio: 2
	Subcarrier Spacing: 10.9375 kHz
	Numbers of DL Symbols active: 0
	Numbers of UL Symbols active: 18 traffic symbols
	UL Zone Types: AMC 2x3
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

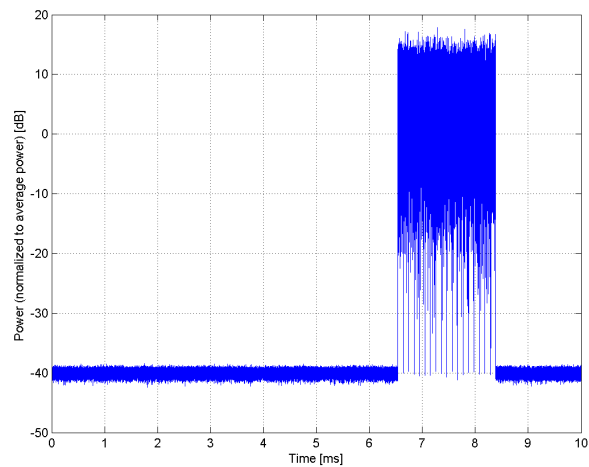
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

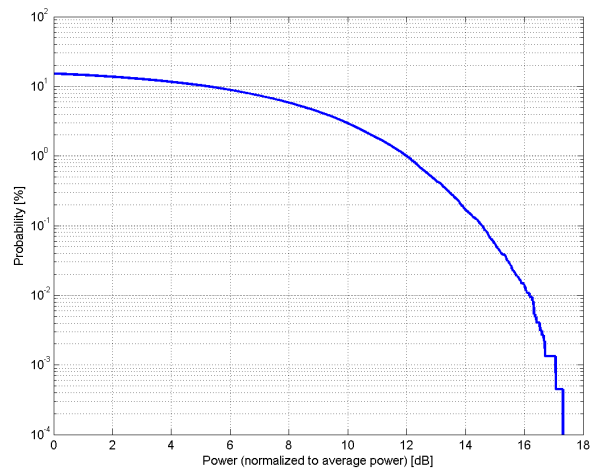


Time Domain

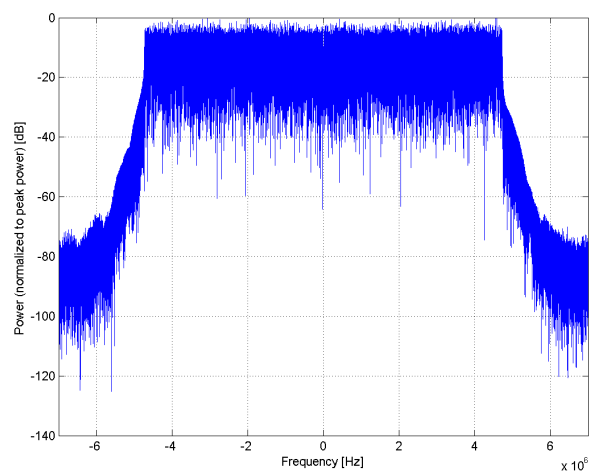
Name:	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)
Group:	WiMAX
UID:	10310-AAA
PAR: ¹	14.57 dB
MIF: ²	0.89 dB
Standard Reference:	FCC 802.16e WiMax SARGuidance v01 (615223 D01) IEEE802.16e-2005 P802.16Rev2/D3 WirelessMAN-OFDMA
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band Class 1 (2300.0-2400.0 MHz, 20075) Band Class 3 (2496.0-2690.0 MHz, 20076) Band Class 5 (3400.0-3800.0 MHz, 20077) Band Class 6, AWS (1710.0-1755.0 MHz, 20078)
Detailed Specification:	Transmission: OFDMA DL:UL Symbols Ratio: 29:18 Frame Size: 10ms Bandwidth: 10 MHz Modulation Scheme: QPSK(CTC)3/4 FFT Size: 1024 Sampling Factor: 28/25 Sampling Frequency: 22.4 MHz Oversampling Ratio: 2 Subcarrier Spacing: 10.9375 kHz Numbers of DL Symbols active: 0 Numbers of UL Symbols active: 18 traffic symbols UL Zone Types: AMC 2x3
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

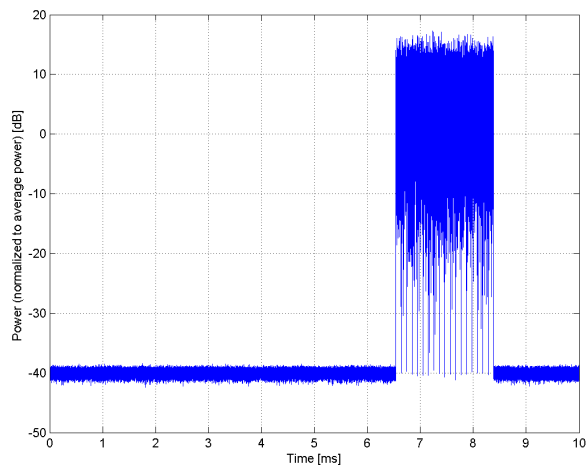
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

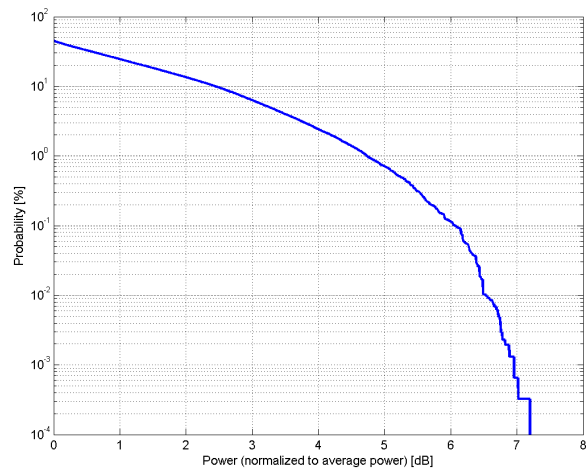


Time Domain

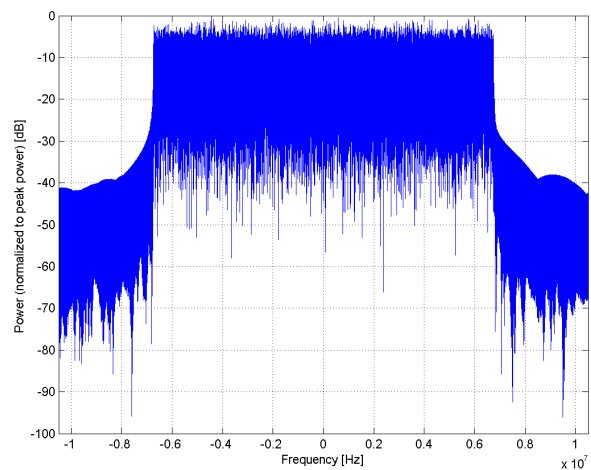
Name:	LTE-FDD (SC-FDMA, 100 % RB, 15 MHz, QPSK)
Group:	LTE-FDD
UID:	10311-AAA
PAR: ¹	6.06 dB
MIF: ²	-20.11 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01 Random amplitude modulation
Category:	QPSK
Modulation:	QPSK
Frequency 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: 75 Transport Block Size: 6712 TBS Index: 5 MCS Index: 5 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

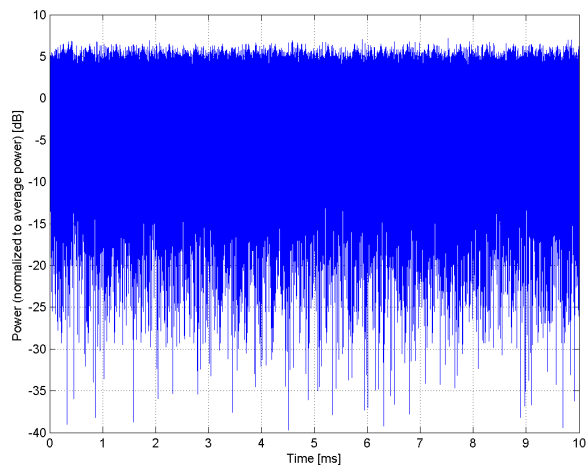
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



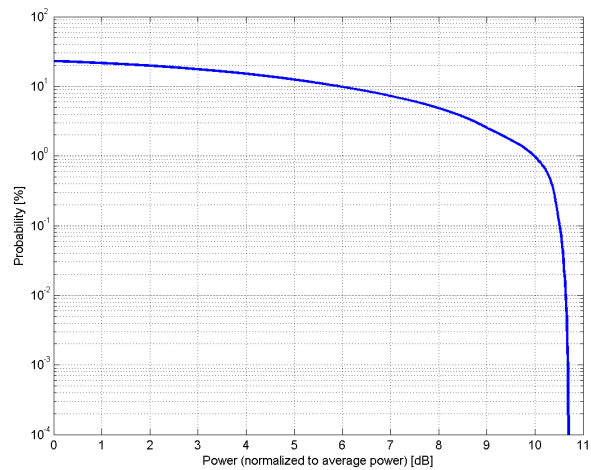
Time Domain

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

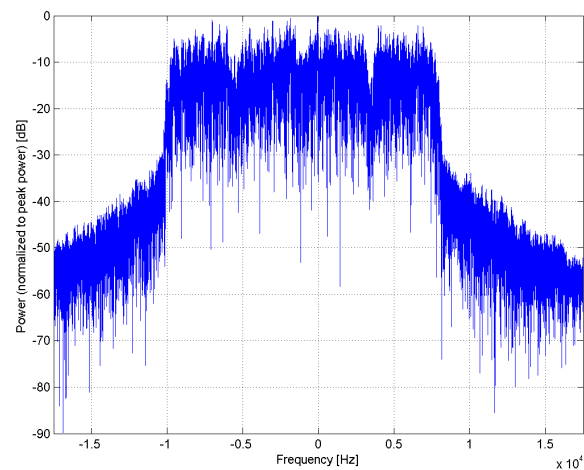
Name:	iDEN 1:3
Group:	iDEN
UID:	10313-AAA
PAR: ¹	10.51 dB
MIF: ²	1.15 dB
Standard Reference:	-
Category:	Periodic pulsed modulation
Modulation:	-
Frequency Band:	PMR 800 (806.0-825.0 MHz, 20071) PMR 900 (896.0-901.0 MHz, 20072) PMR 1450 (1453.0-1465.0 MHz, 20073)
Detailed Specification:	Train setting off
Bandwidth:	0.0 MHz
Integration Time:	540.0 ms

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

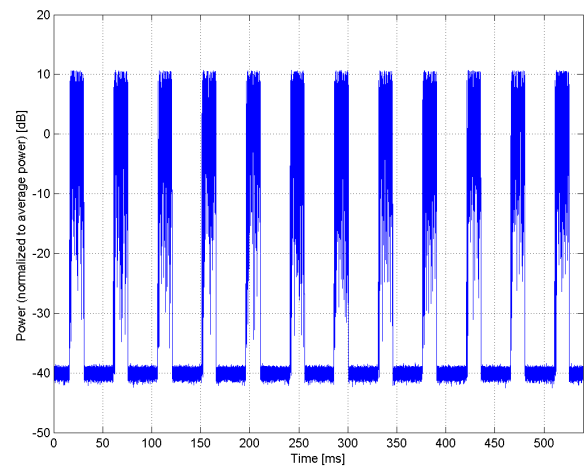
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



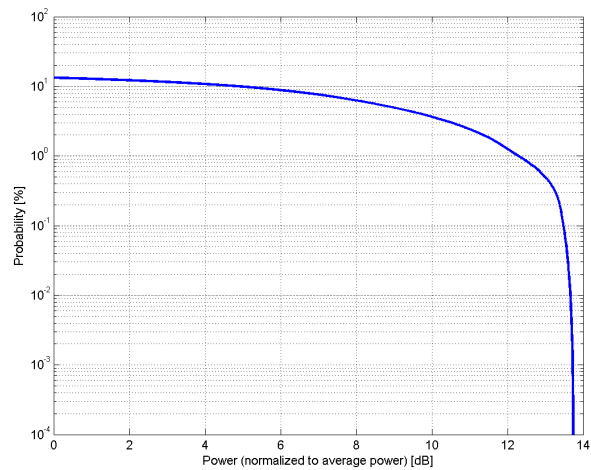
Time Domain

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

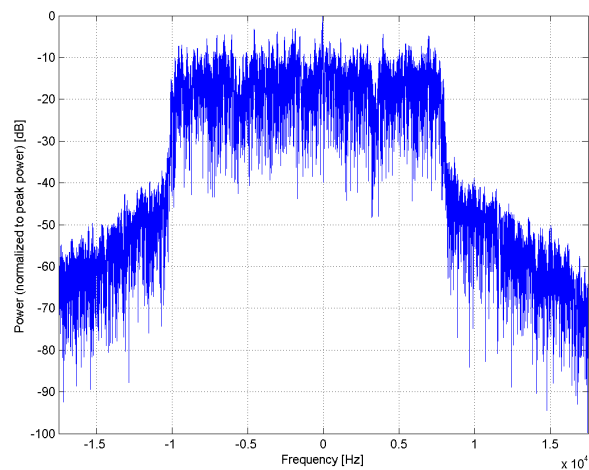
Name:	iDEN 1:6
Group:	iDEN
UID:	10314-AAA
PAR: ¹	13.48 dB
MIF: ²	4.03 dB
Standard Reference:	-
Category:	Periodic pulsed modulation
Modulation:	-
Frequency Band:	PMR 800 (806.0-825.0 MHz, 20071) PMR 900 (896.0-901.0 MHz, 20072) PMR 1450 (1453.0-1465.0 MHz, 20073)
Detailed Specification:	Train setting off
Bandwidth:	0.0 MHz
Integration Time:	540.0 ms

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

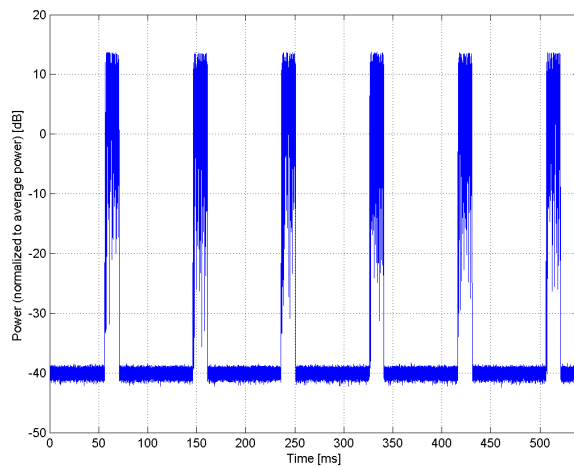
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)**

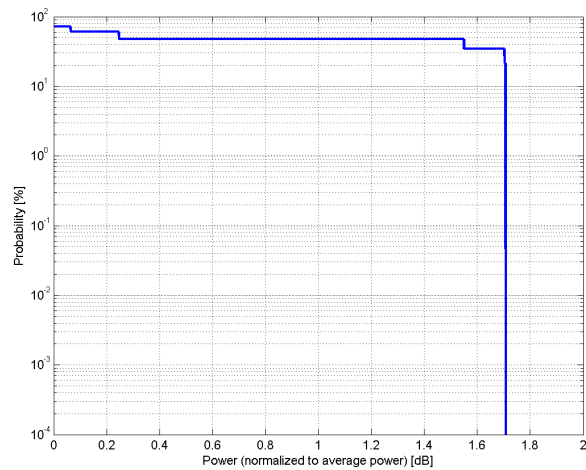
Group: WLAN
UID: 10315-AAA

PAR: ¹ **1.71 dB**
MIF: ² **-6.80 dB**

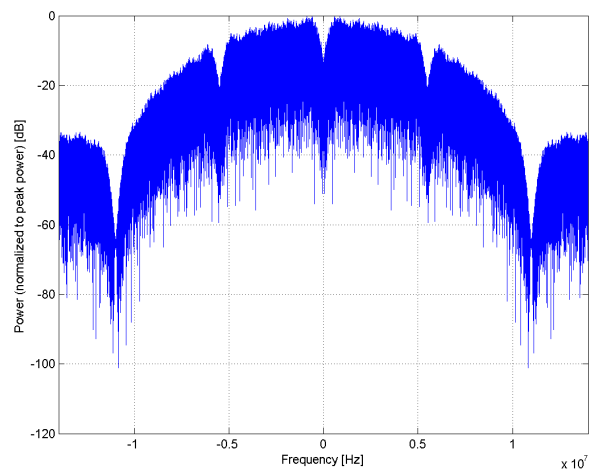
Standard Reference: IEEE 802.11b-1999 , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: DBPSK
Frequency Band: ISM 2.4 GHz-Band, Japan (2472.5-2495.5 MHz, 20030)
ISM 2.4 GHz Band, World but Japan (2401.5-2482.5 MHz,
20028)
Detailed Specification: Duty cycle: 96 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 1Mbps
Burst on time: 8384us
Bandwidth: 20.0 MHz
Integration Time: 8.7 ms

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

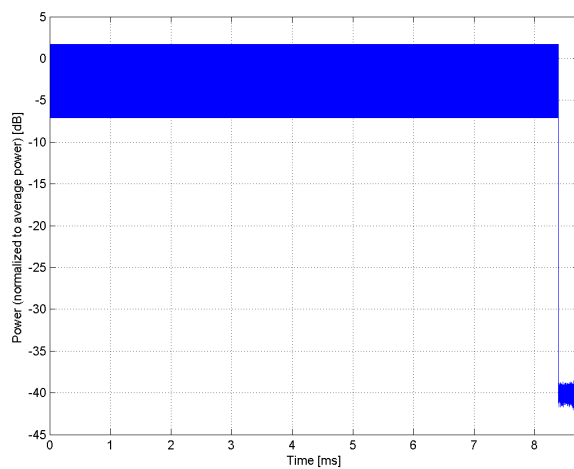
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

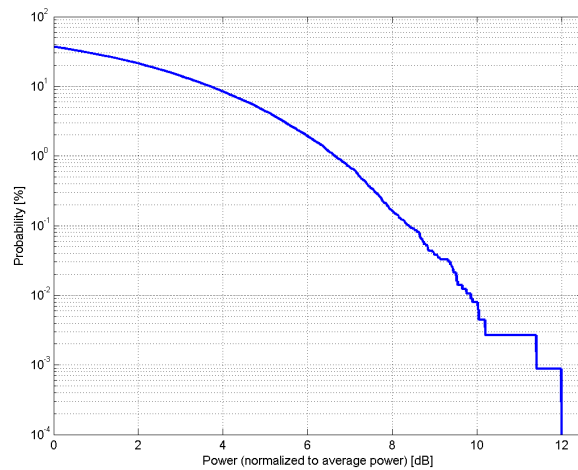


Time Domain

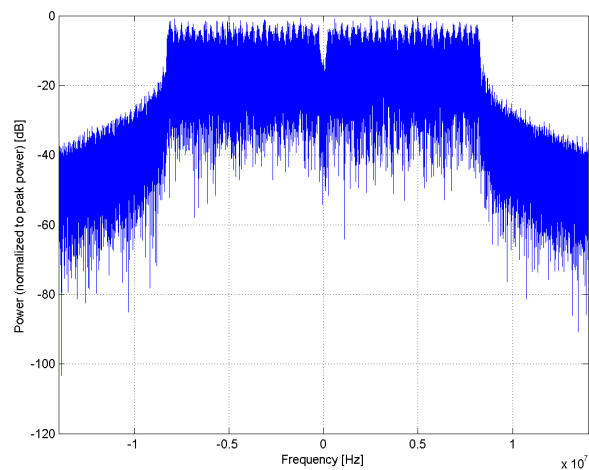
Name:	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)
Group:	WLAN
UID:	10316-AAA
PAR: ¹	8.36 dB
MIF: ²	-9.82 dB
Standard Reference:	IEEE 802.11g-2003 , Part 11 FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	ISM 2.4 GHz Band, World but Japan (2401.5-2482.5 MHz, 20028) ISM 2.4 GHz-Band, Japan (2472.5-2495.5 MHz, 20030)
Detailed Specification:	Duty cycle: 96 % PSDU length: 1000 bytes Frame format: ERP-OFDM Data Rate: 6Mbps Burst on time: 1360us
Bandwidth:	20.0 MHz
Integration Time:	1.4 ms

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

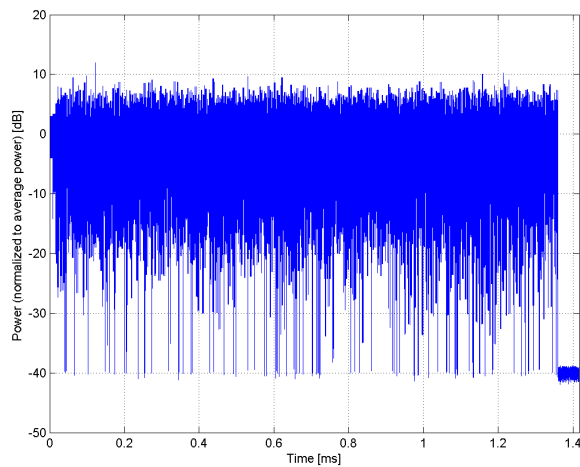
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Name: **IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)**

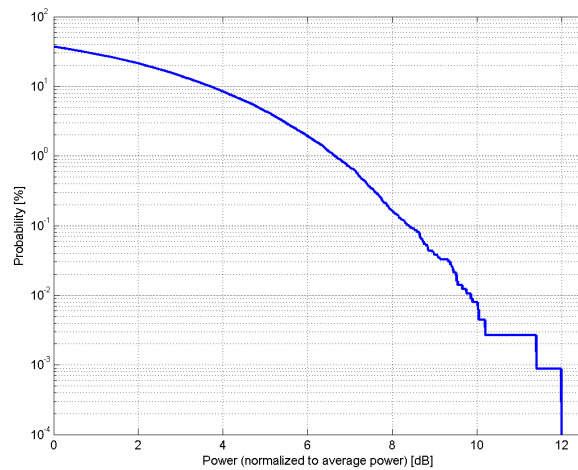
Group: WLAN
UID: 10317-AAA

PAR: ¹ **8.36 dB**
MIF: ² **-9.82 dB**

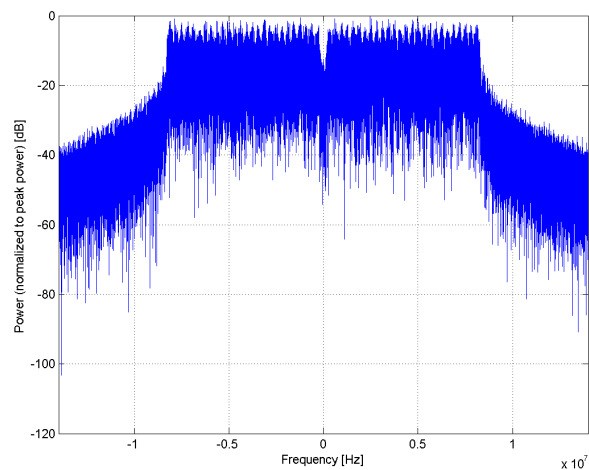
Standard Reference: IEEE 802.11a-1999 (R2003) , Part 11
FCC SAR meas for 802 11 a b g v01r02 (248227 D01)
Category: Random amplitude modulation
Modulation: BPSK
Frequency Band: 5 GHz Band (5030.0-5825.0 MHz, 20053)
Detailed Specification: Duty cycle: 96 %
PSDU length: 1000 bytes
Data Rate: 6Mbps
Burst on time: 1360us
Bandwidth: 20.0 MHz
Integration Time: 1.4 ms

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

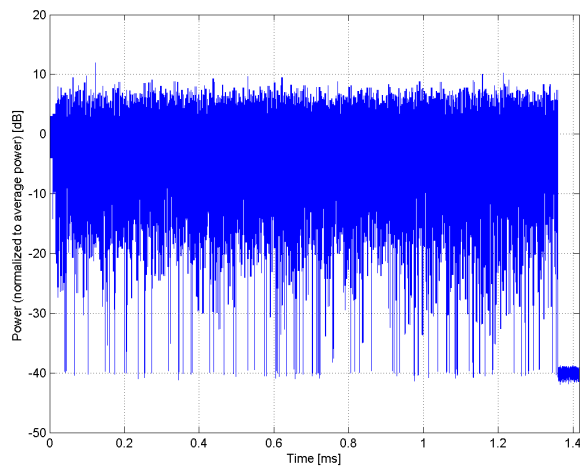
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain