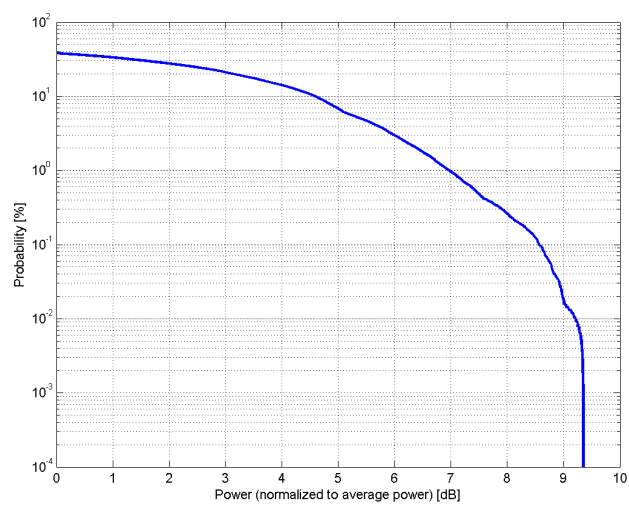
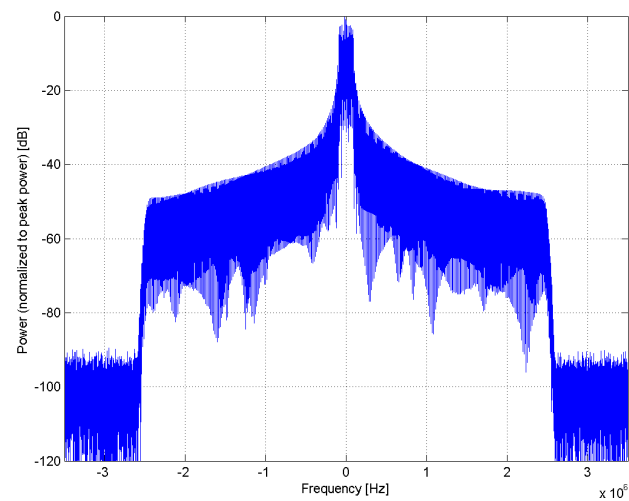
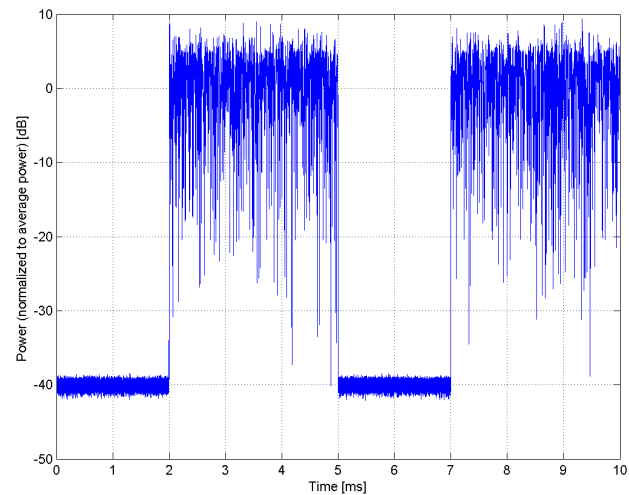




Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

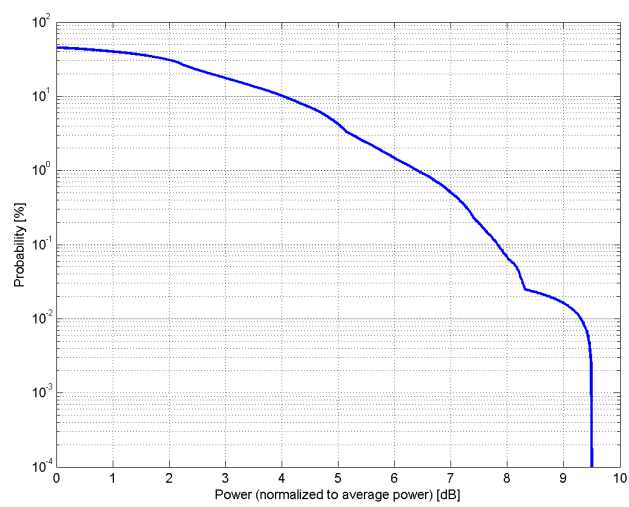
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

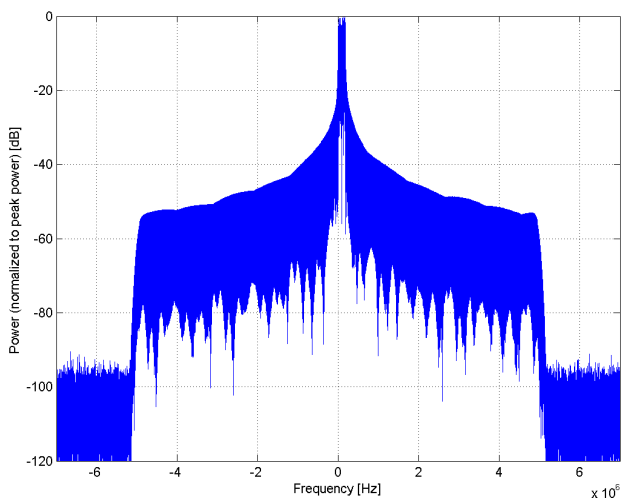
Name:	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10470-AAG
PAR: ¹	7.82 dB
MIF: ²	-3.41 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

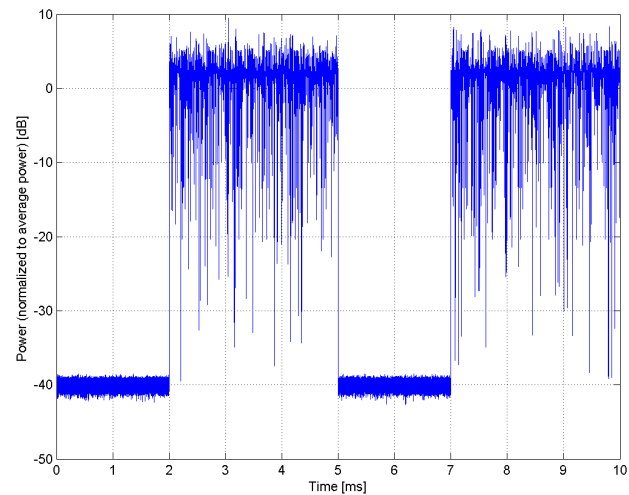
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

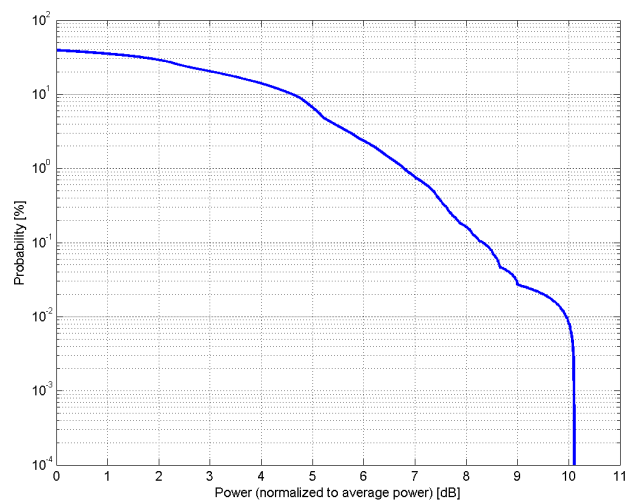
Calibration Laboratory of Schmid & Partner Engineering AG

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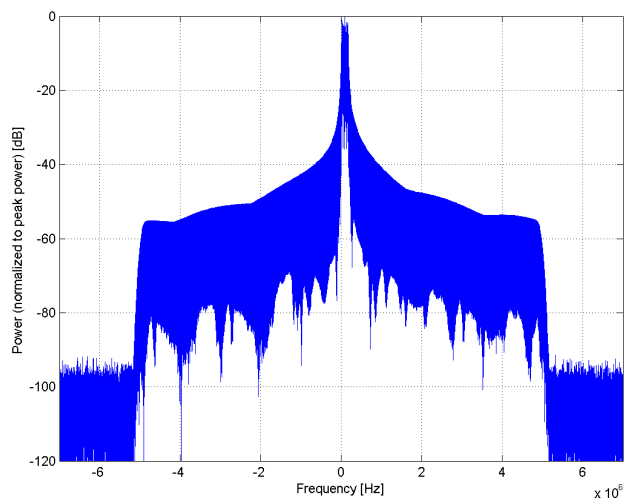
Name:	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10471-AAG
PAR: ¹	8.32 dB
MIF: ²	-3.17 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

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

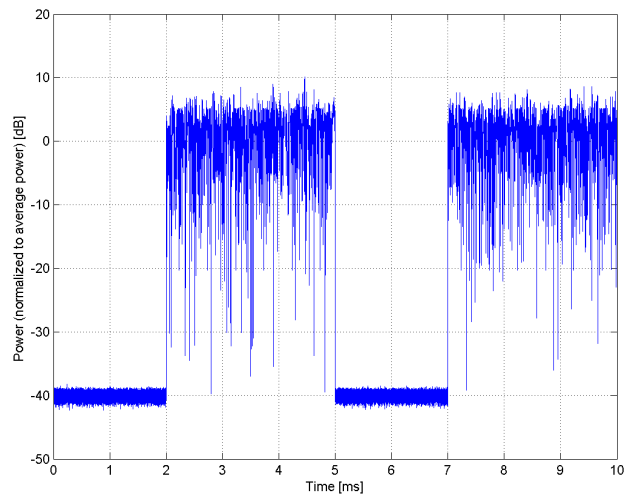
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



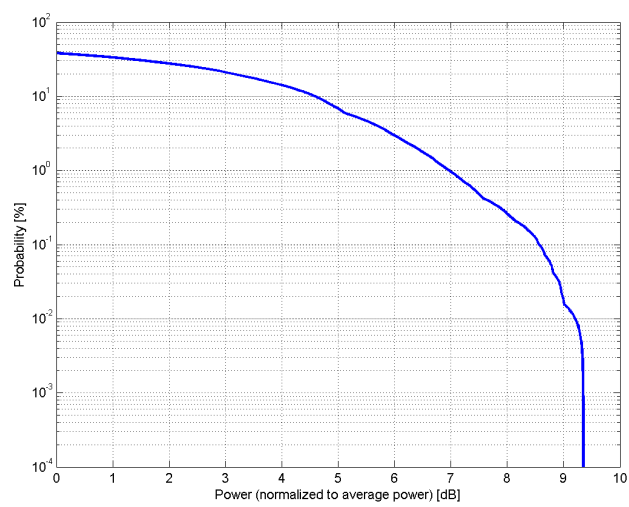
Time Domain

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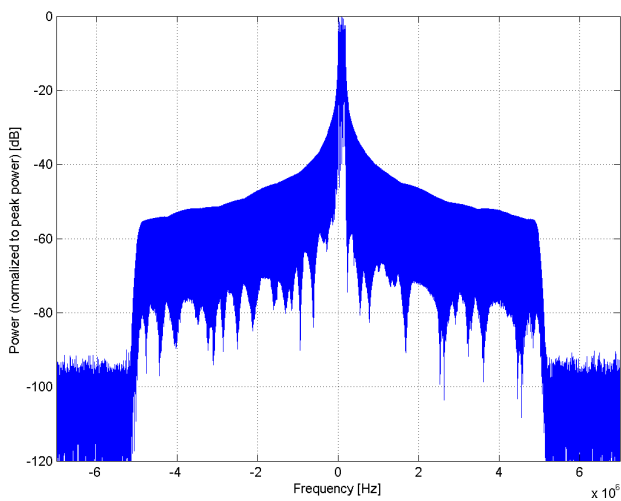
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10472-AAG
PAR: ¹	8.57 dB
MIF: ²	-3.31 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

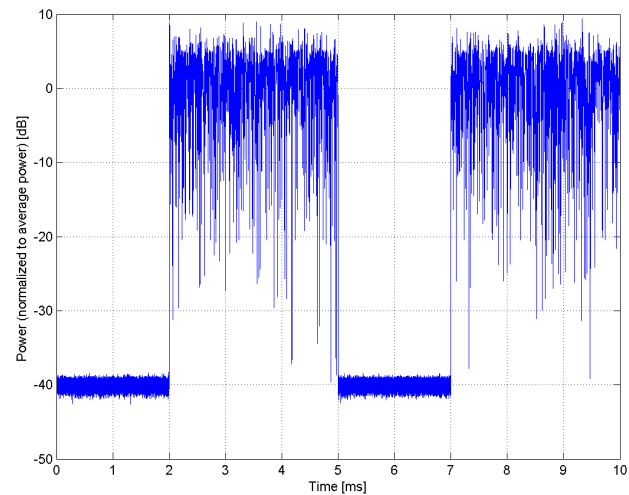
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

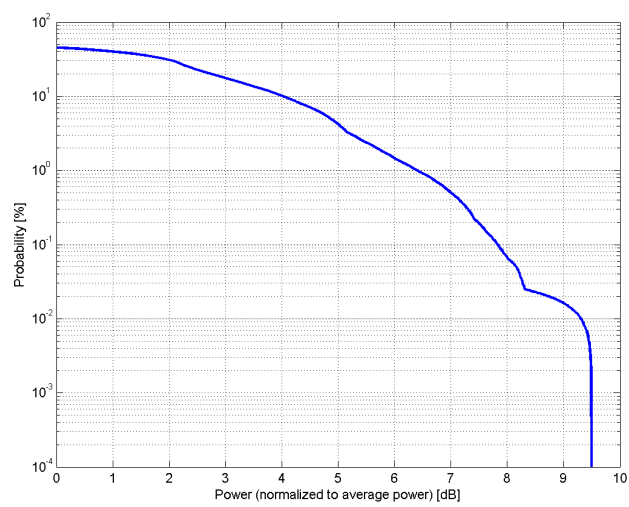
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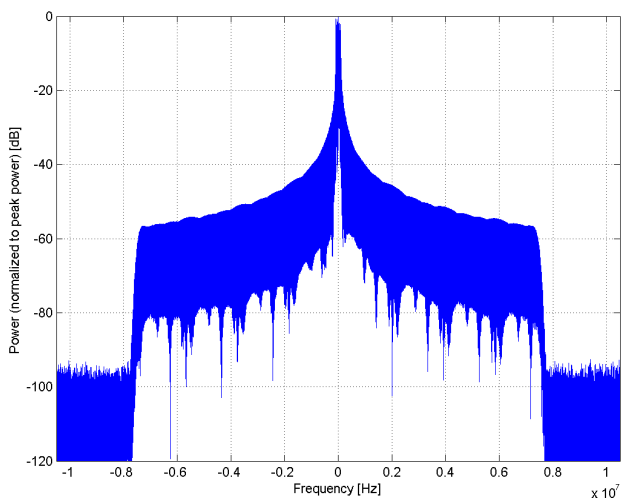
Name:	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10473-AAF
PAR: ¹	7.82 dB
MIF: ²	-3.41 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 37 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

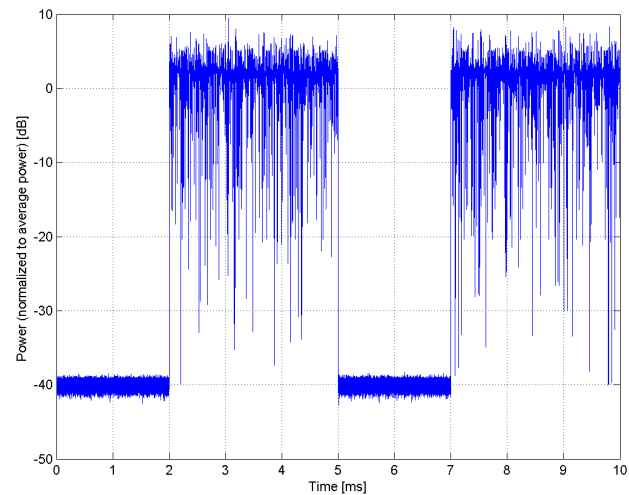
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

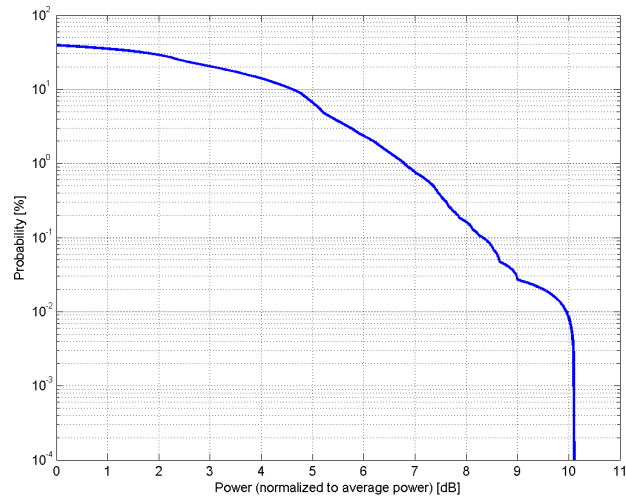
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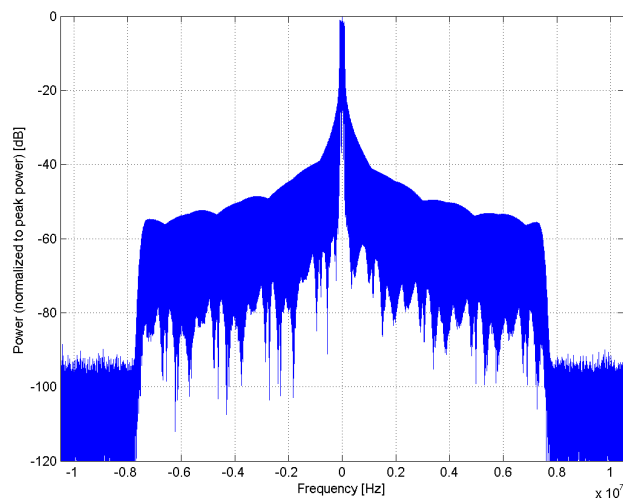
Name:	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10474-AAF
PAR: ¹	8.32 dB
MIF: ²	-3.17 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 37 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

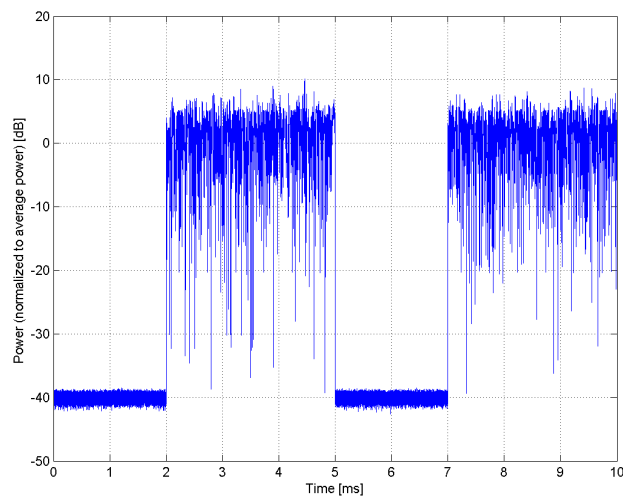
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

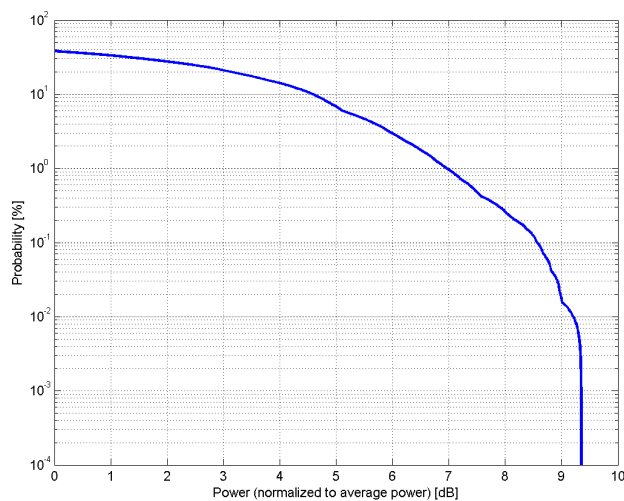
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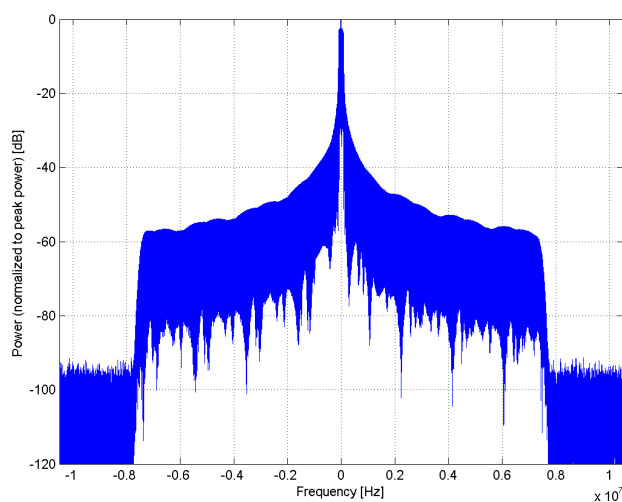
Name:	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10475-AAF
PAR: ¹	8.57 dB
MIF: ²	-3.31 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 37 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

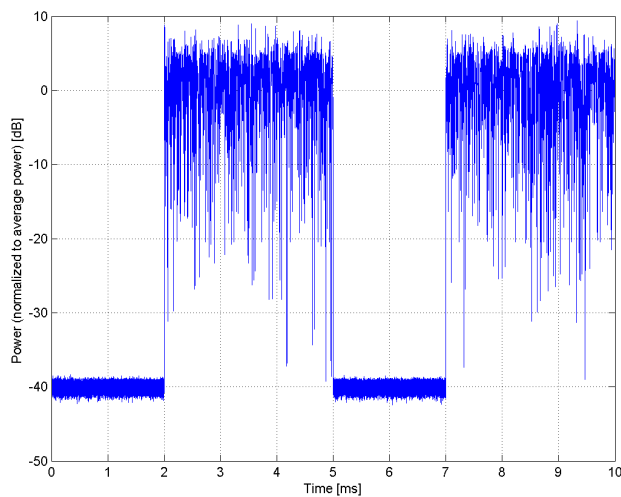
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

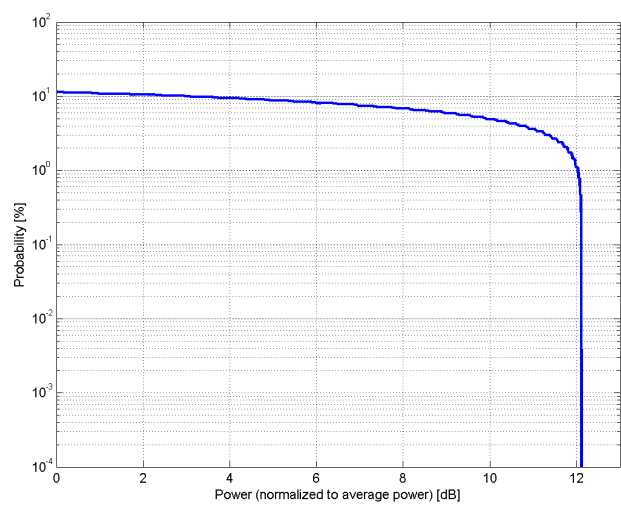


Time Domain

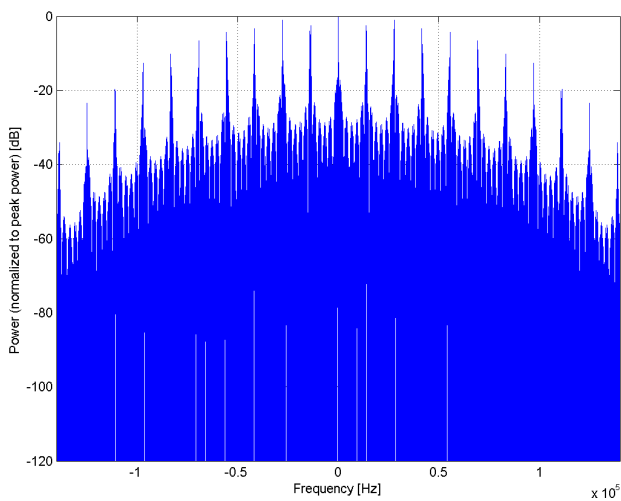
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	MRI (Custom, 600us, 2.7ms)
Group:	MRI
UID:	10476-AAC
PAR: ¹	12.10 dB
MIF: ²	-6.13 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Calibration Sequence for Medical Implant Test System (MITS)
Bandwidth:	0.2 MHz
Integration Time:	2.7 ms

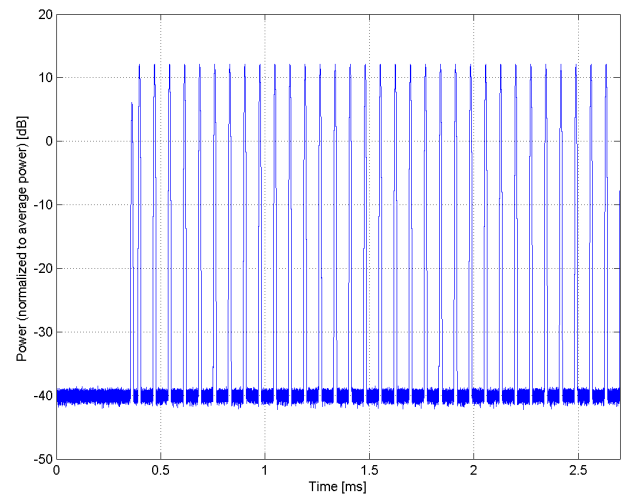
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



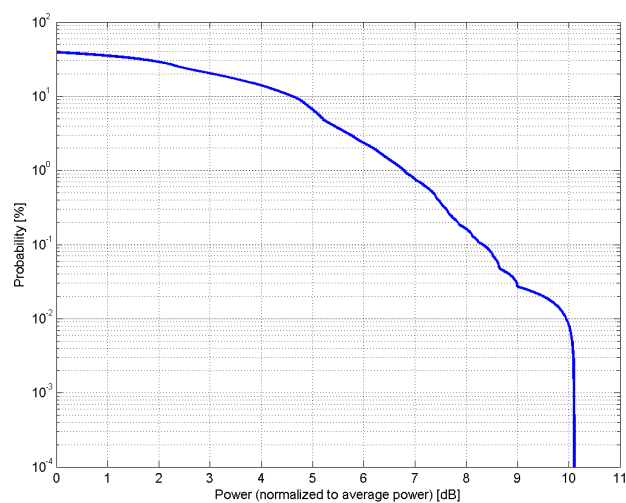
Time Domain

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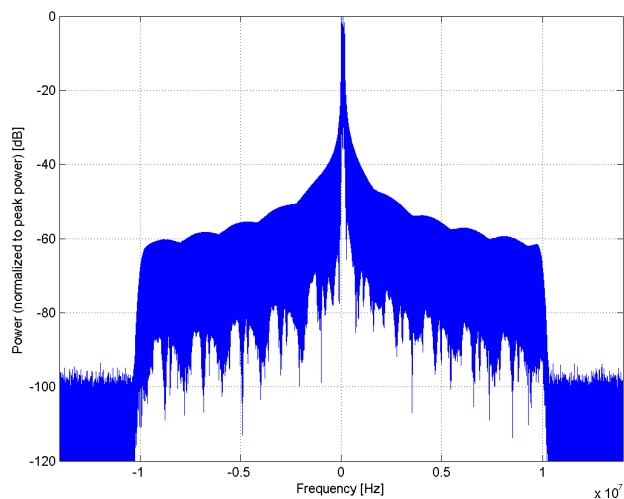
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10477-AAG
PAR: ¹	8.32 dB
MIF: ²	-3.17 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 50 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

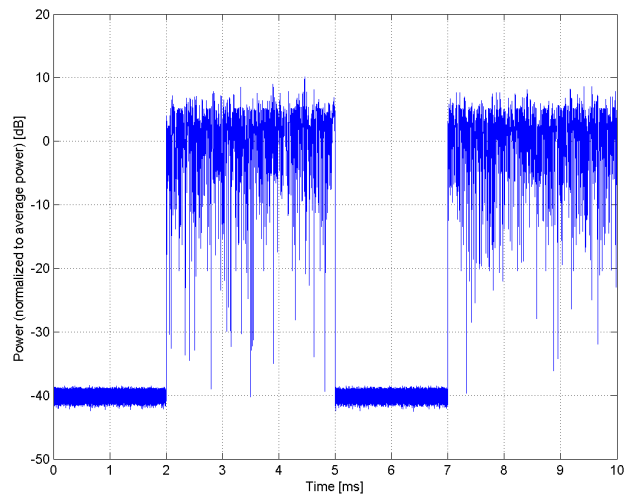
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



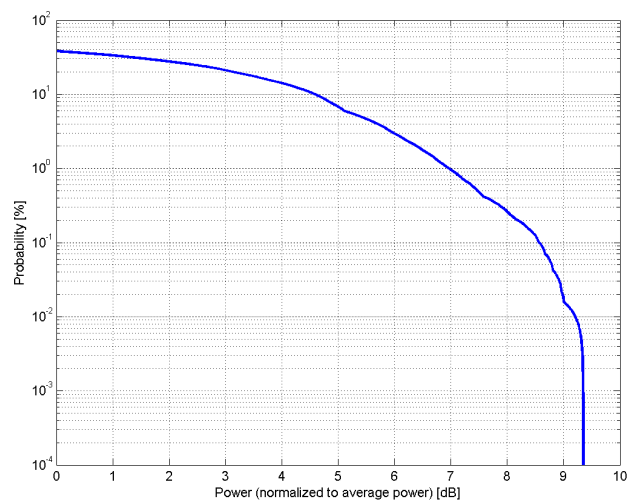
Time Domain

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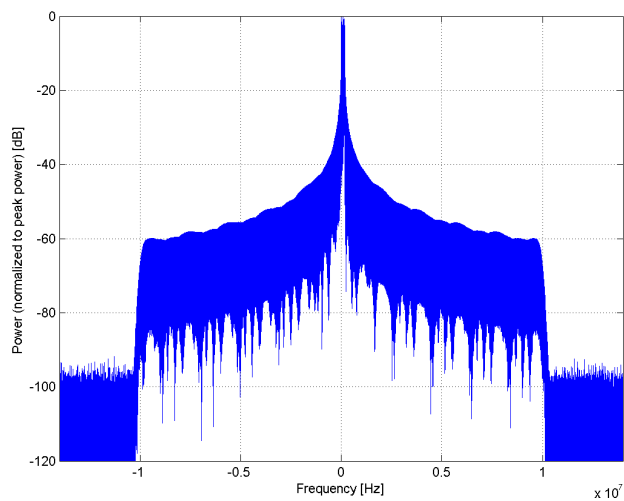
Name:	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10478-AAG
PAR: ¹	8.57 dB
MIF: ²	-3.31 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 1 Start Number of RB: 50 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

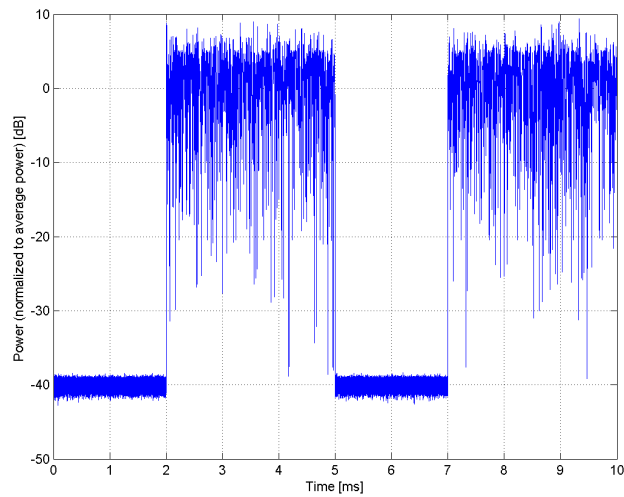
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



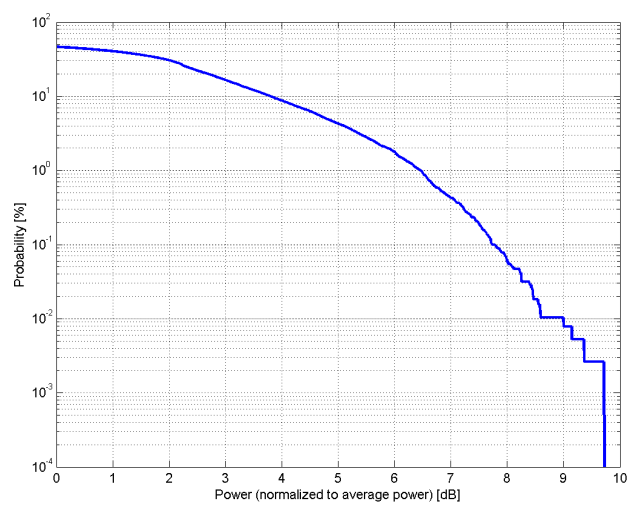
Time Domain

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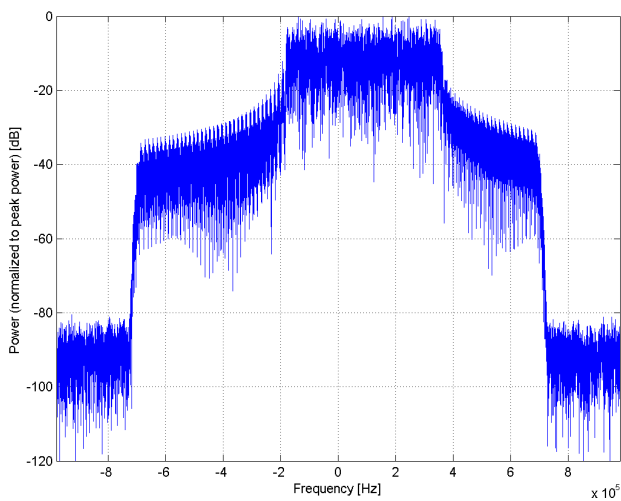
Name:	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10479-AAC
PAR: ¹	7.74 dB
MIF: ²	-3.41 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

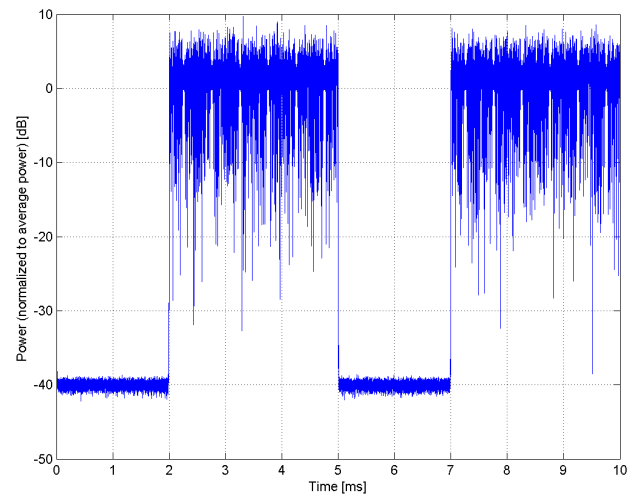
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



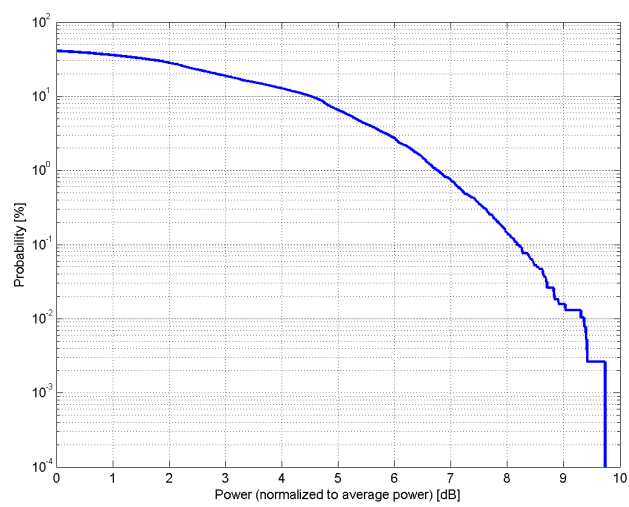
Time Domain

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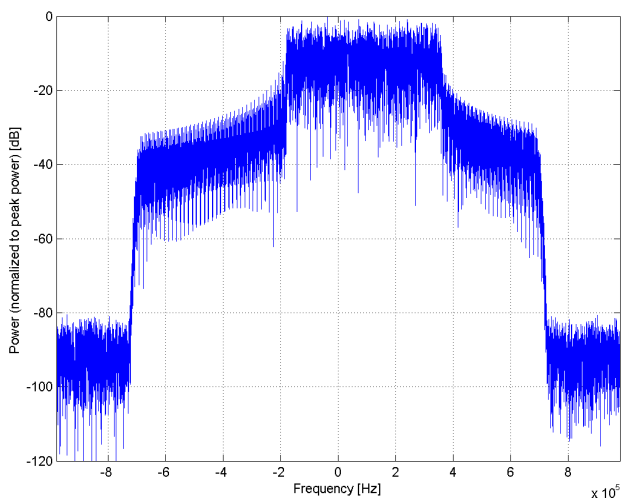
Name:	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10480-AAC
PAR: ¹	8.18 dB
MIF: ²	-3.37 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

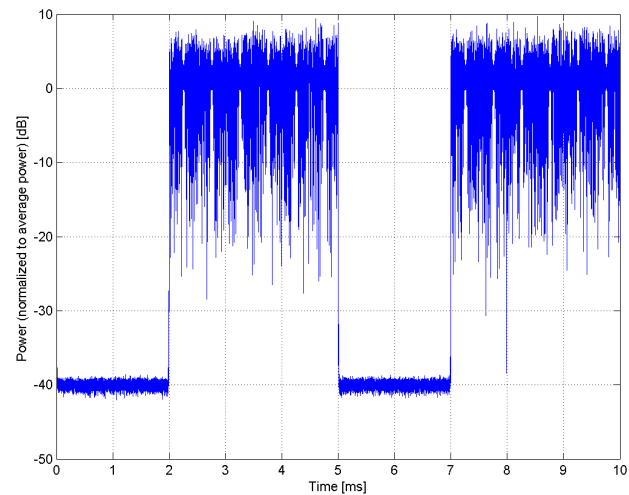
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



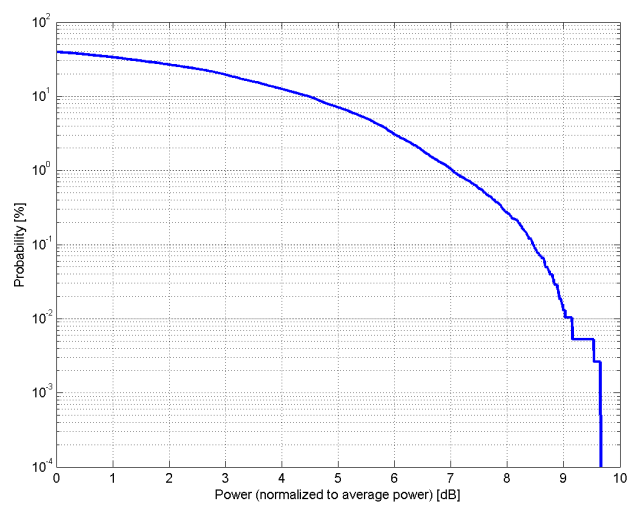
Time Domain

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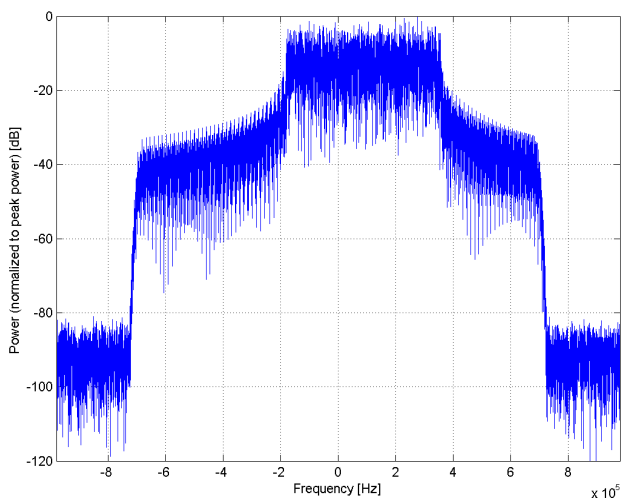
Name:	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10481-AAC
PAR: ¹	8.45 dB
MIF: ²	-3.31 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 3 Start Number of RB: 2 Data Type: PN9fix
Bandwidth:	1.4 MHz
Integration Time:	10.0 ms

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

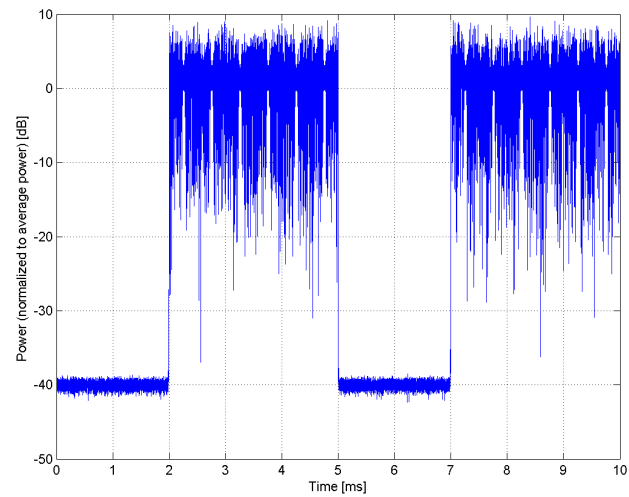
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



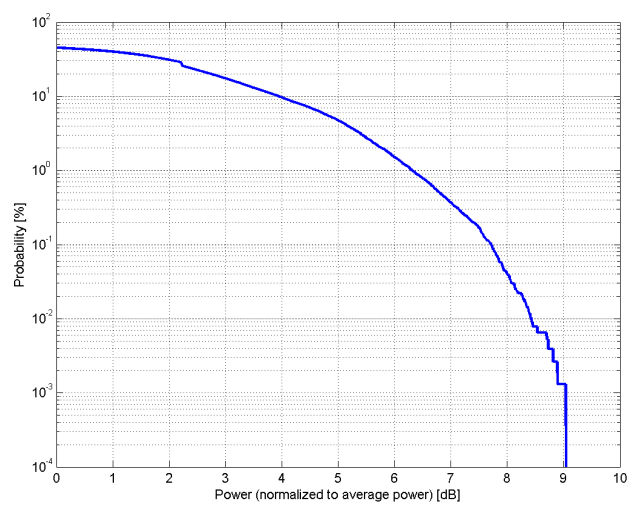
Time Domain

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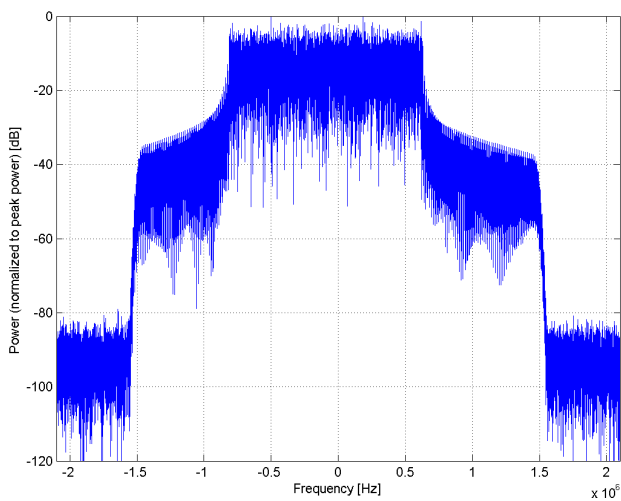
Name:	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10482-AAD
PAR: ¹	7.71 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 8 Start Number of RB: 3 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

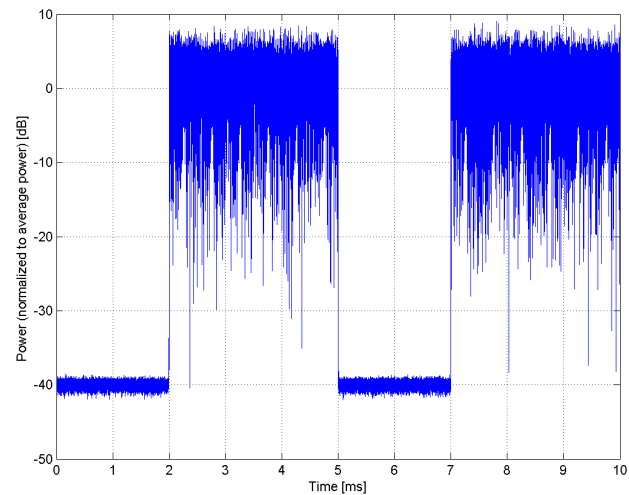
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



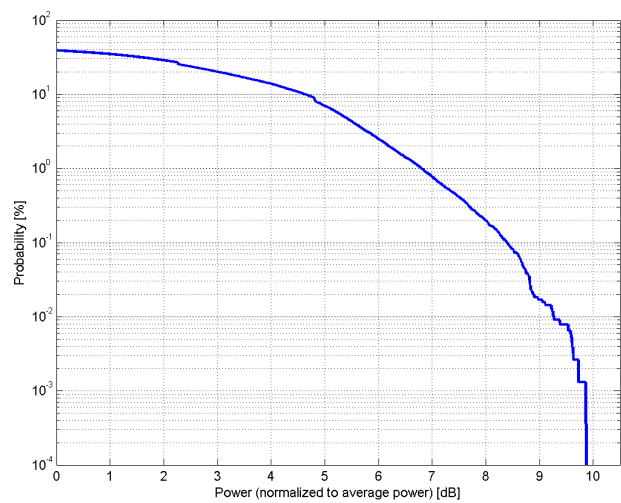
Time Domain

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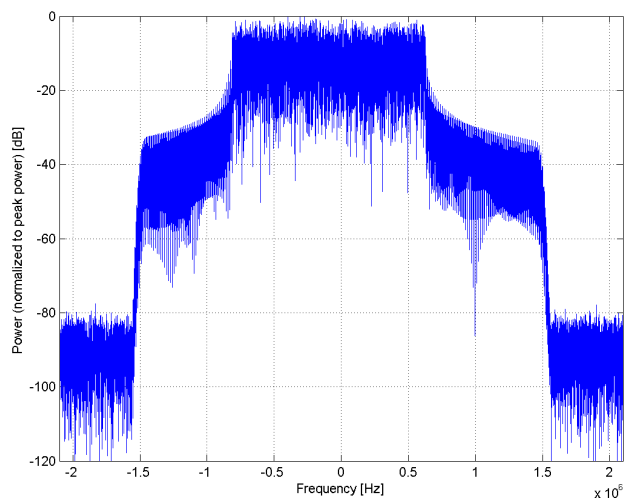
Name:	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10483-AAD
PAR: ¹	8.39 dB
MIF: ²	-3.46 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 8 Start Number of RB: 3 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

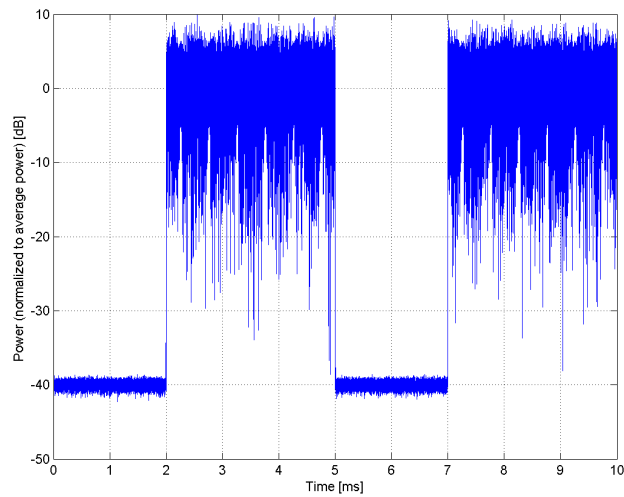
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



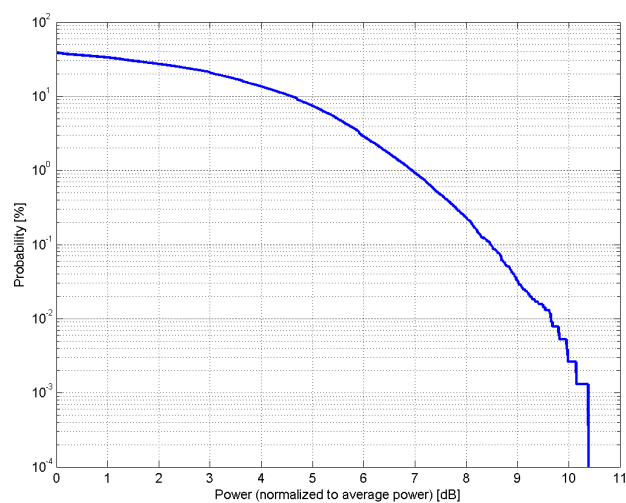
Time Domain

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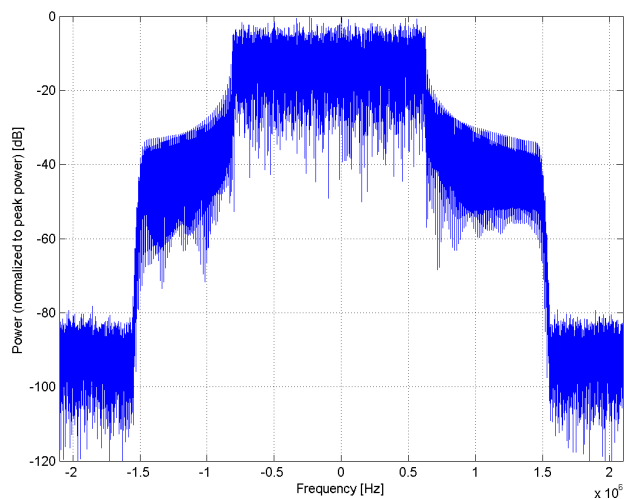
Name:	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10484-AAD
PAR: ¹	8.47 dB
MIF: ²	-3.43 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 8 Start Number of RB: 3 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

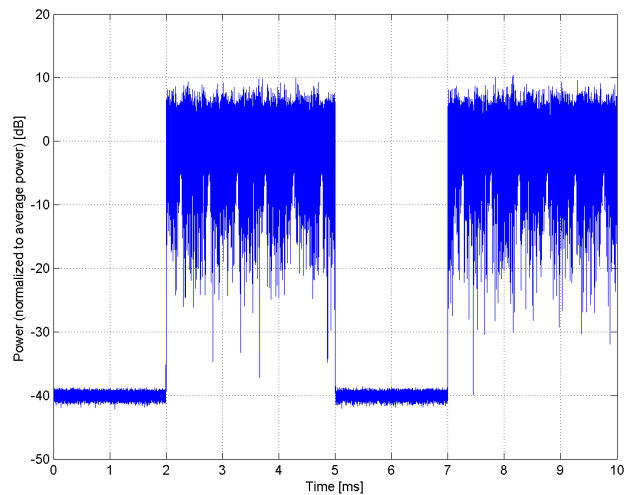
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



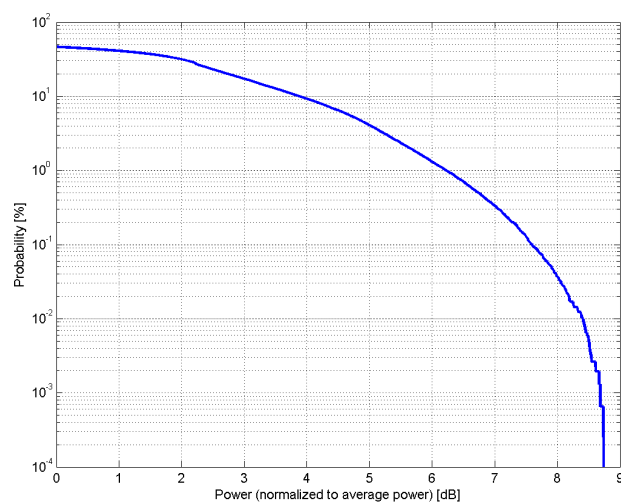
Time Domain

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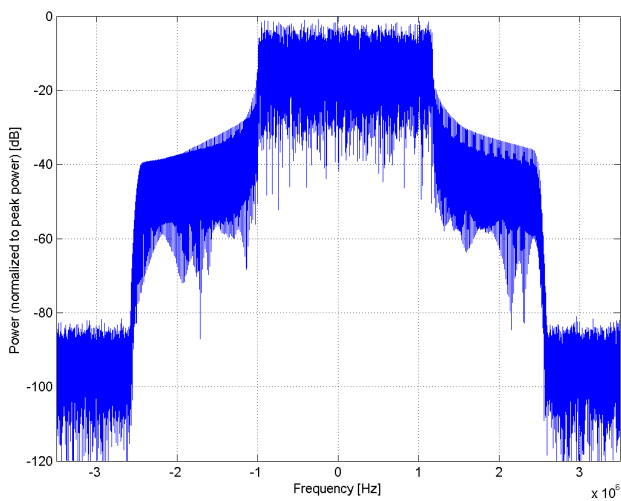
Name:	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10485-AAG
PAR: ¹	7.59 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

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

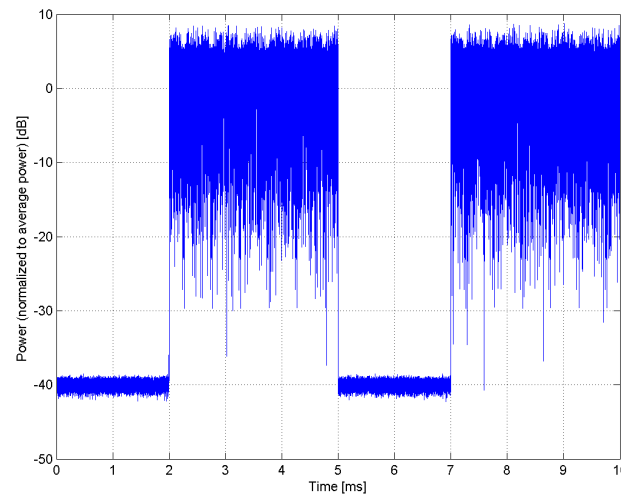
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



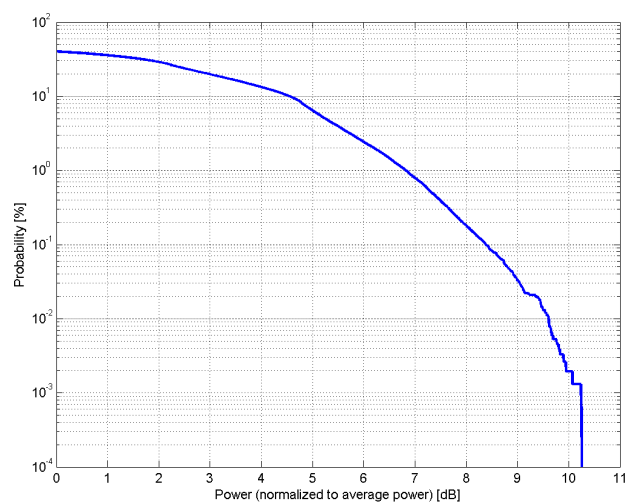
Time Domain

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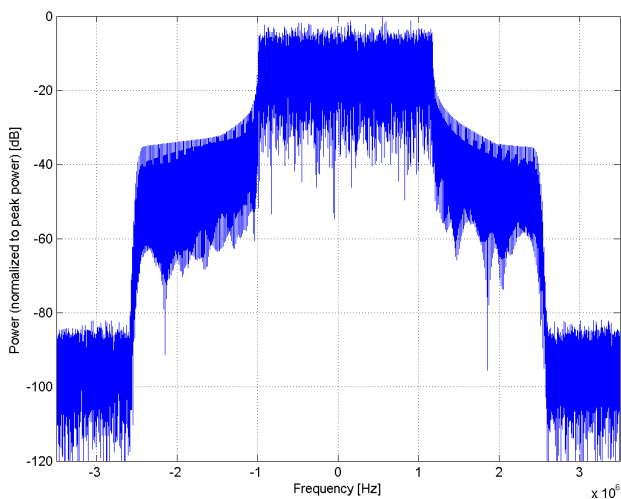
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10486-AAG
PAR: ¹	8.38 dB
MIF: ²	-3.46 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

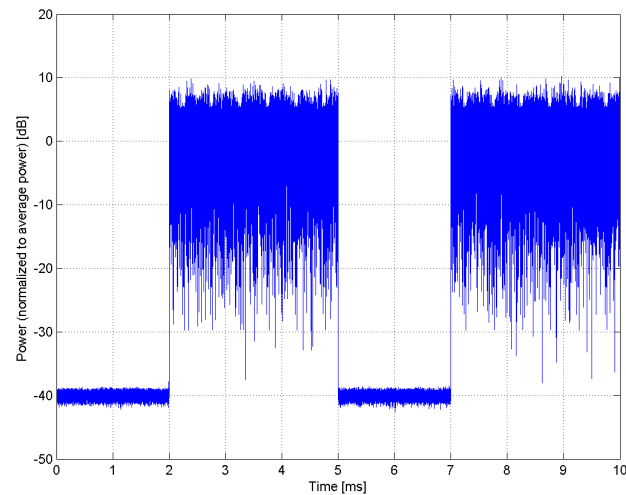
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



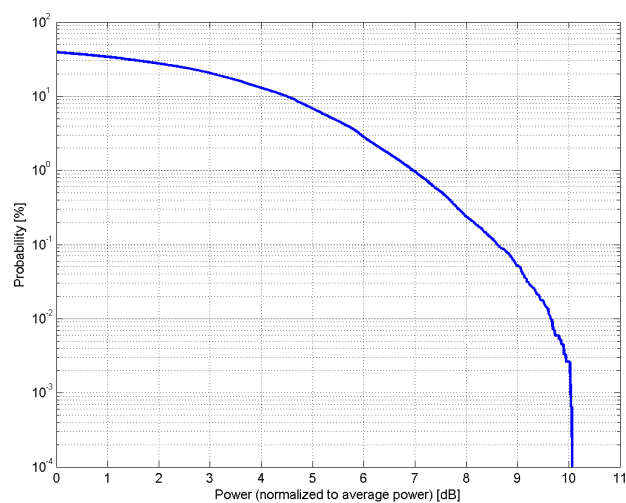
Time Domain

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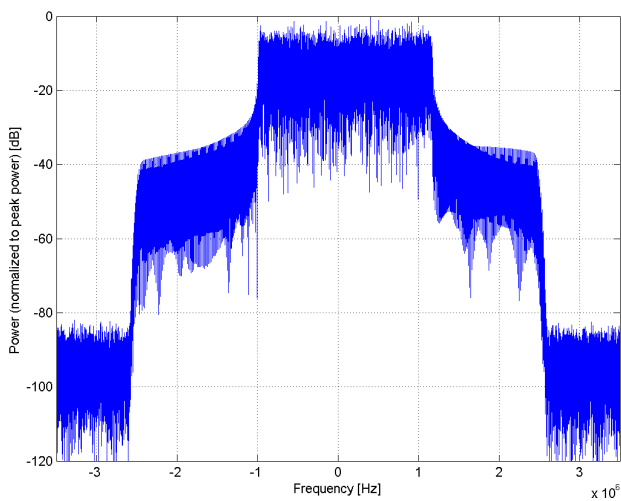
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10487-AAG
PAR: ¹	8.60 dB
MIF: ²	-3.33 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 12 Start Number of RB: 7 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

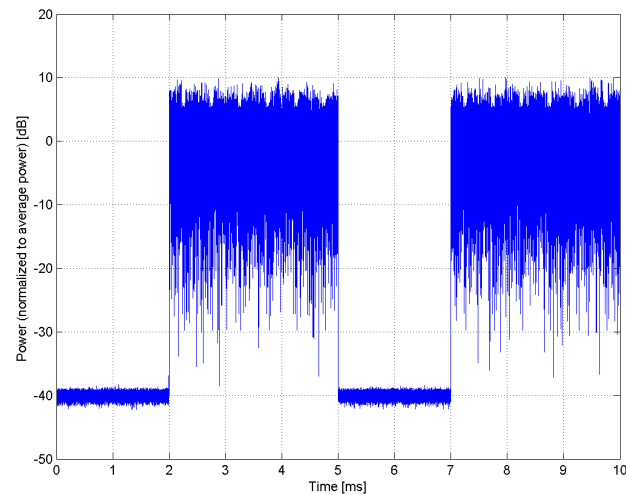
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



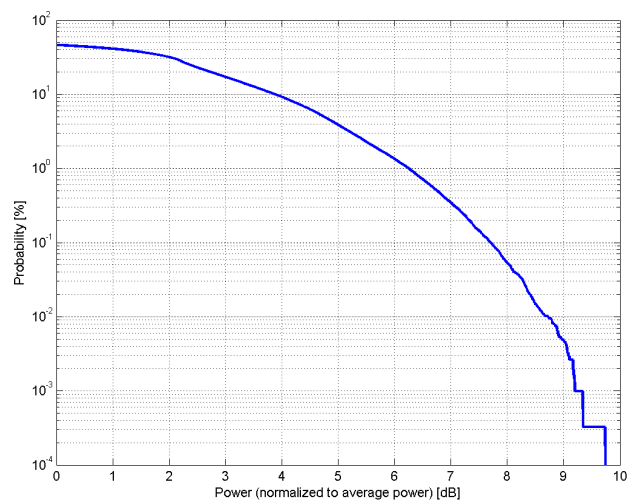
Time Domain

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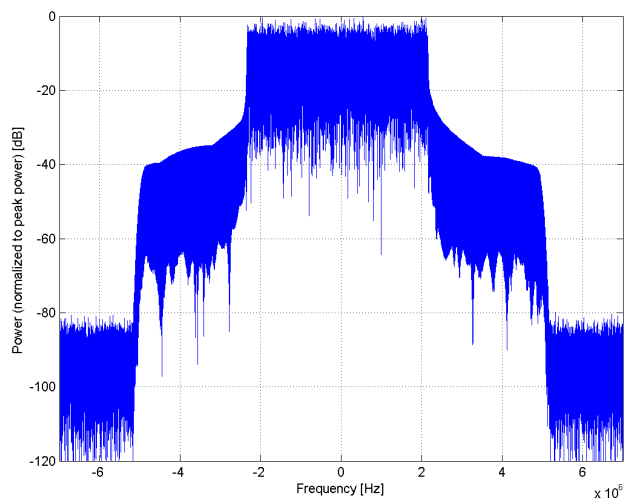
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10488-AAG
PAR: ¹	7.70 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 13 Data Type: PN9fix
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

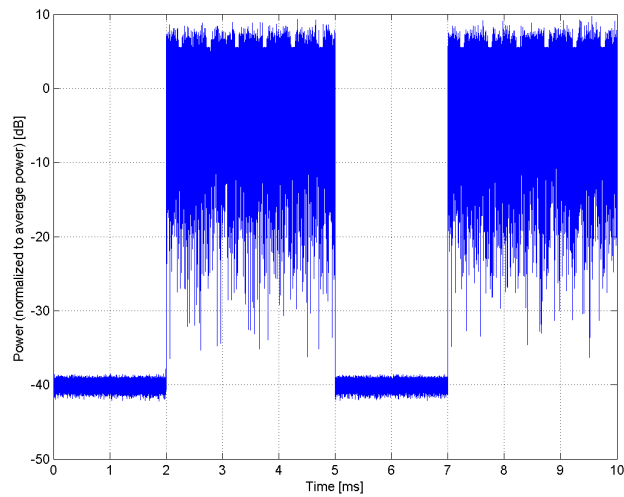
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10489-AAG

PAR: ¹ **8.31 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

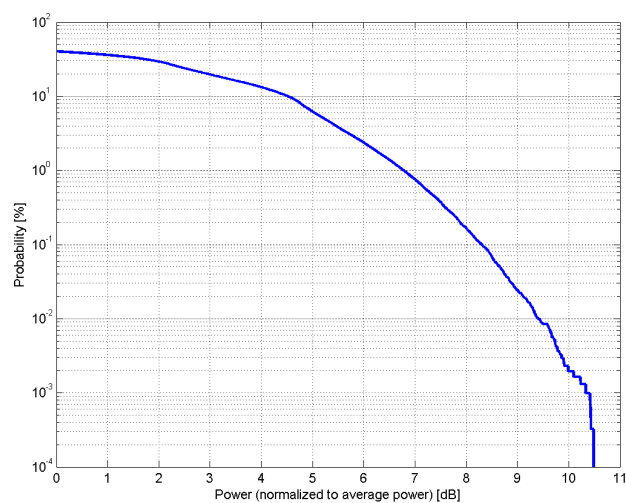
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 13
Data Type: PN9fix

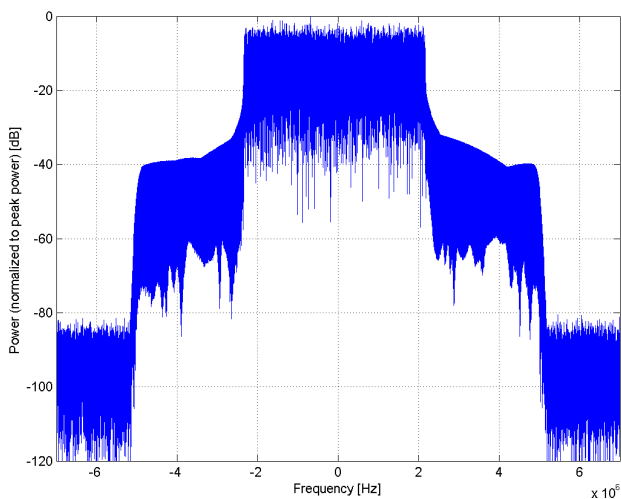
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

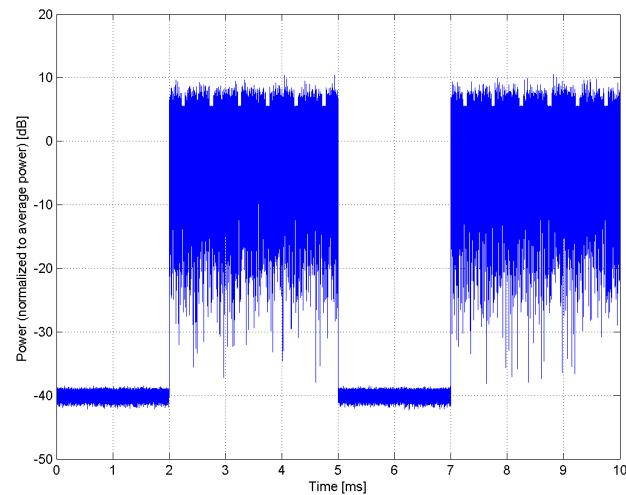
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10490-AAG

PAR: ¹ **8.54 dB**
MIF: ² **-3.41 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

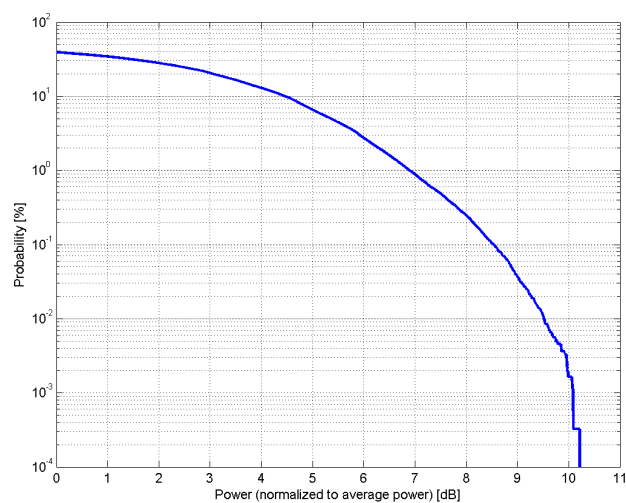
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 13
Data Type: PN9fix

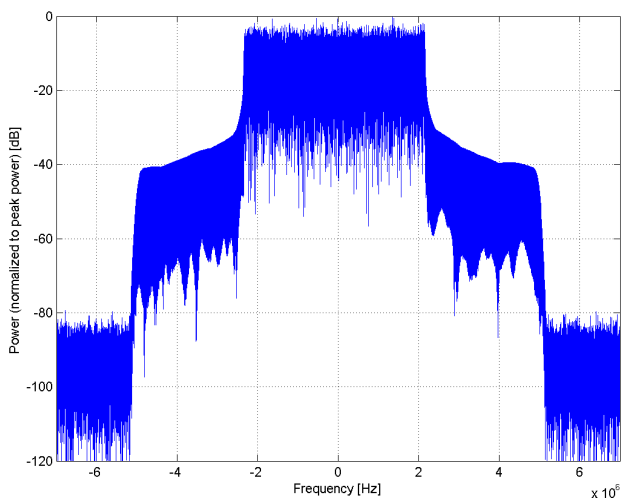
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

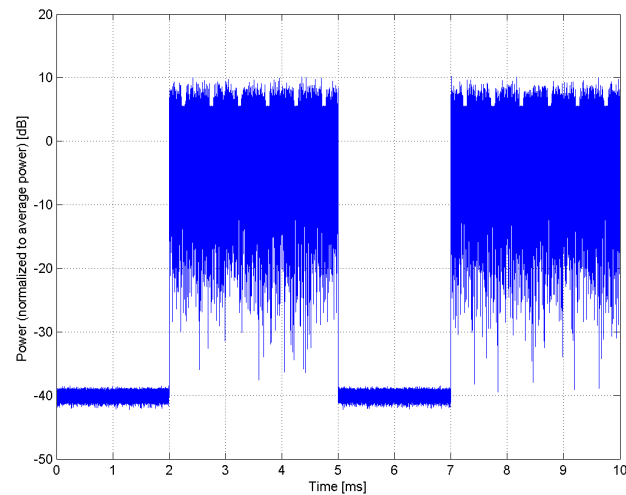
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

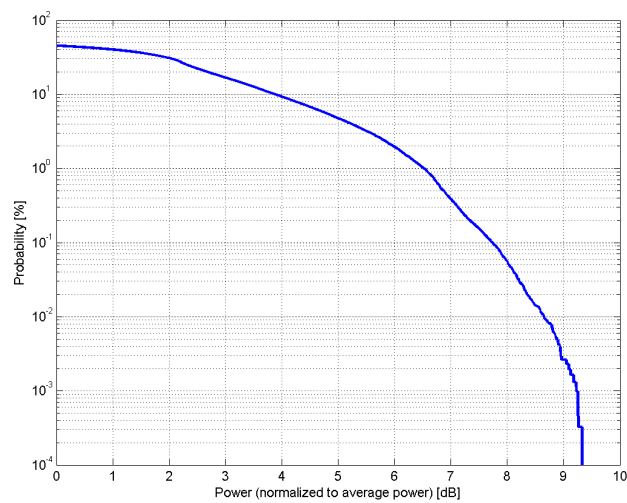
Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

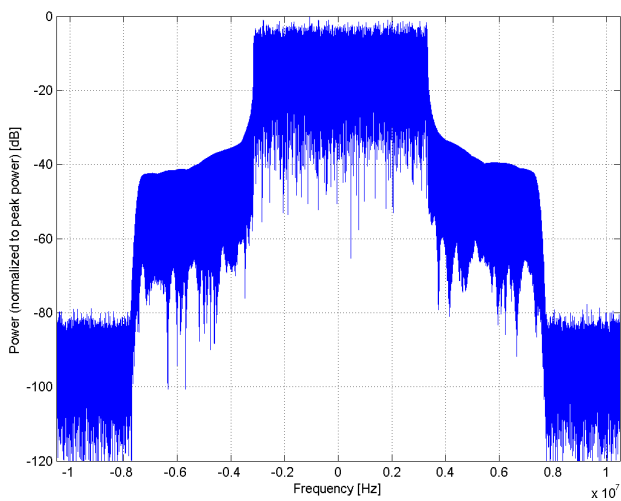
Name:	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10491-AAF
PAR: ¹	7.74 dB
MIF: ²	-3.42 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 36 Start Number of RB: 20 Data Type: PN9fix
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

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

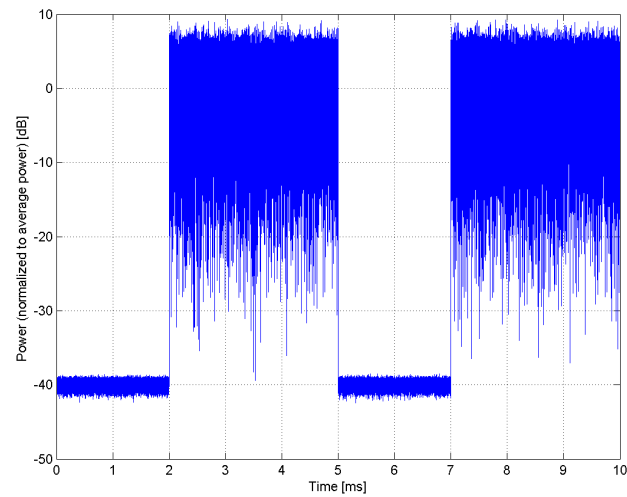
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10492-AAF

PAR: ¹ **8.41 dB**
MIF: ² **-3.43 dB**

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

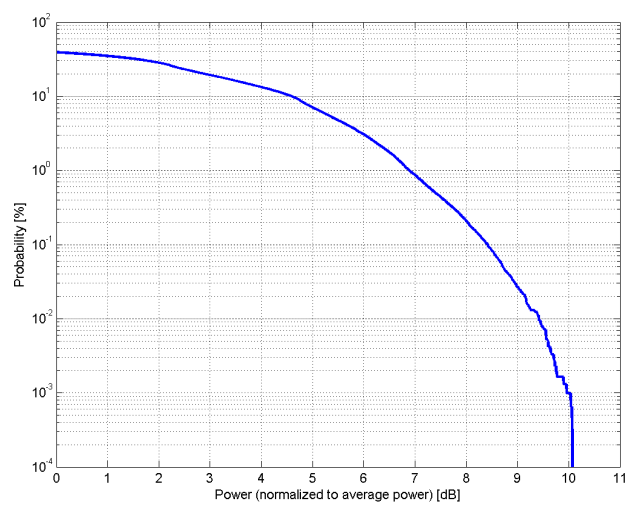
Category: Random amplitude modulation
Modulation: 16-QAM

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

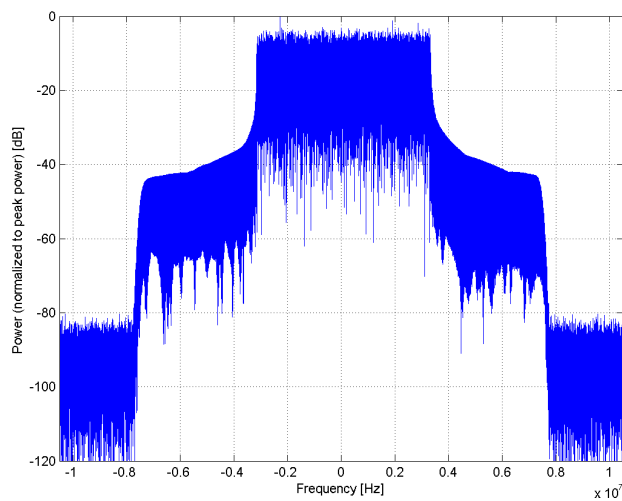
Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

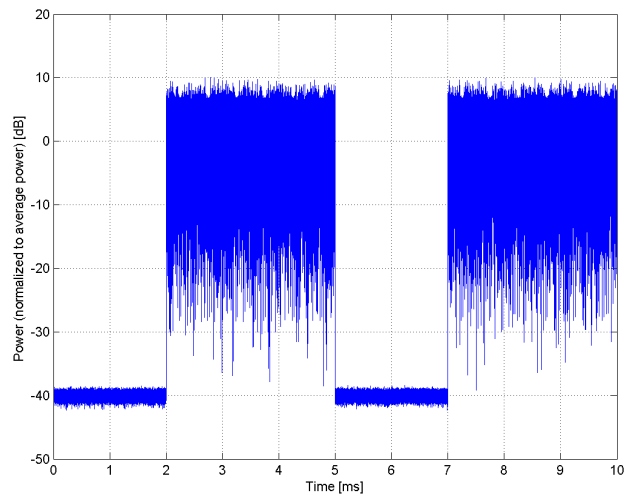
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10493-AAF

PAR: ¹ **8.55 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

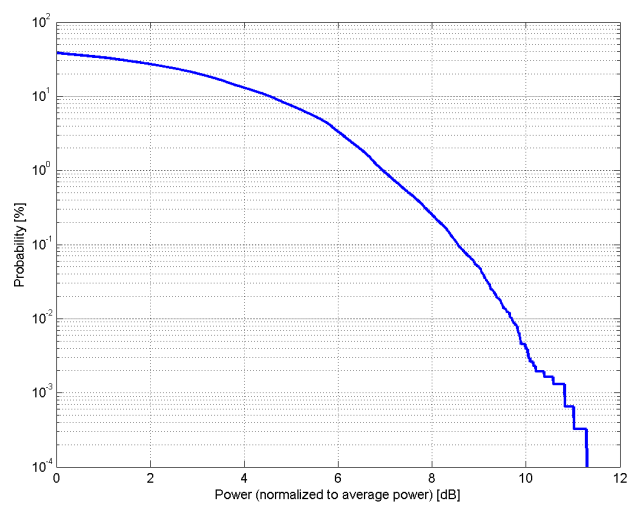
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 36
Start Number of RB: 20
Data Type: PN9fix

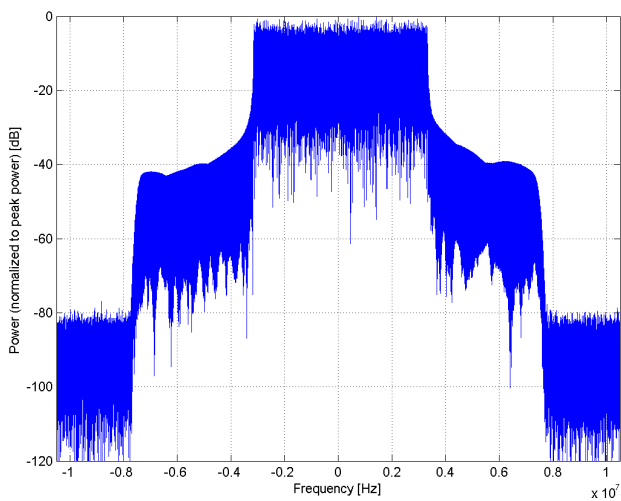
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

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

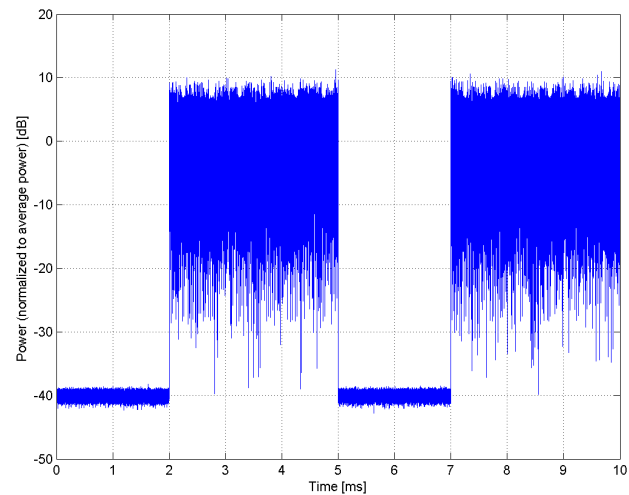
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



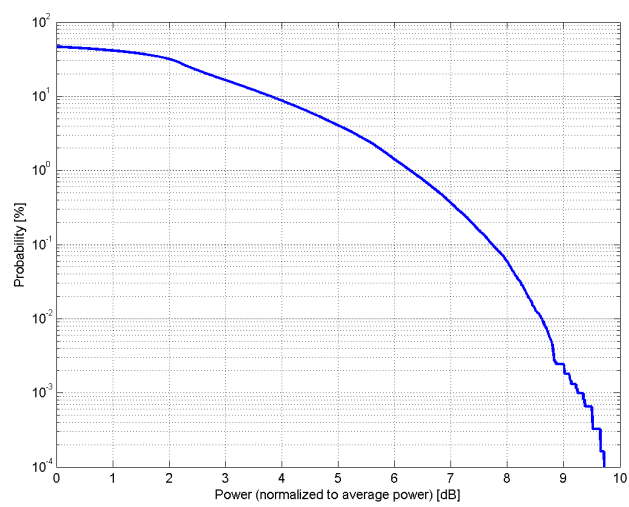
Time Domain

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

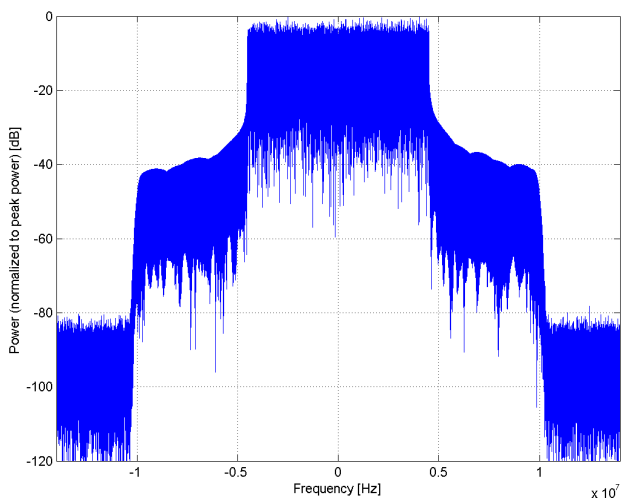
Name:	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10494-AAG
PAR: ¹	7.74 dB
MIF: ²	-3.39 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 46 (5150.0 - 5925.0 MHz) Band 47 (5855.0 - 5925.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 49 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 50 Start Number of RB: 25 Data Type: PN9fix
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

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

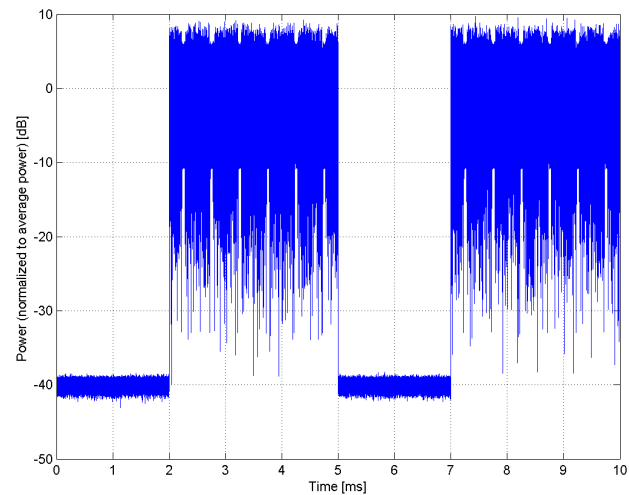
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10495-AAG

PAR: ¹ **8.37 dB**
MIF: ² **-3.41 dB**

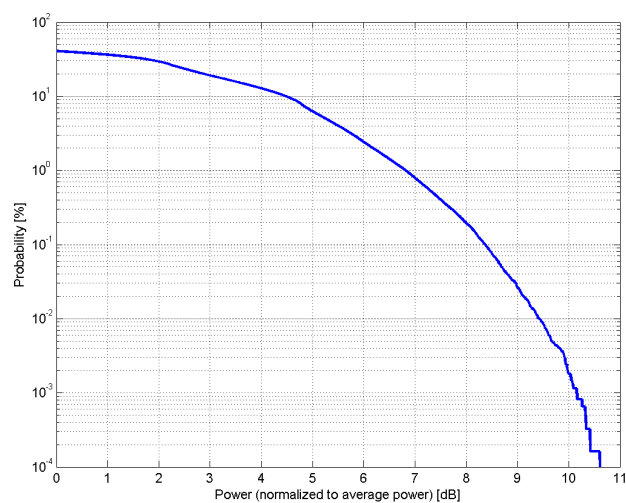
Standard Reference: 3GPP / ETSI TS 136.101 V8.4.0
3GPP / ETSI TS 136.213 V8.4.0
FCC OET KDB 941225 D05 SAR for LTE Devices v01

Category: Random amplitude modulation
Modulation: 16-QAM

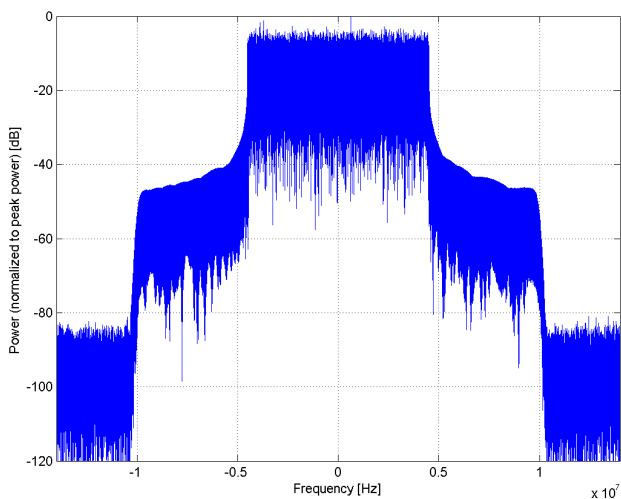
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

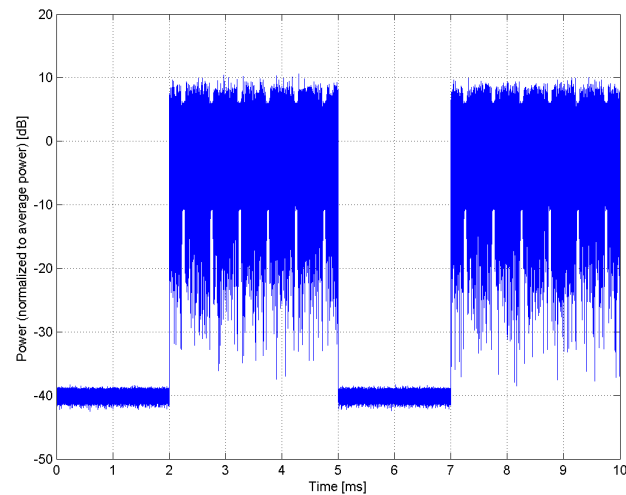
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10496-AAG

PAR: ¹ **8.54 dB**
MIF: ² **-3.43 dB**

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

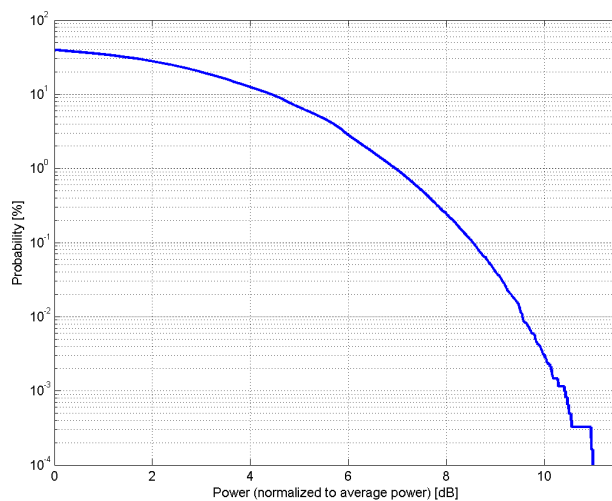
Category: Random amplitude modulation
Modulation: 64-QAM

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

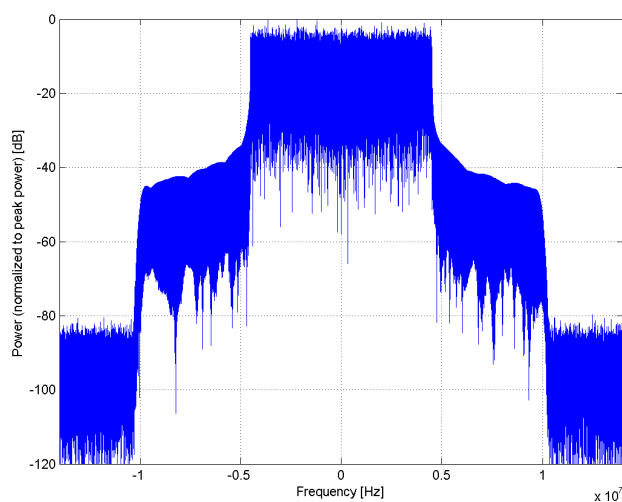
Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 25
Data Type: PN9fix
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

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

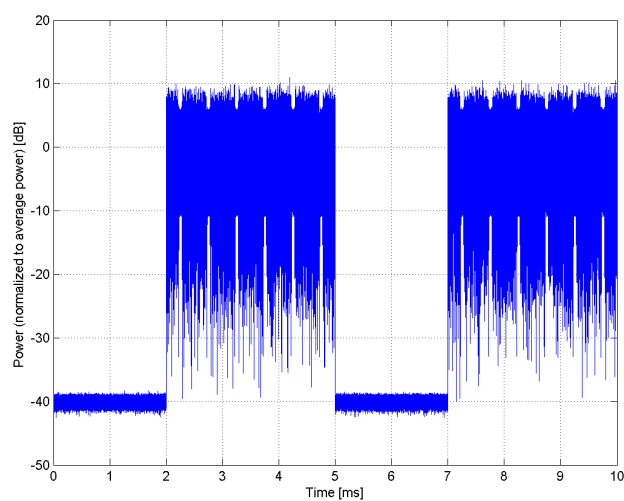
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10497-AAC

PAR: ¹ **7.67 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: QPSK

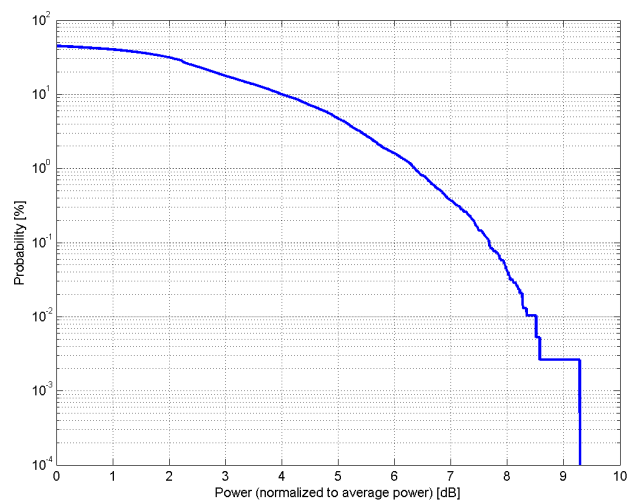
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

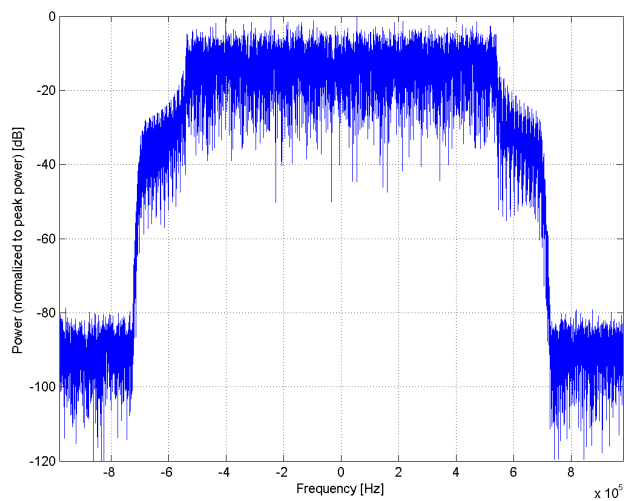
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

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

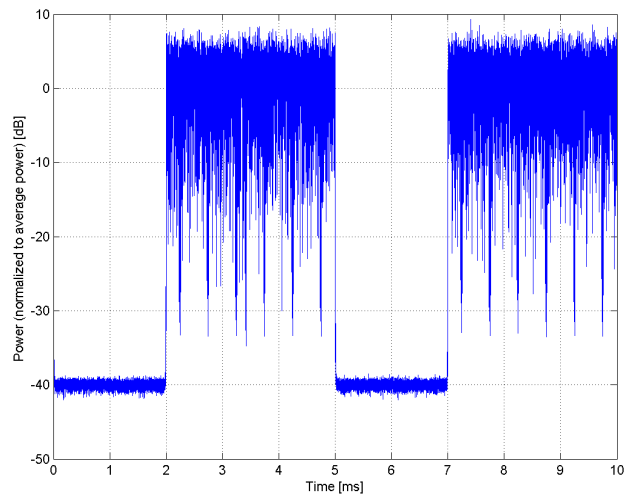
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10498-AAC

PAR: ¹ **8.40 dB**
MIF: ² **-3.46 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

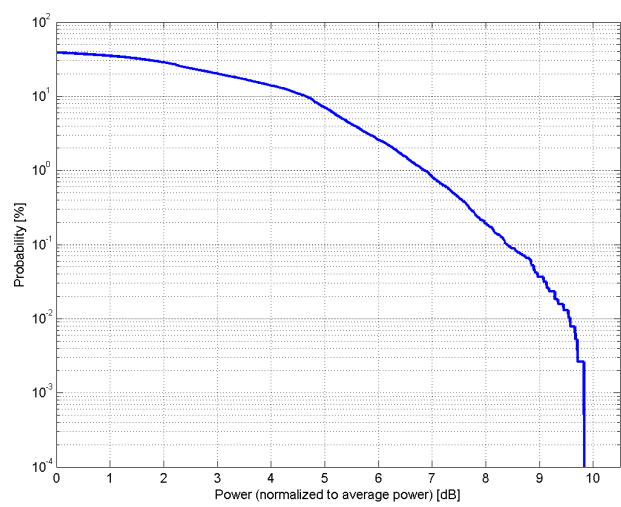
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

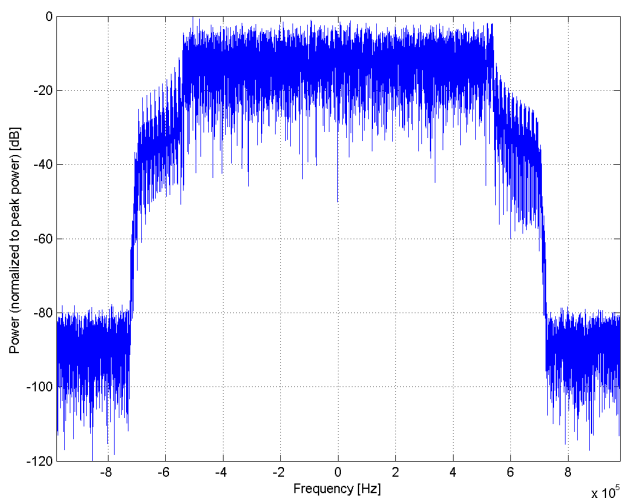
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

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

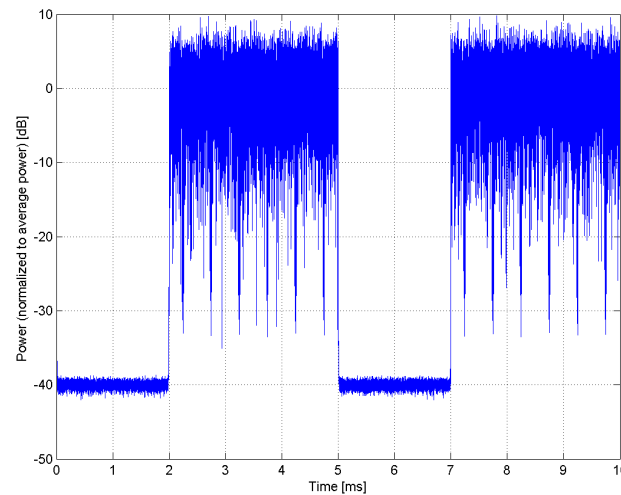
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10499-AAC

PAR: ¹ **8.68 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

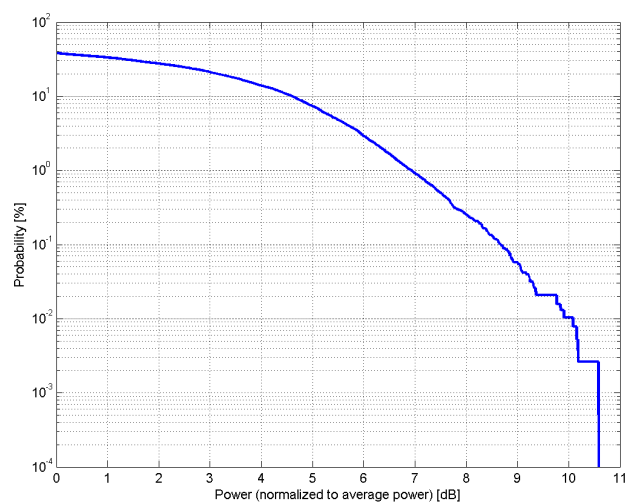
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 6
Start Number of RB: 0
Data Type: PN9fix

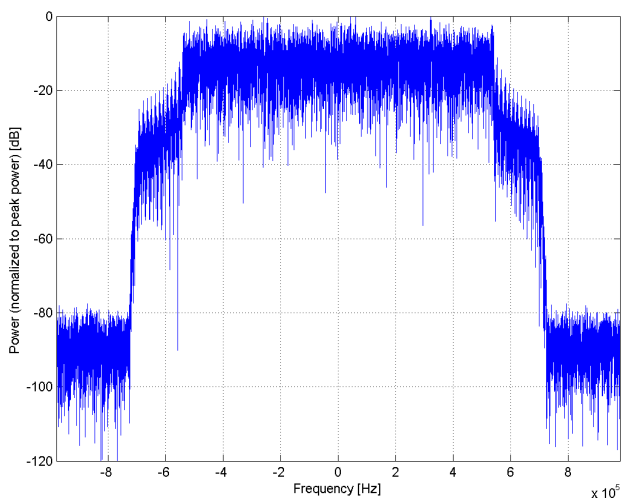
Bandwidth: 1.4 MHz
Integration Time: 10.0 ms

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

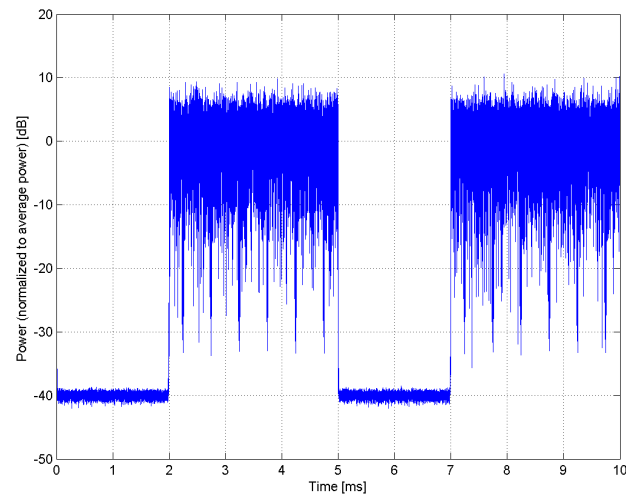
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



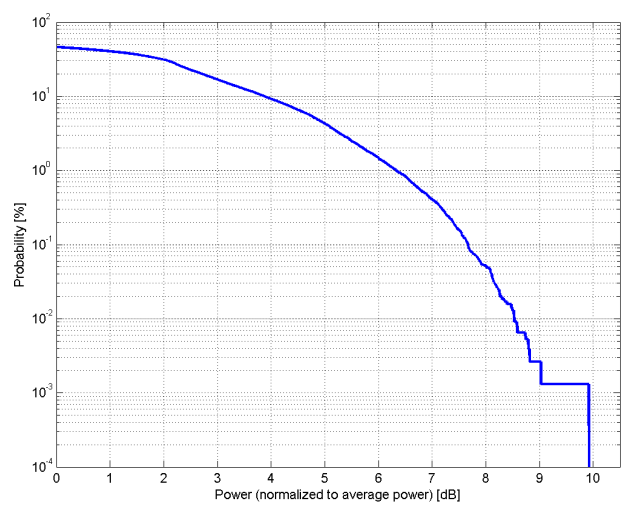
Time Domain

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

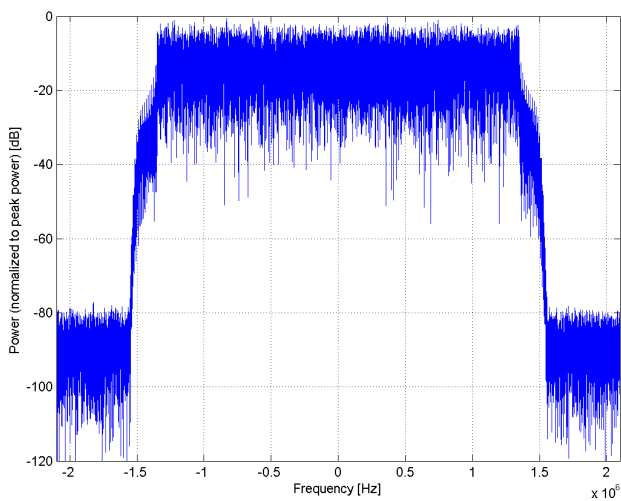
Name:	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10500-AAD
PAR: ¹	7.67 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 15 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	3.0 MHz
Integration Time:	10.0 ms

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

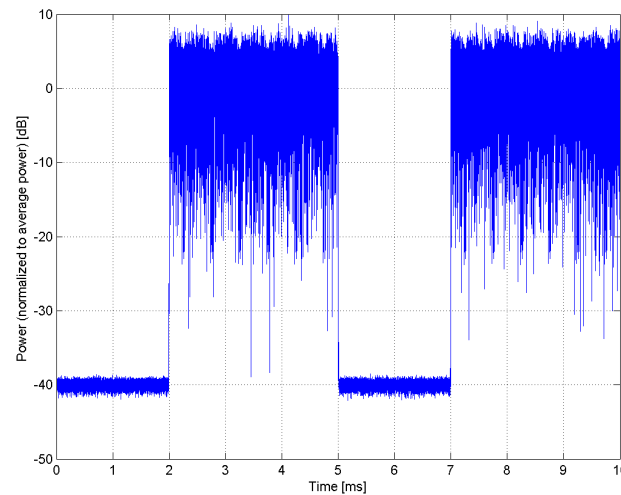
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10501-AAD

PAR: ¹ **8.44 dB**
MIF: ² **-3.43 dB**

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

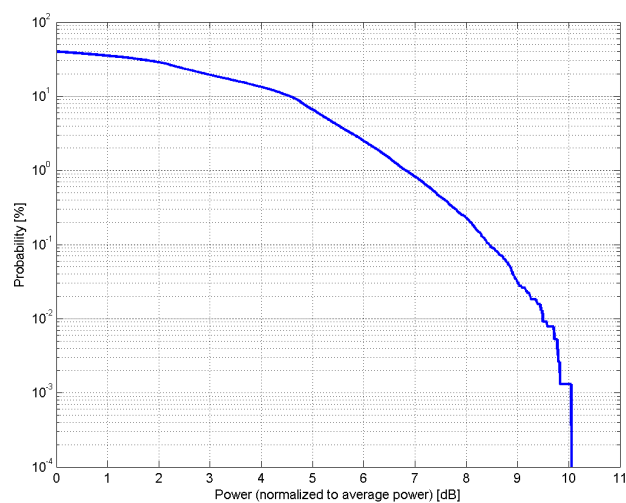
Category: Random amplitude modulation
Modulation: 16-QAM

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

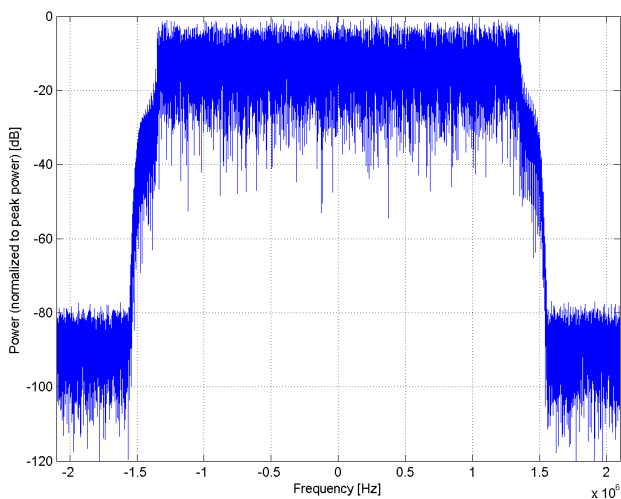
Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

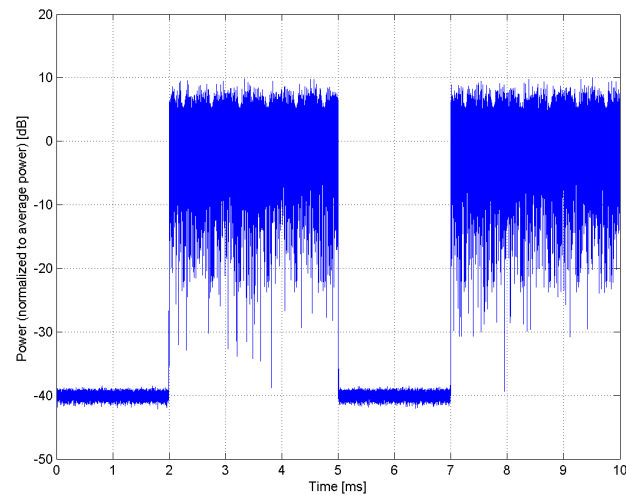
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10502-AAD

PAR: ¹ **8.52 dB**
MIF: ² **-3.42 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

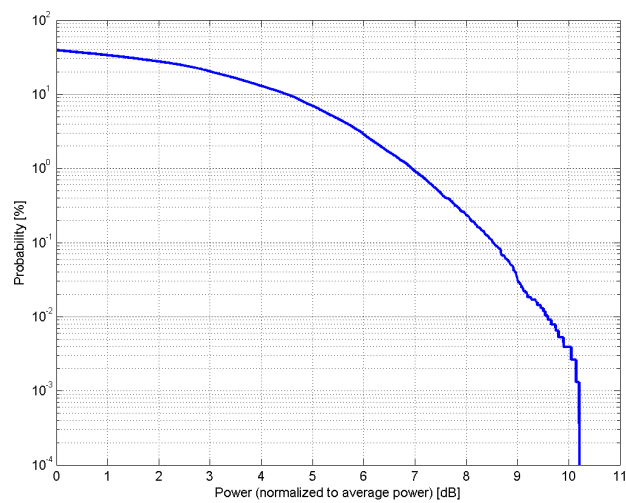
Frequency Band: Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 15
Start Number of RB: 0
Data Type: PN9fix

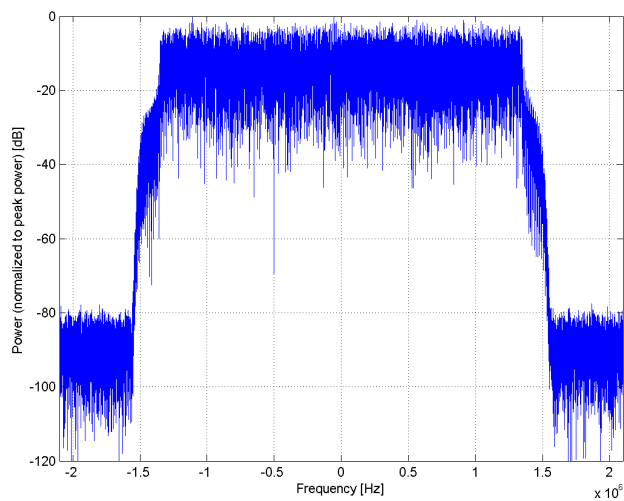
Bandwidth: 3.0 MHz
Integration Time: 10.0 ms

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

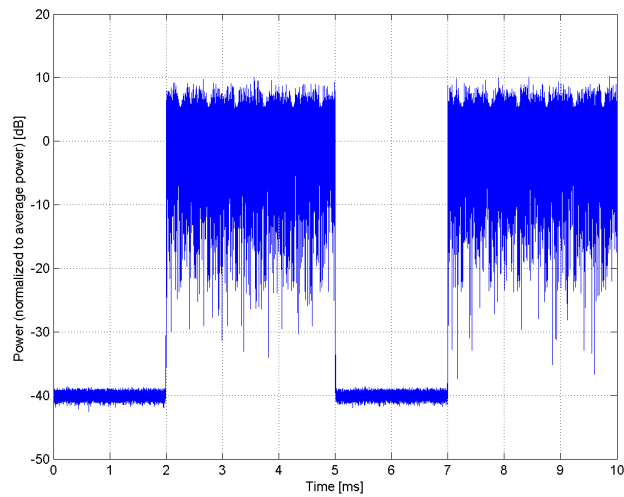
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



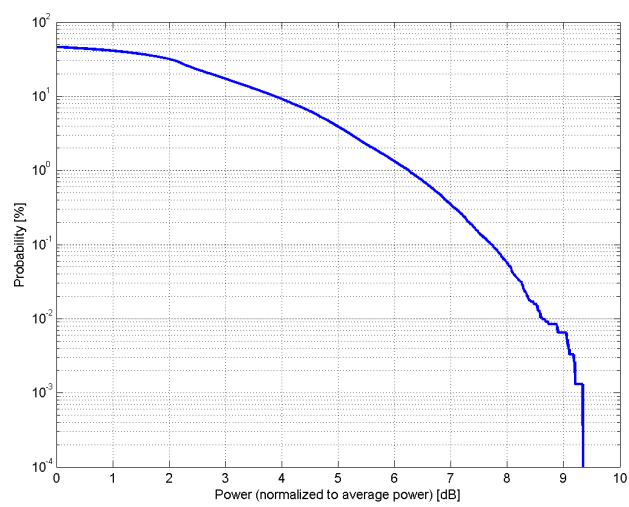
Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

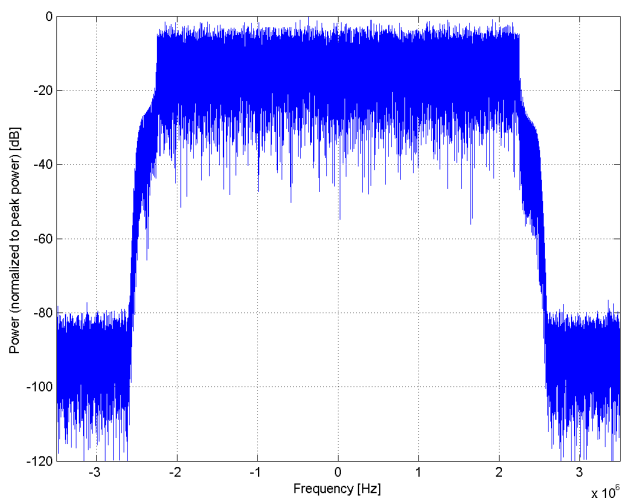
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)
Group:	LTE-TDD
UID:	10503-AAG
PAR: ¹	7.72 dB
MIF: ²	-3.40 dB
Standard Reference:	3GPP / ETSI TS 136.101 V8.4.0 3GPP / ETSI TS 136.213 V8.4.0 FCC OET KDB 941225 D05 SAR for LTE Devices v01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band 33 (1900.0 - 1920.0 MHz) Band 34 (2010.0 - 2025.0 MHz) Band 35 (1850.0 - 1910.0 MHz) Band 36 (1930.0 - 1990.0 MHz) Band 37 (1910.0 - 1930.0 MHz) Band 38 (2570.0 - 2620.0 MHz) Band 39 (1880.0 - 1920.0 MHz) Band 40 (2300.0 - 2400.0 MHz) Band 41 (2496.0 - 2690.0 MHz) Band 42 (3400.0 - 3600.0 MHz) Band 43 (3600.0 - 3800.0 MHz) Band 44 (703.0 - 803.0 MHz) Band 45 (1447.0 - 1467.0 MHz) Band 48 (3550.0 - 3700.0 MHz) Band 50 (1432.0 - 1517.0 MHz) Band 51 (1427.0 - 1432.0 MHz) Band 52 (3300.0 - 3400.0 MHz) Band 53 (2483.5 - 2495.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Modulation Scheme: SC-FDMA Uplink-downlink configuration: 0 Special Subframe configuration: 7 Number of Frames: 1 Settings for UL Subframe: 2,3,4,7,8,9 Number of PUSCHs: 1 Modulation Scheme: QPSK Allocated RB: 25 Start Number of RB: 0 Data Type: PN9fix
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

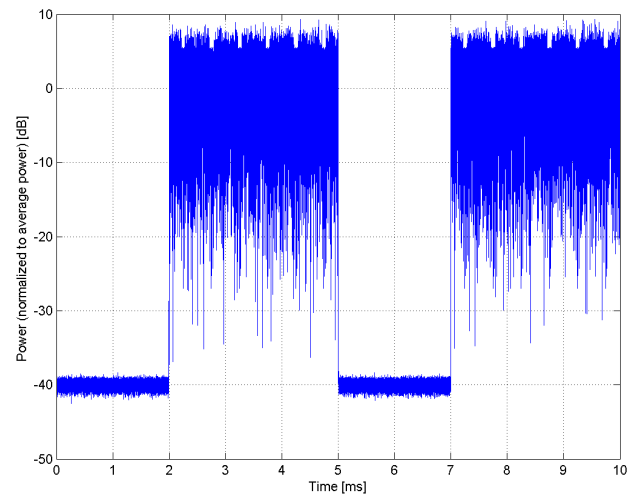
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10504-AAG

PAR: ¹ **8.31 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

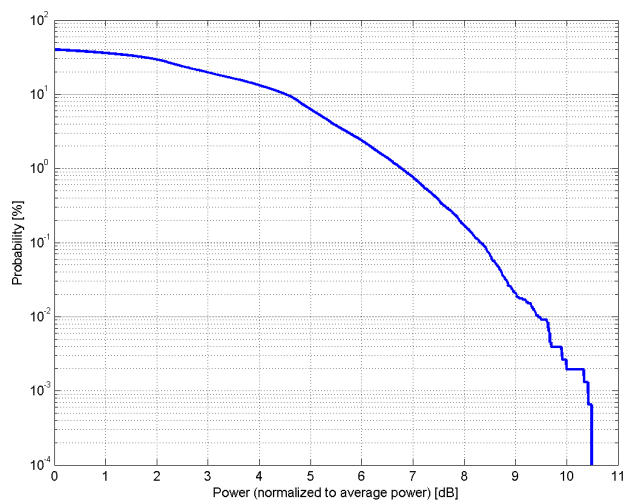
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix

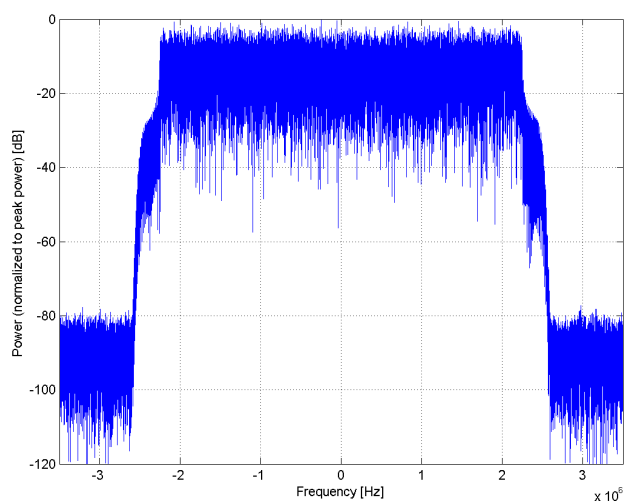
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

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

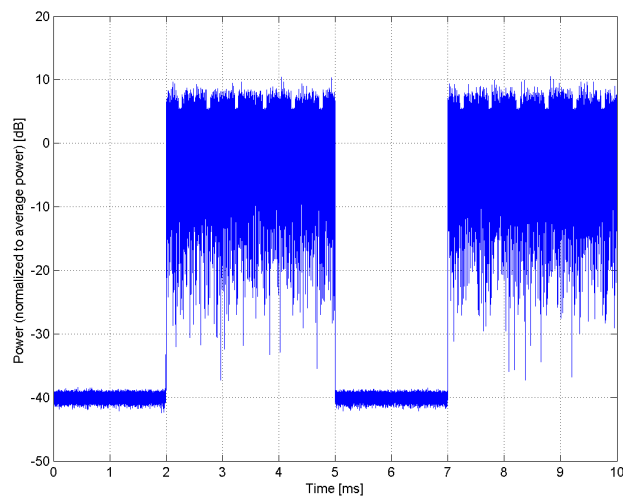
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10505-AAG

PAR: ¹ **8.54 dB**
MIF: ² **-3.41 dB**

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

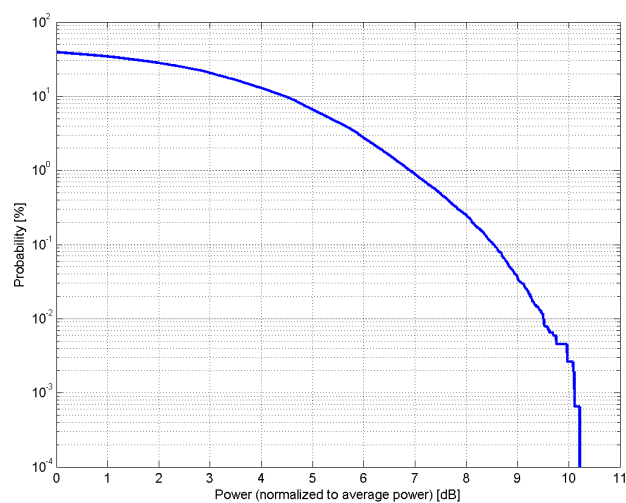
Category: Random amplitude modulation
Modulation: 64-QAM

Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0 - 3800.0 MHz)
Band 44 (703.0 - 803.0 MHz)
Band 45 (1447.0 - 1467.0 MHz)
Band 48 (3550.0 - 3700.0 MHz)
Band 50 (1432.0 - 1517.0 MHz)
Band 51 (1427.0 - 1432.0 MHz)
Band 52 (3300.0 - 3400.0 MHz)
Band 53 (2483.5 - 2495.0 MHz)
Validation band (0.0 - 6000.0 MHz)

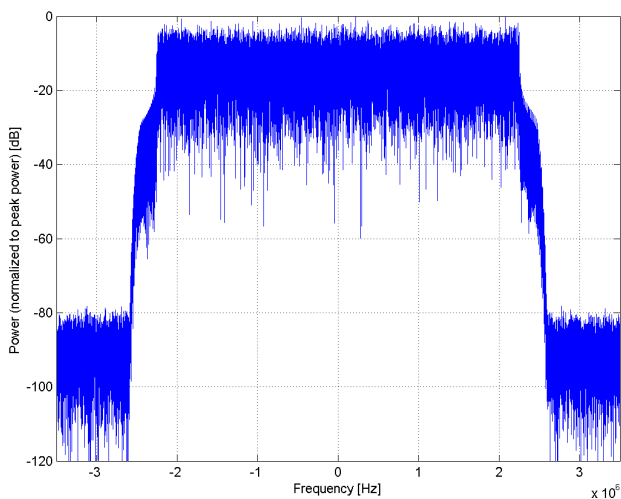
Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 25
Start Number of RB: 0
Data Type: PN9fix
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

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

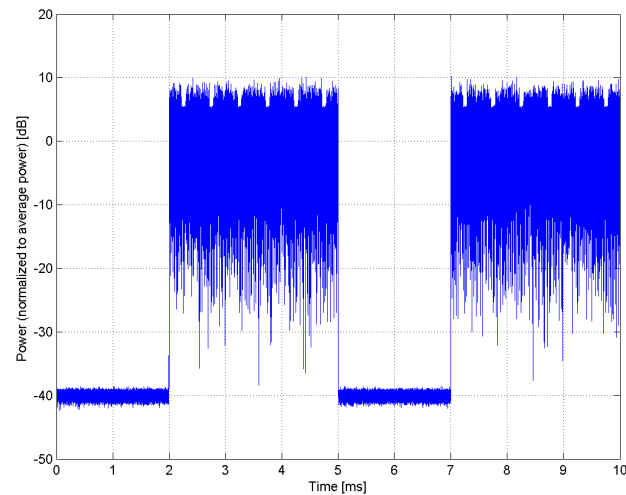
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10506-AAG

PAR: ¹ **7.74 dB**
MIF: ² **-3.40 dB**

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

Category: Random amplitude modulation
Modulation: QPSK

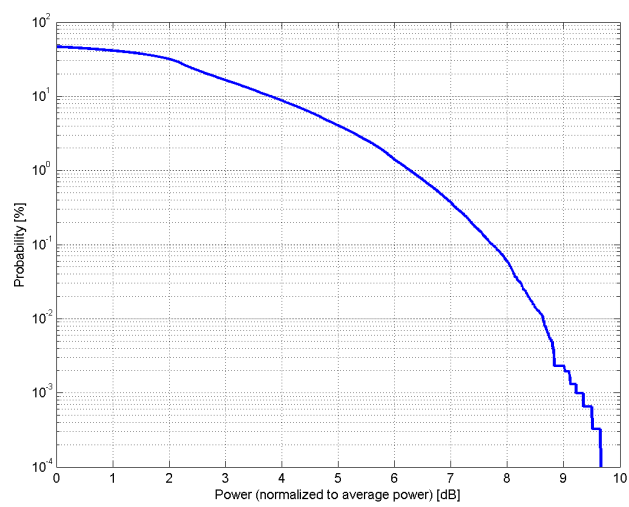
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

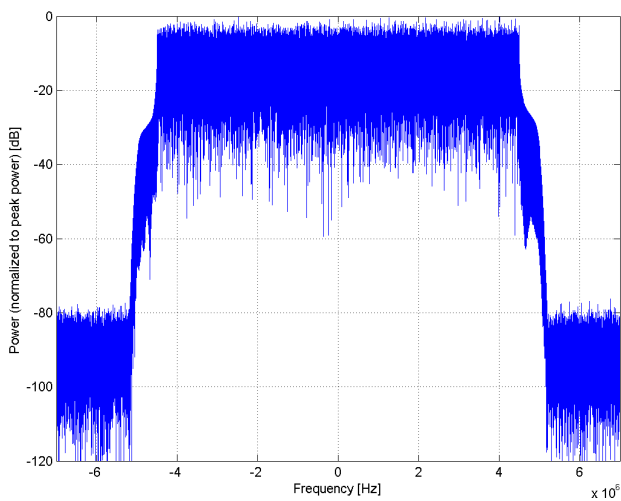
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

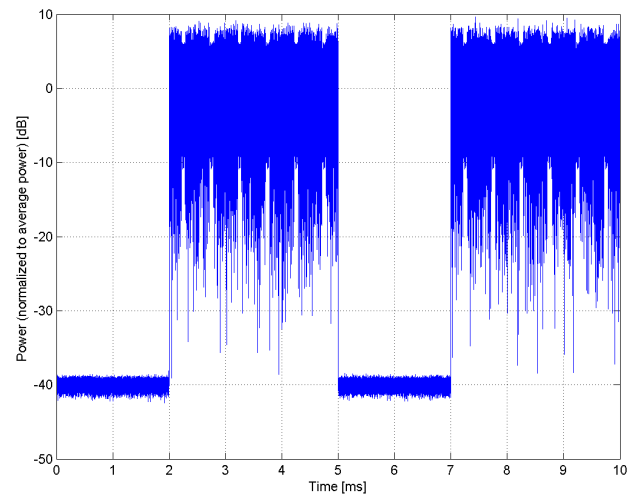
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10507-AAG

PAR: ¹ **8.36 dB**
MIF: ² **-3.41 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

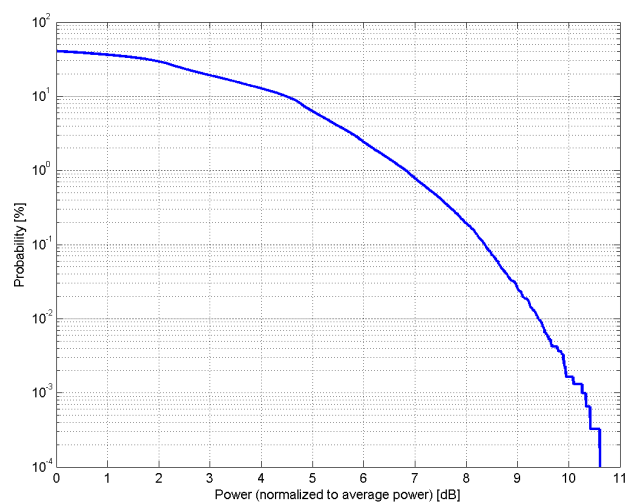
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

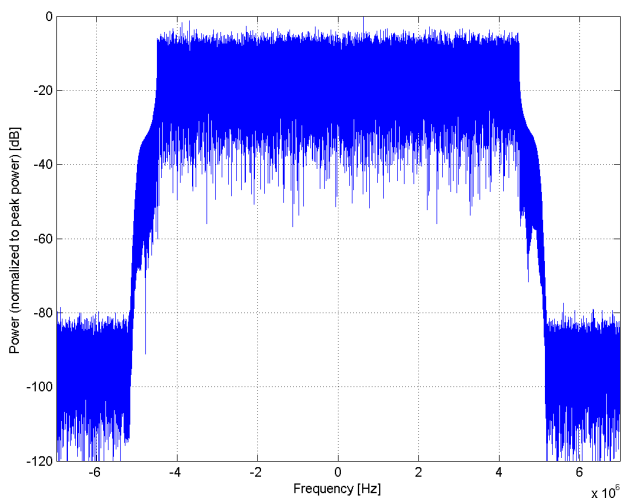
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

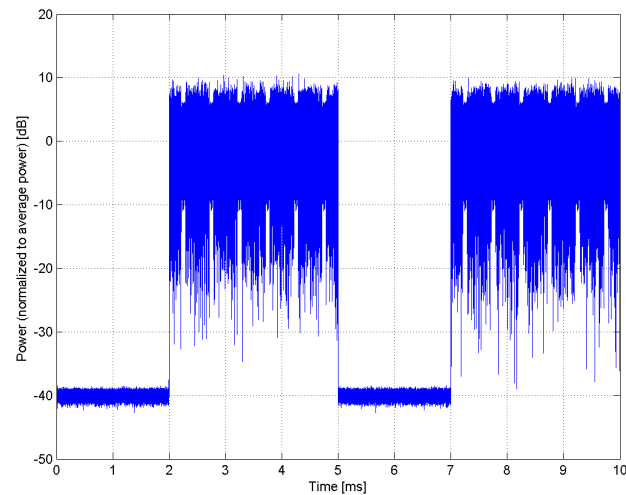
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10508-AAG

PAR: ¹ **8.55 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

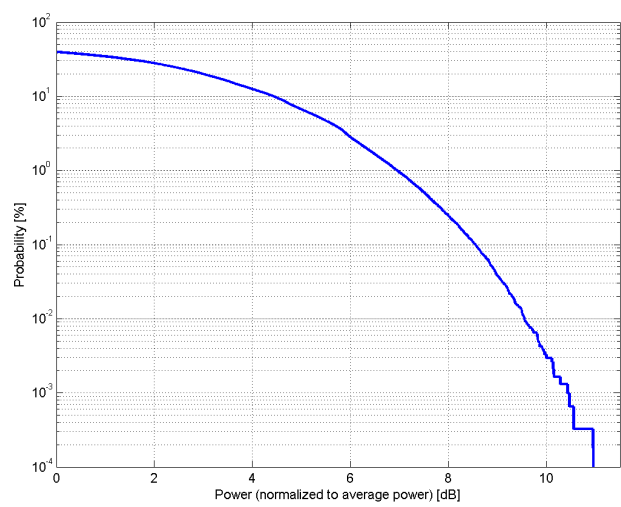
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 50
Start Number of RB: 0
Data Type: PN9fix

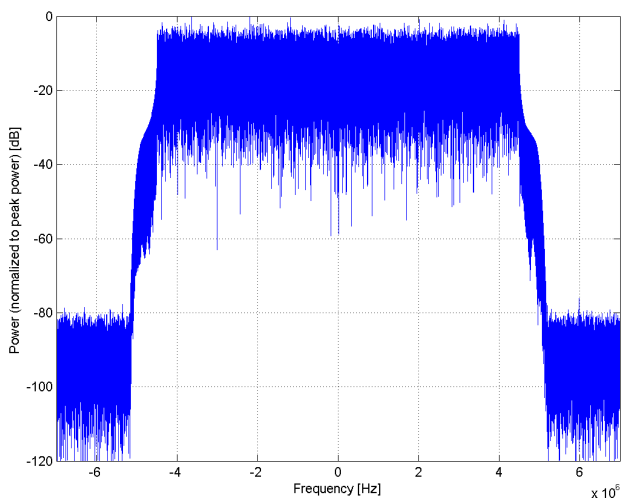
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

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

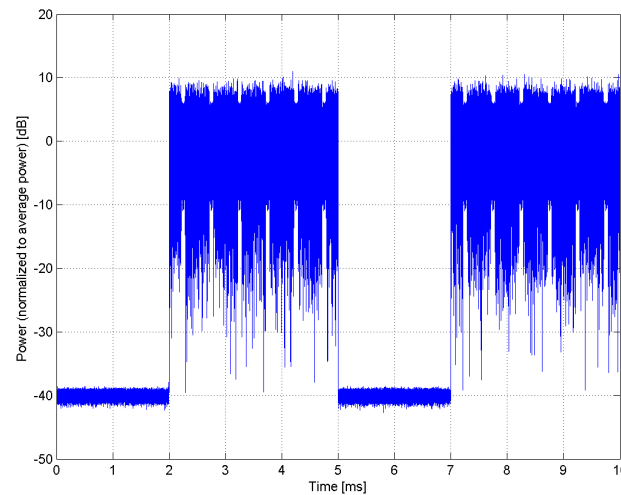
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10509-AAF

PAR: ¹ **7.99 dB**
MIF: ² **-3.42 dB**

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

Category: Random amplitude modulation
Modulation: QPSK

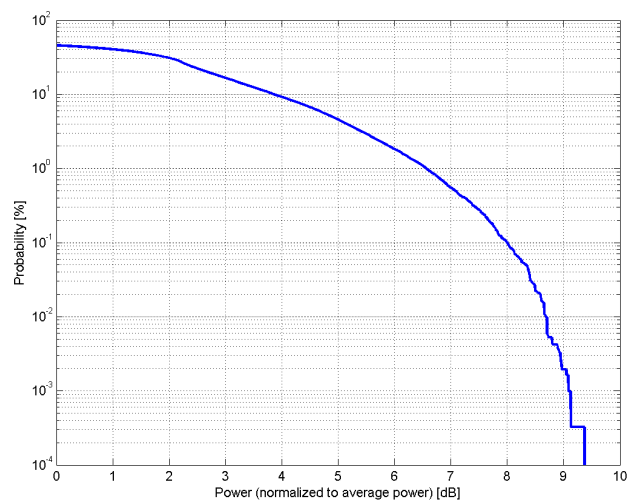
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

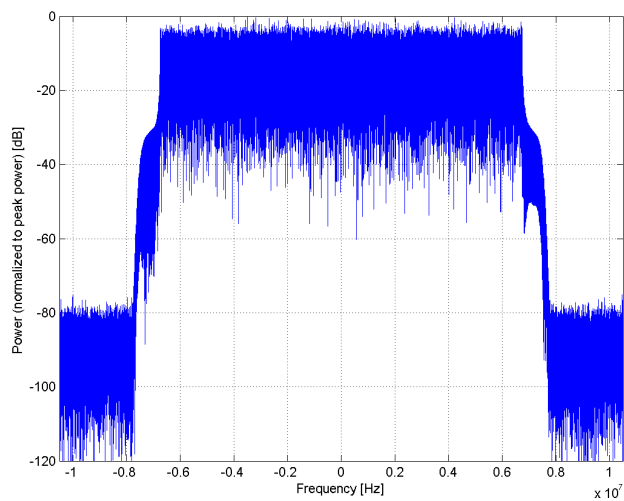
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

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

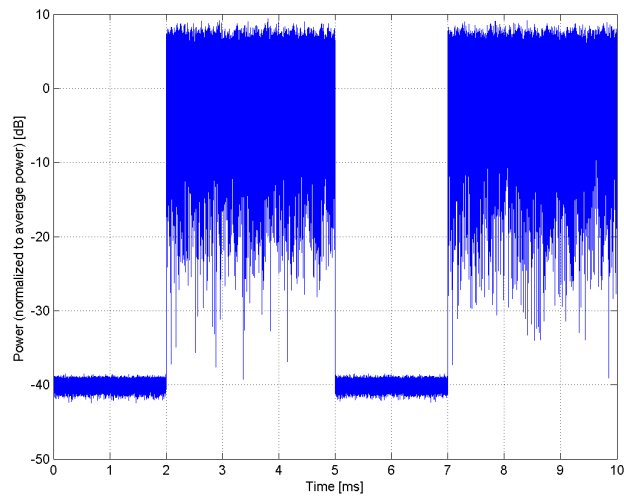
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10510-AAF

PAR: ¹ **8.49 dB**
MIF: ² **-3.43 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

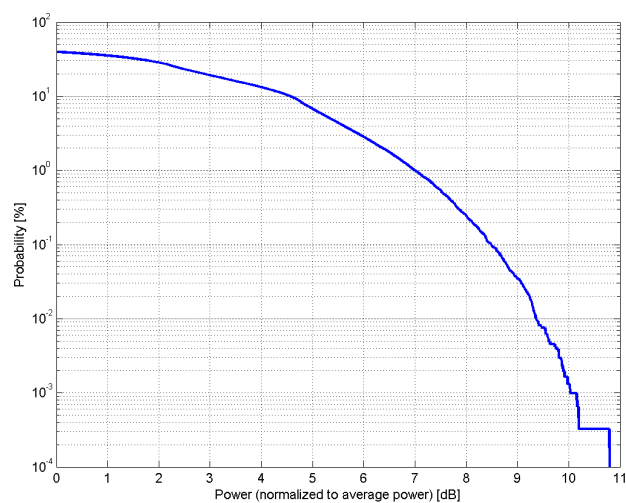
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

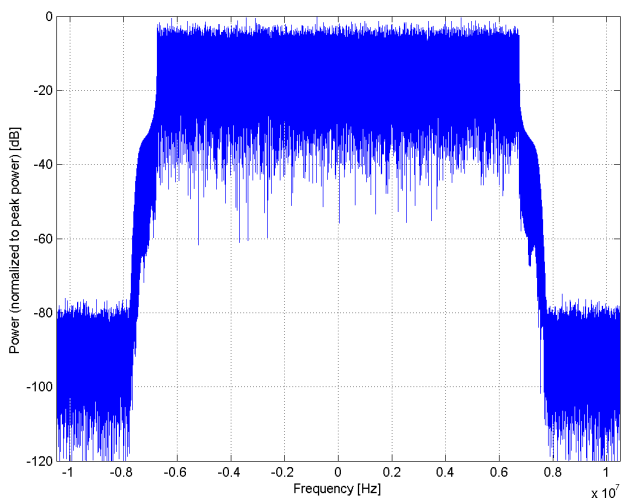
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

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

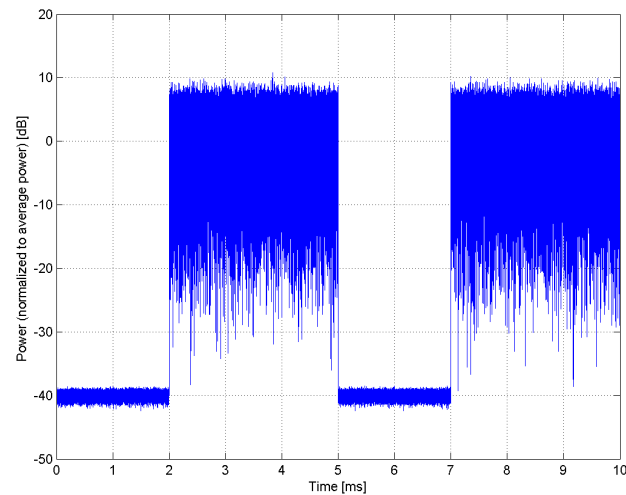
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10511-AAF

PAR: ¹ **8.51 dB**
MIF: ² **-3.45 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

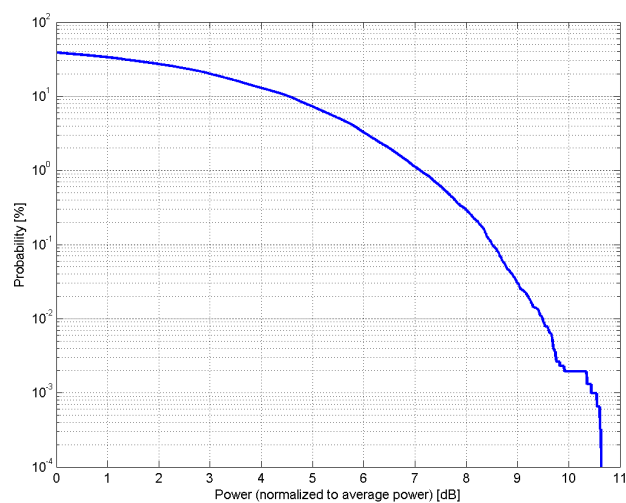
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 34 (2010.0 - 2025.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 75
Start Number of RB: 0
Data Type: PN9fix

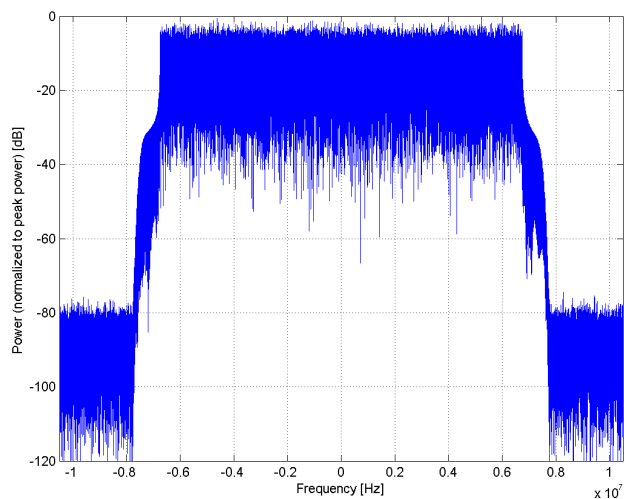
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

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

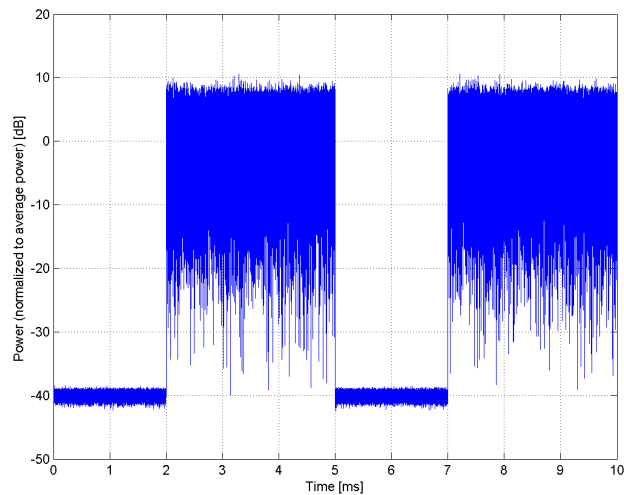
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10512-AAG

PAR: ¹ **7.74 dB**
MIF: ² **-3.40 dB**

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

Category: Random amplitude modulation
Modulation: QPSK

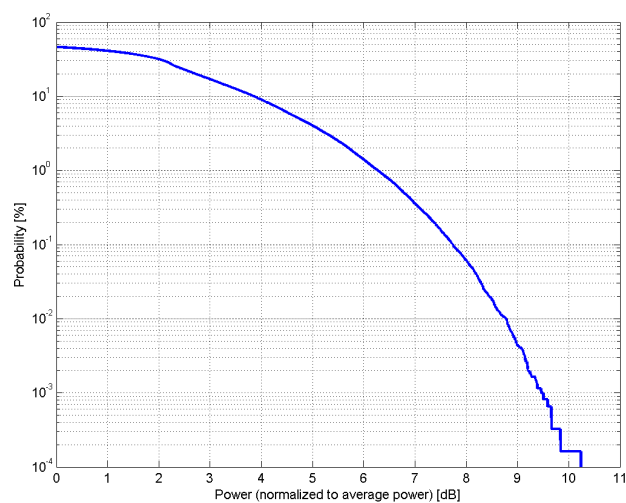
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

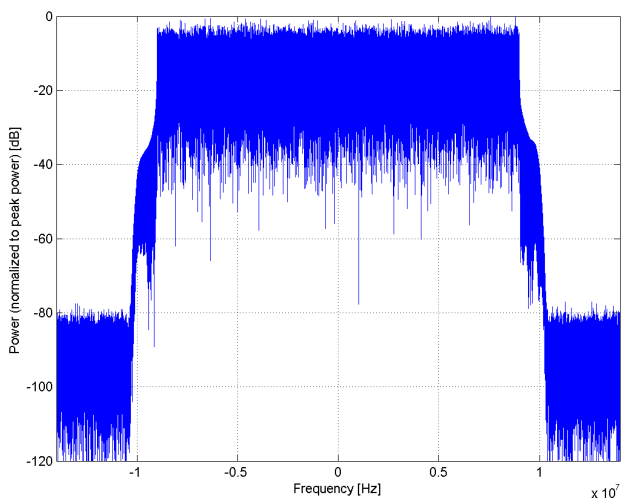
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

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

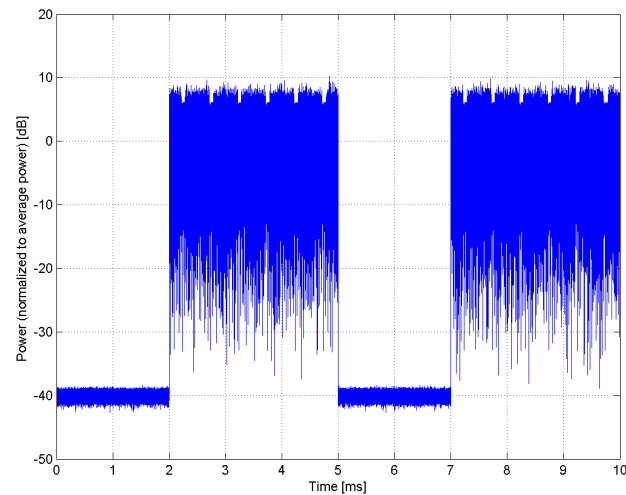
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10513-AAG

PAR: ¹ **8.42 dB**
MIF: ² **-3.42 dB**

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

Category: Random amplitude modulation
Modulation: 16-QAM

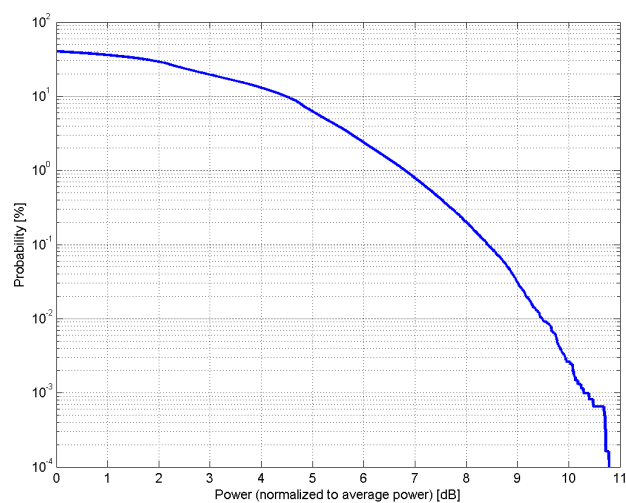
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

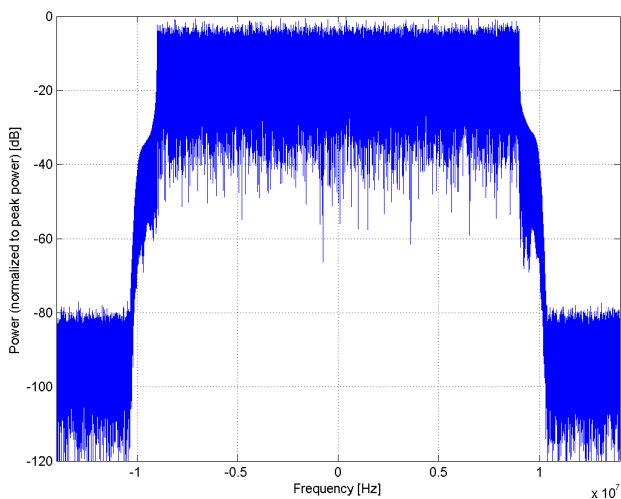
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

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

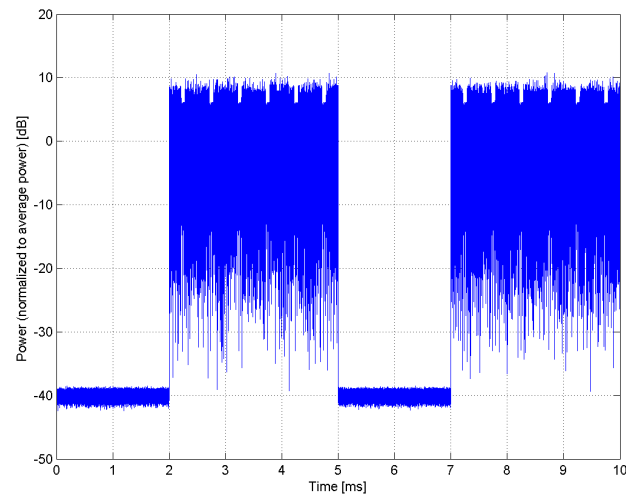
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)**

Group: LTE-TDD
UID: 10514-AAG

PAR: ¹ **8.45 dB**
MIF: ² **-3.42 dB**

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

Category: Random amplitude modulation
Modulation: 64-QAM

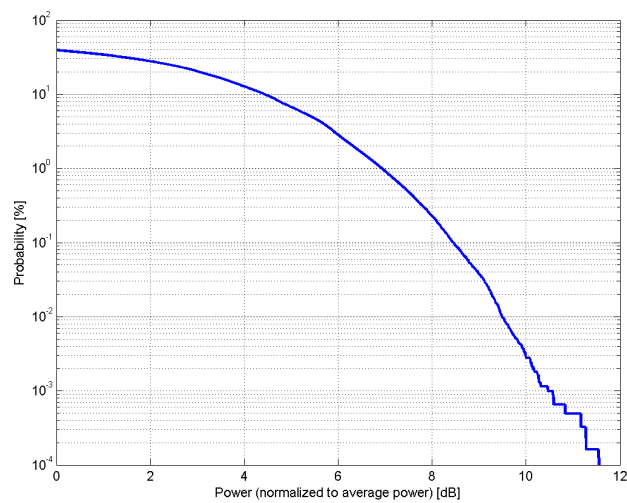
Frequency Band: Band 33 (1900.0 - 1920.0 MHz)
Band 35 (1850.0 - 1910.0 MHz)
Band 36 (1930.0 - 1990.0 MHz)
Band 37 (1910.0 - 1930.0 MHz)
Band 38 (2570.0 - 2620.0 MHz)
Band 39 (1880.0 - 1920.0 MHz)
Band 40 (2300.0 - 2400.0 MHz)
Band 41 (2496.0 - 2690.0 MHz)
Band 42 (3400.0 - 3600.0 MHz)
Band 43 (3600.0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

Detailed Specification: Modulation Scheme: SC-FDMA
Uplink-downlink configuration: 0
Special Subframe configuration: 7
Number of Frames: 1
Settings for UL Subframe: 2,3,4,7,8,9
Number of PUSCHs: 1
Modulation Scheme: QPSK
Allocated RB: 100
Start Number of RB: 0
Data Type: PN9fix

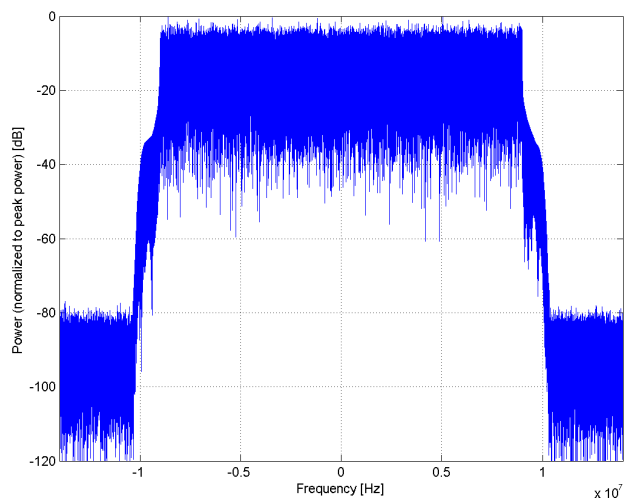
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

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

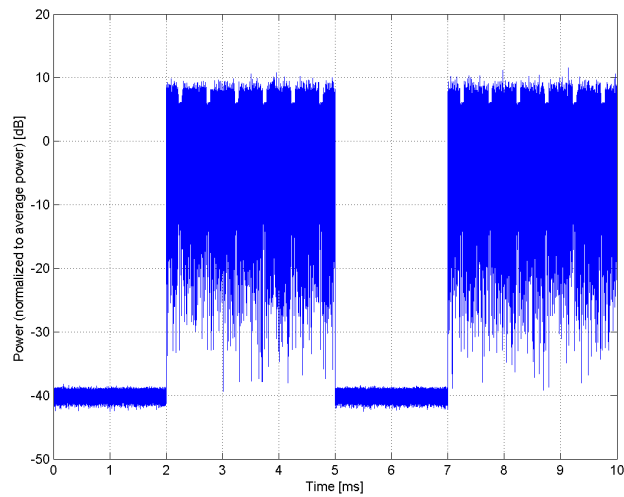
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

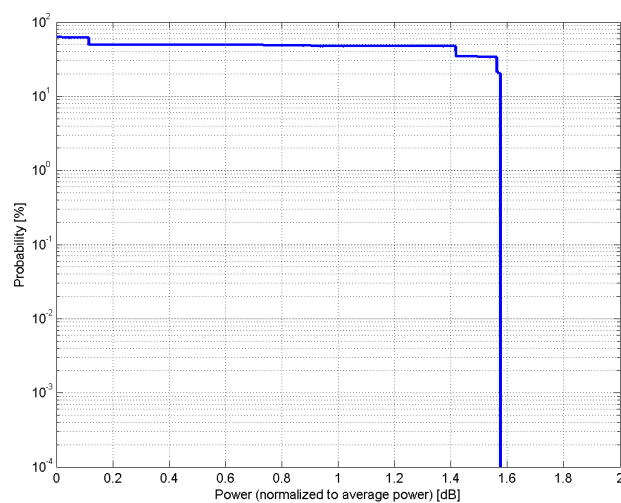
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10515-AAA

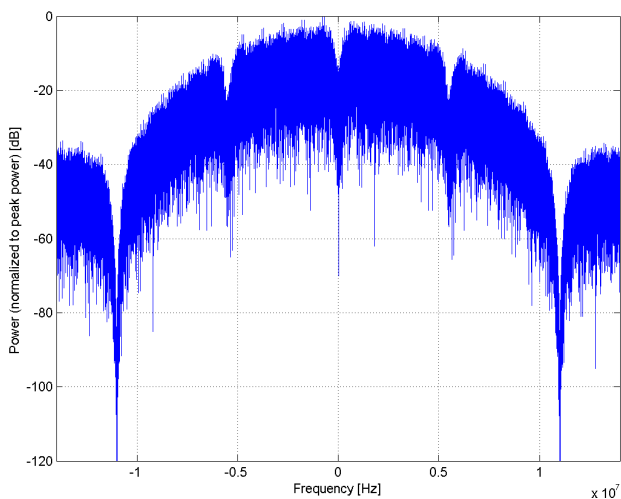
PAR: ¹ **1.58 dB**
MIF: ² **-12.56 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 2Mbps
Burst on time: 4288us
Bandwidth: 20.0 MHz
Integration Time: 4.3 ms

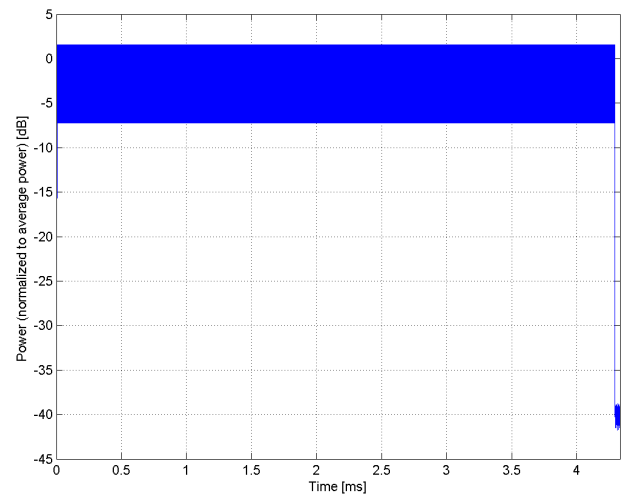
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

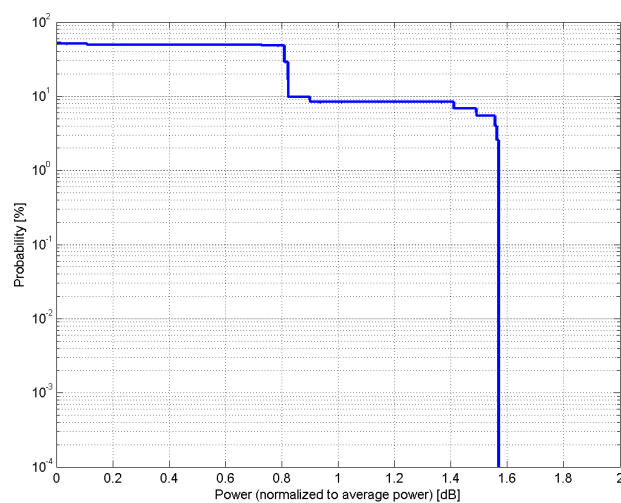
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10516-AAA

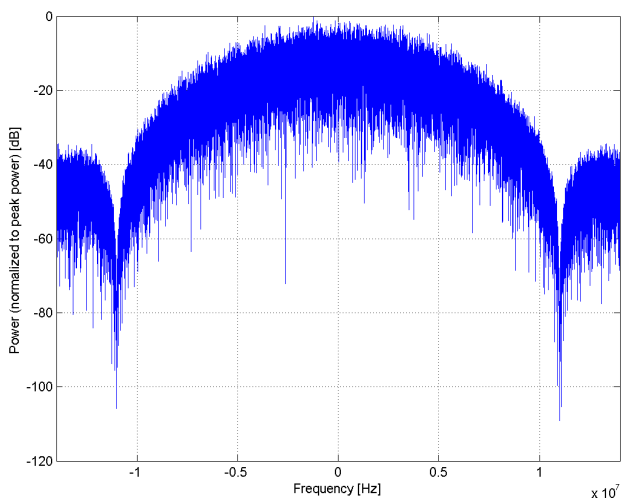
PAR: ¹ **1.57 dB**
MIF: ² **-12.52 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 5.5Mbps
Burst on time: 1681us
Bandwidth: 20.0 MHz
Integration Time: 1.7 ms

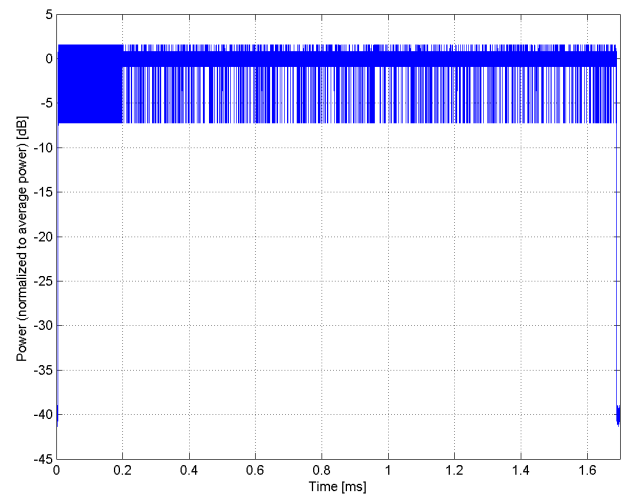
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

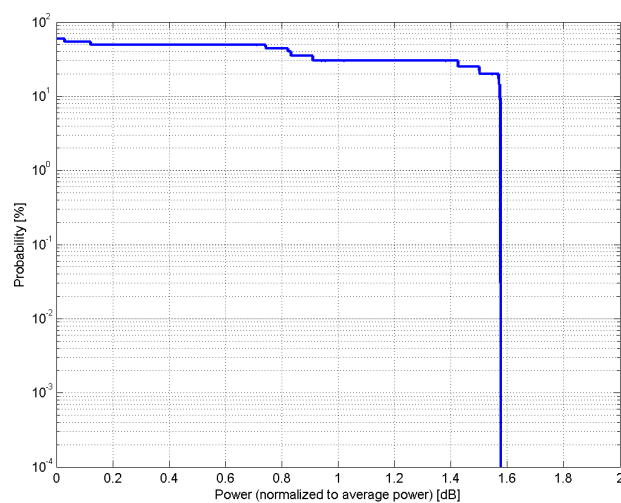
Name: **IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)**

Group: WLAN
UID: 10517-AAA

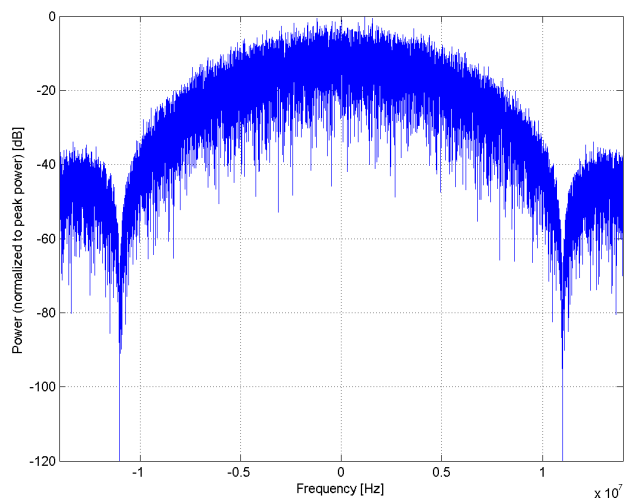
PAR: ¹ **1.58 dB**
MIF: ² **-13.24 dB**

Standard Reference: IEEE 802.11-2012
FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category: Random amplitude modulation
Modulation: DQPSK
Frequency Band: WLAN 2.4GHz (2412.0-2484.0 MHz, 20230)
Detailed Specification: Duty cycle: 99 %
PSDU length: 1024 bytes
Preamble type: long
Data Rate: 11Mbps
Burst on time: 936us
Bandwidth: 20.0 MHz
Integration Time: 0.9 ms

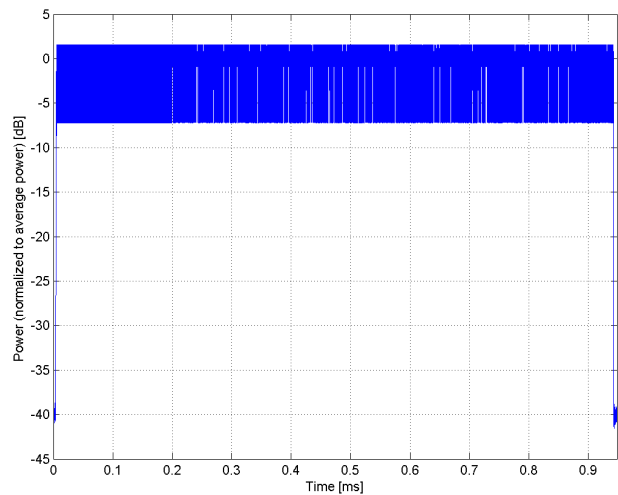
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



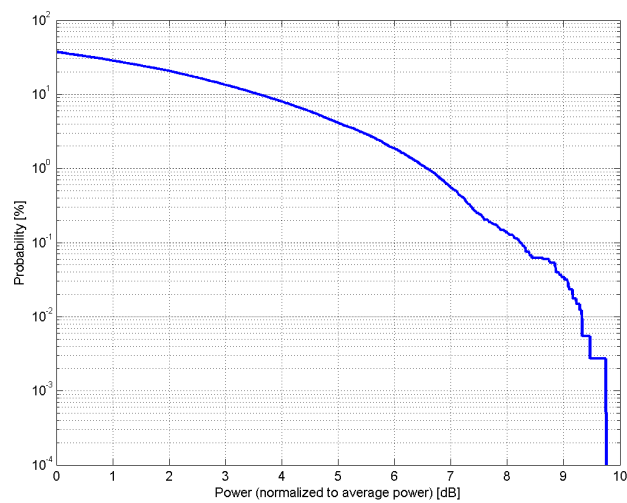
Time Domain

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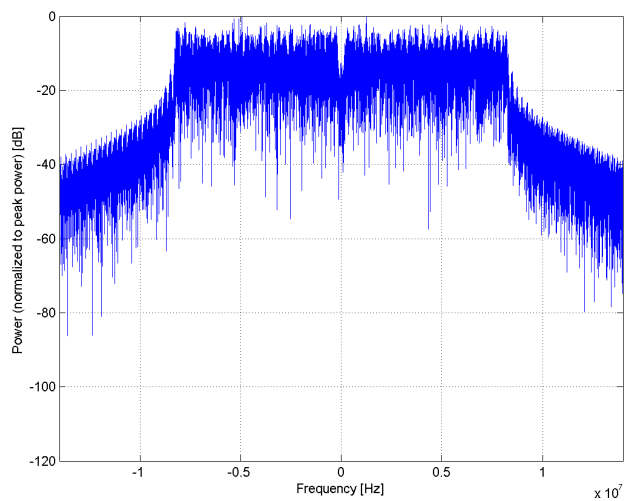
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10518-AAD
PAR: ¹	8.23 dB
MIF: ²	-15.39 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 9Mbps Burst on time: 912us
Bandwidth:	20.0 MHz
Integration Time:	0.9 ms

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

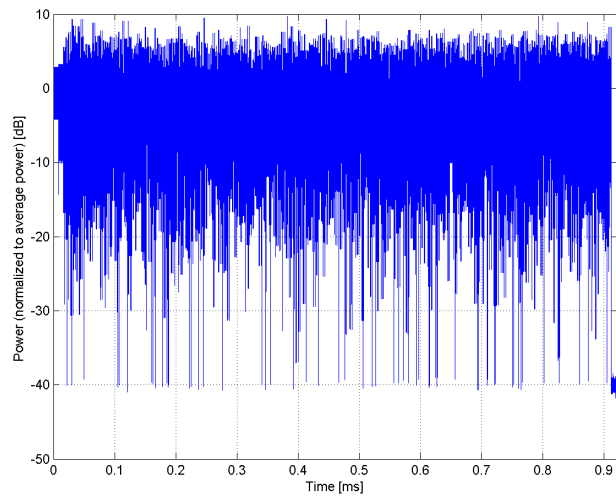
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



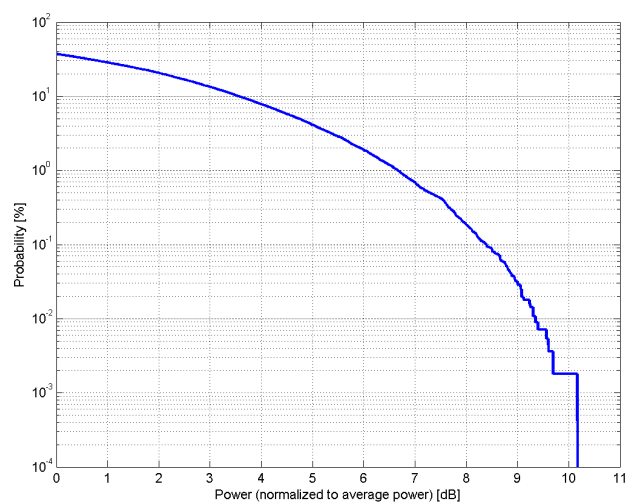
Time Domain

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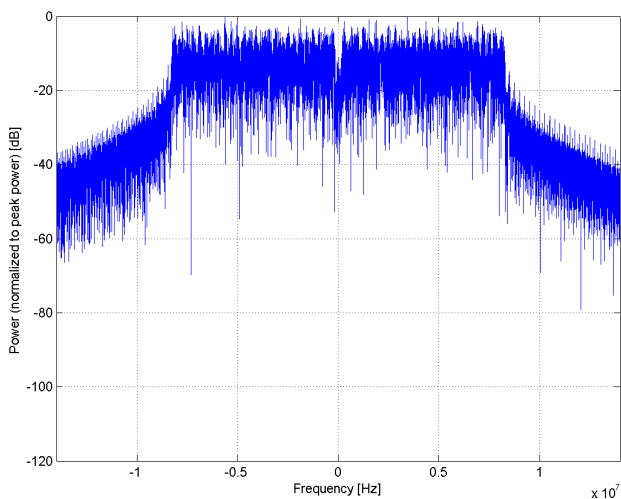
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10519-AAD
PAR: ¹	8.39 dB
MIF: ²	-16.70 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 12Mbps Burst on time: 692us
Bandwidth:	20.0 MHz
Integration Time:	0.7 ms

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

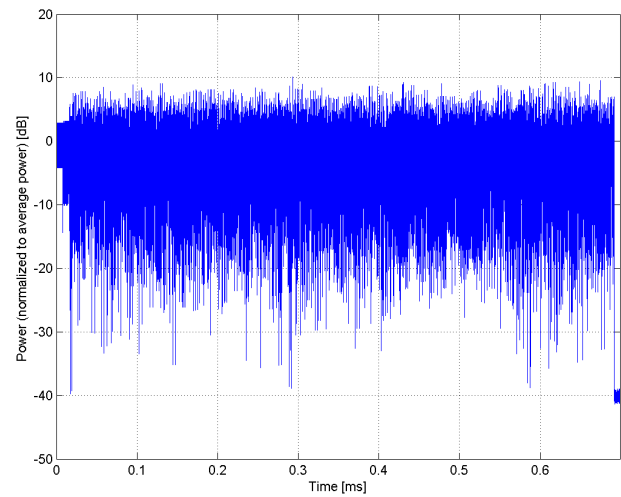
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



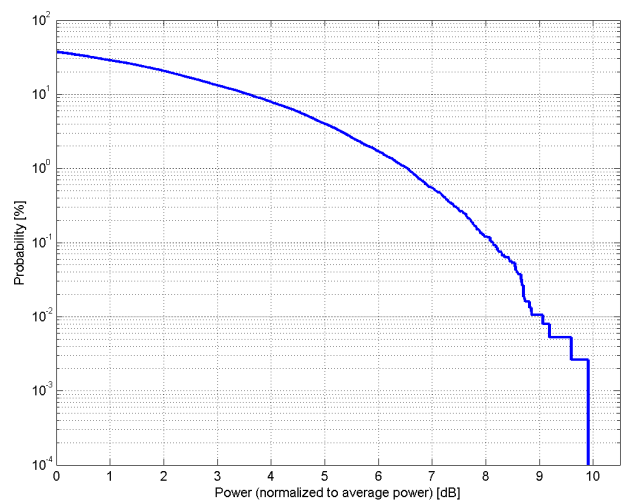
Time Domain

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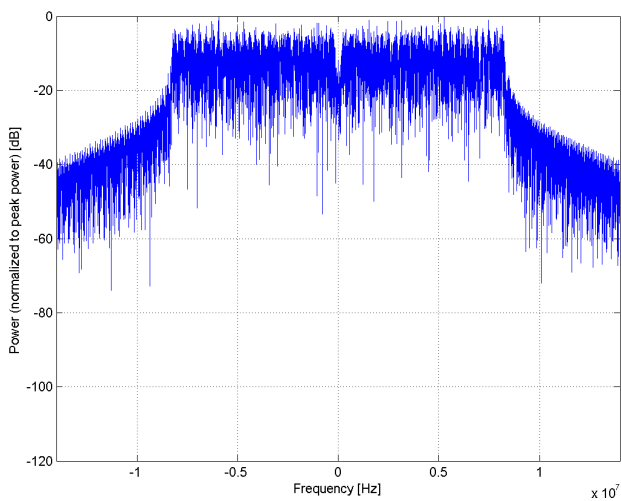
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10520-AAD
PAR: ¹	8.12 dB
MIF: ²	-18.76 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 18Mbps Burst on time: 468us
Bandwidth:	20.0 MHz
Integration Time:	0.5 ms

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

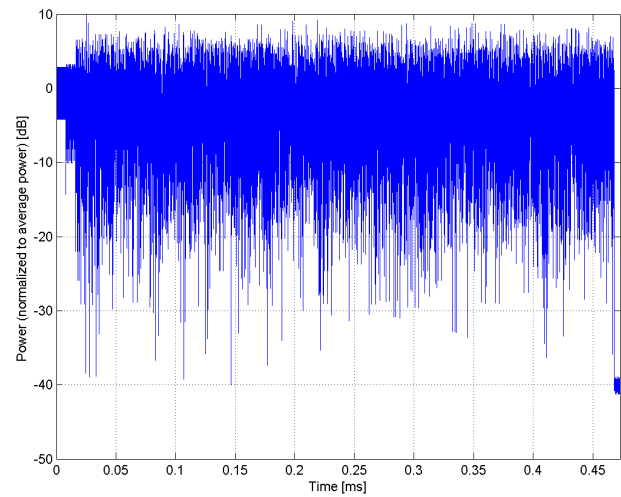
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

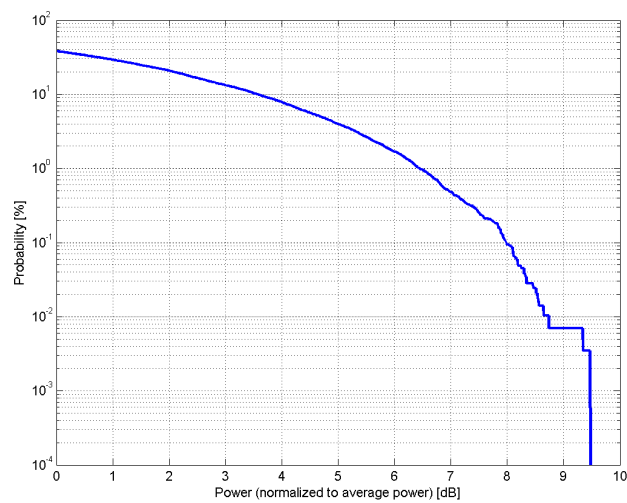


Time Domain

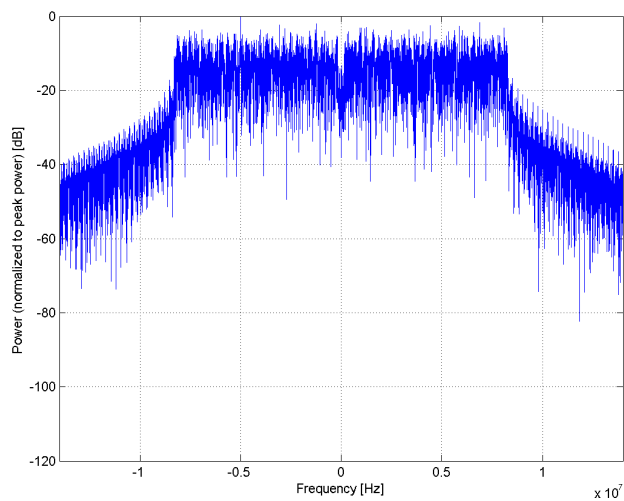
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Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10521-AAD
PAR: ¹	7.97 dB
MIF: ²	-23.13 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 24Mbps Burst on time: 356us
Bandwidth:	20.0 MHz
Integration Time:	0.4 ms

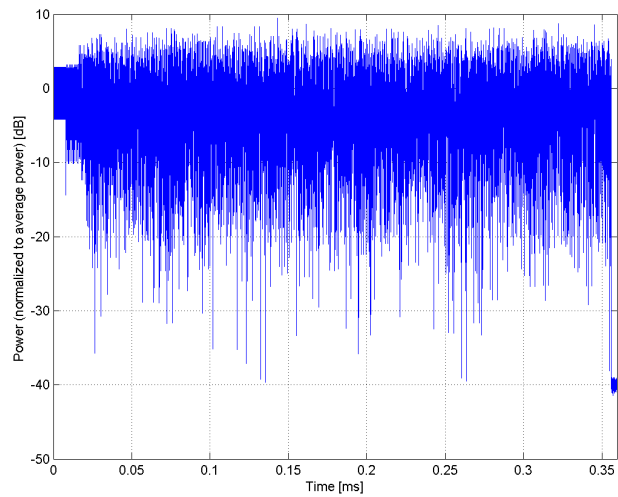
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



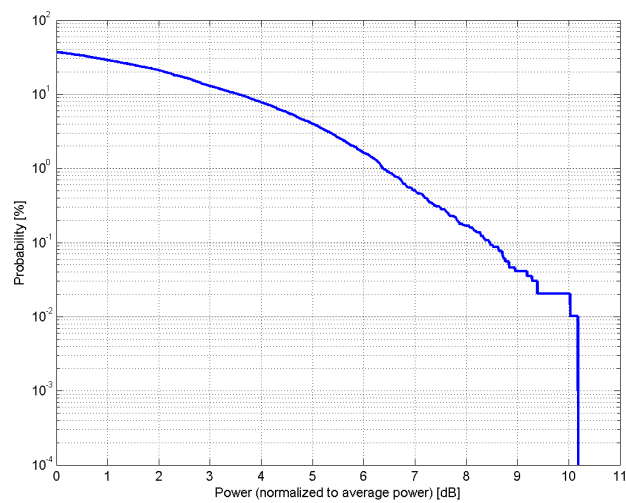
Time Domain

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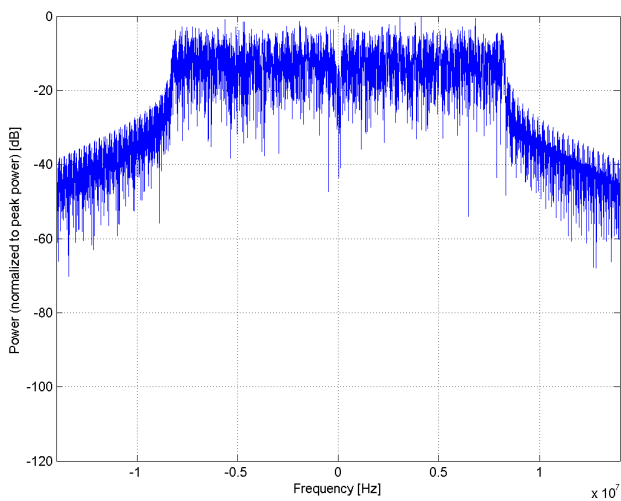
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10522-AAD
PAR: ¹	8.45 dB
MIF: ²	-22.02 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 36Mbps Burst on time: 244us
Bandwidth:	20.0 MHz
Integration Time:	0.2 ms

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

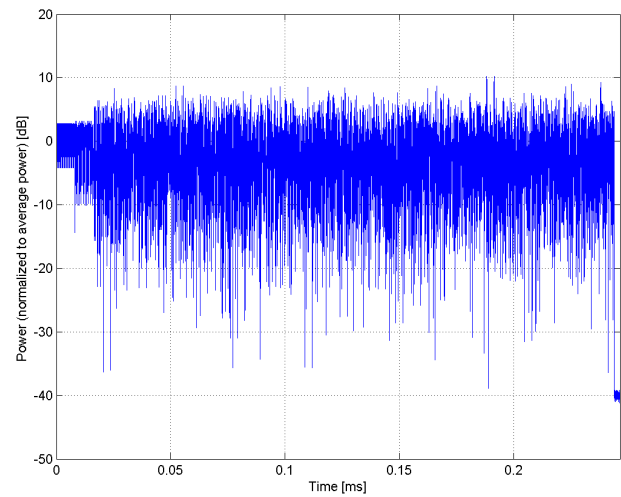
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



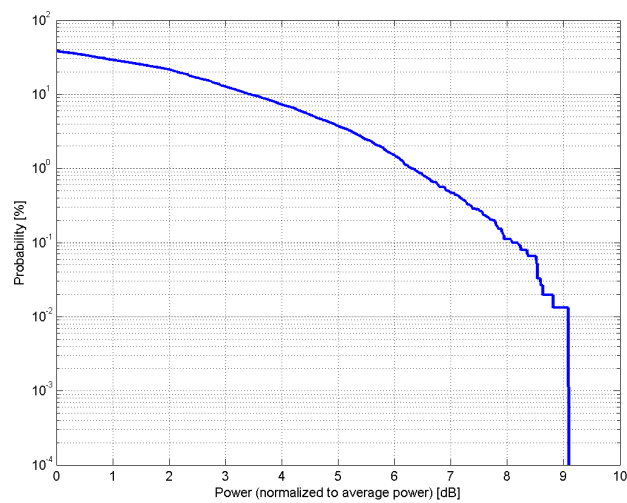
Time Domain

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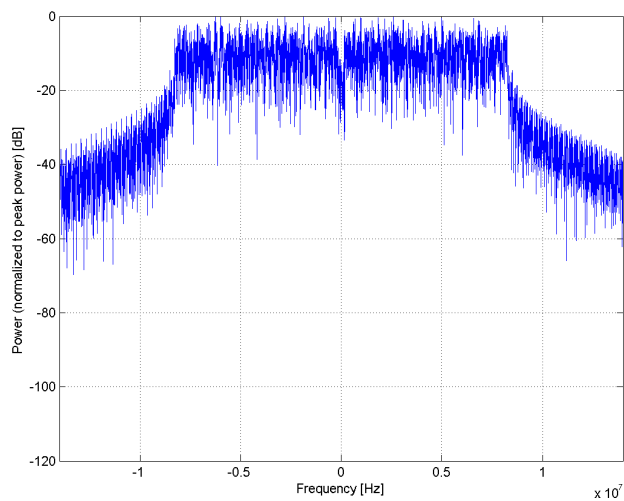
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10523-AAD
PAR: ¹	8.08 dB
MIF: ²	-24.22 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 48Mbps Burst on time: 188us
Bandwidth:	20.0 MHz
Integration Time:	0.2 ms

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

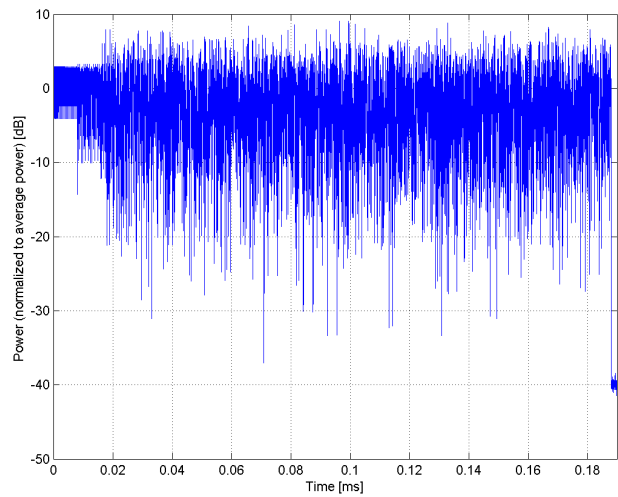
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



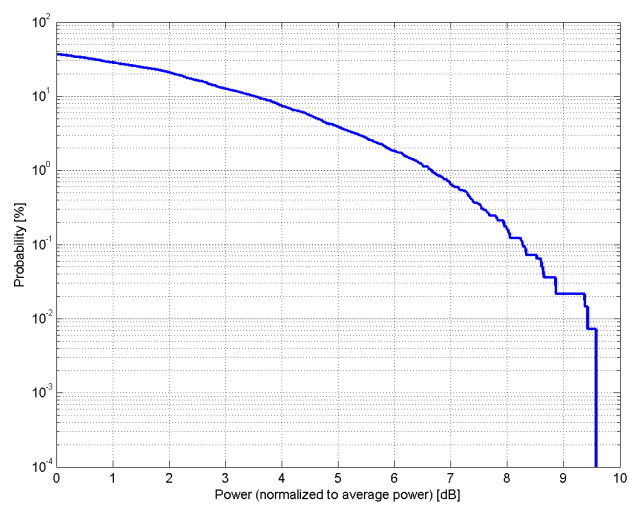
Time Domain

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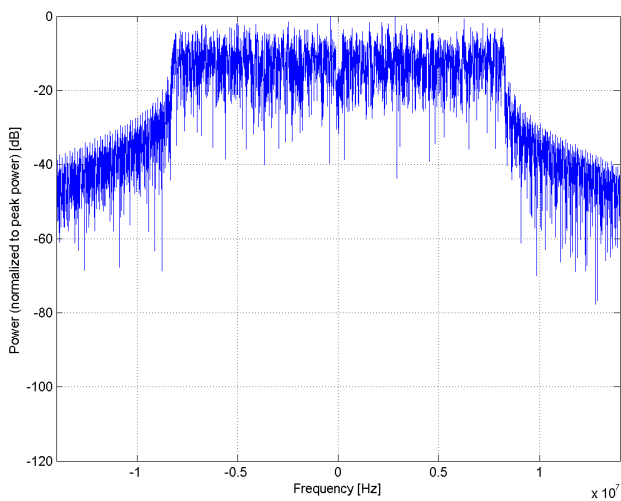
Name:	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)
Group:	WLAN
UID:	10524-AAD
PAR: ¹	8.27 dB
MIF: ²	-29.35 dB
Standard Reference:	IEEE 802.11-2012 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Duty cycle: 99% PSDU length: 1000 bytes Data Rate: 54Mbps Burst on time: 172us
Bandwidth:	20.0 MHz
Integration Time:	0.2 ms

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

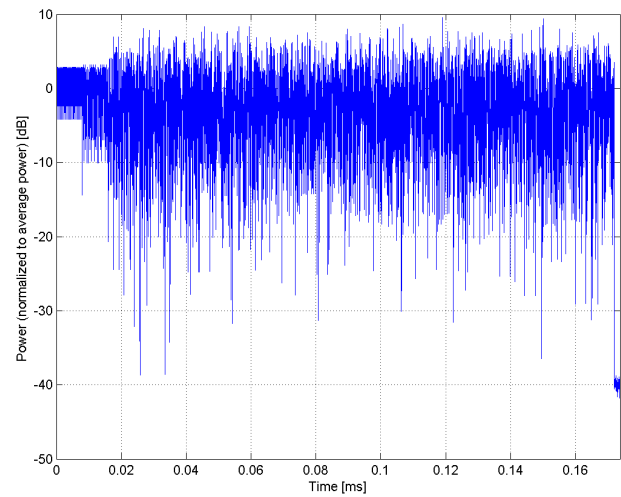
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



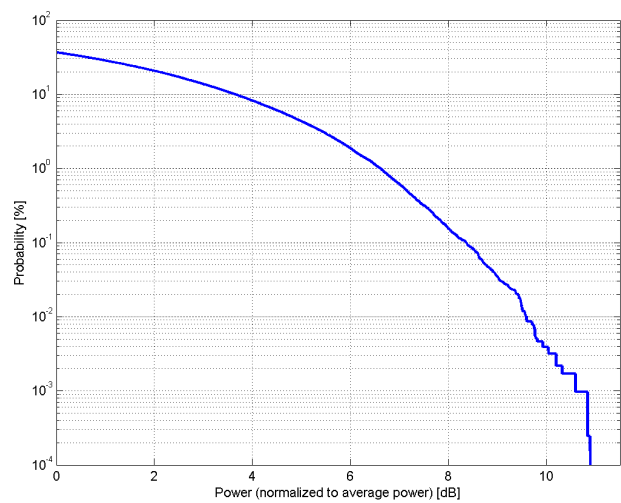
Time Domain

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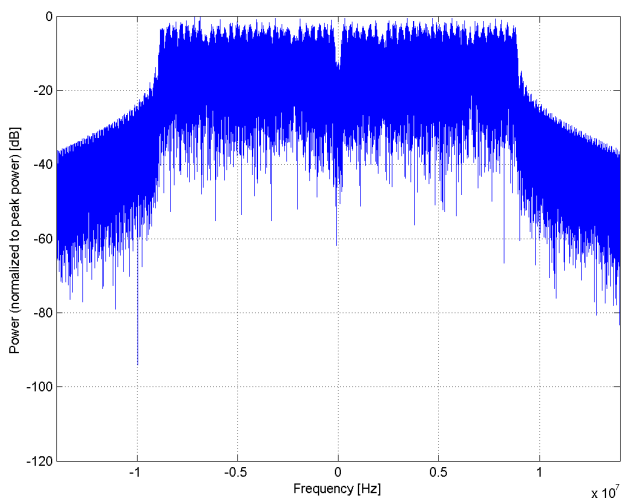
Name:	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)
Group:	WLAN
UID:	10525-AAD
PAR: ¹	8.36 dB
MIF: ²	-12.23 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 0 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	5.1 ms

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

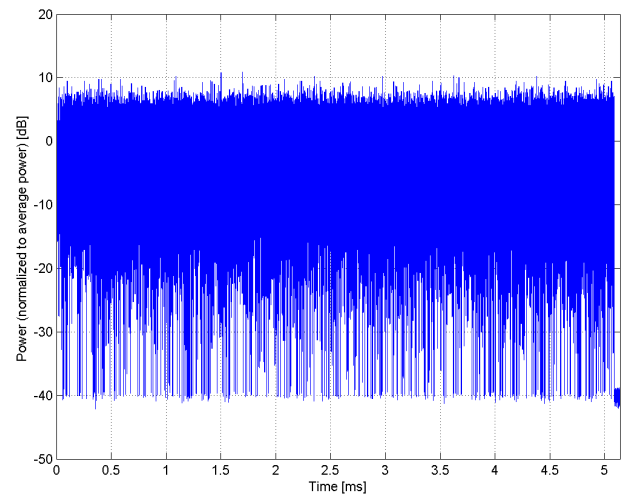
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



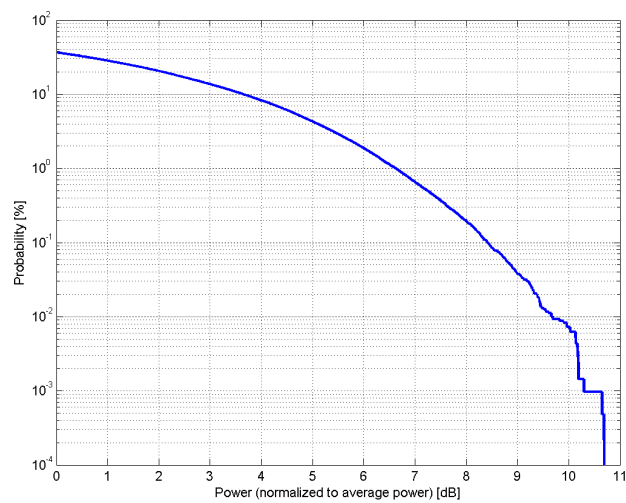
Time Domain

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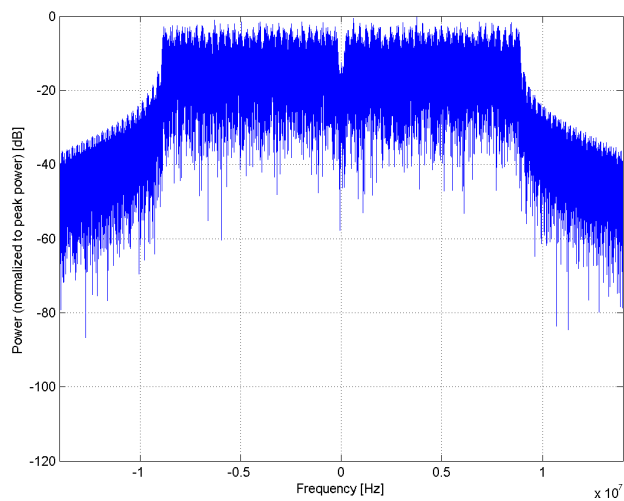
Name:	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)
Group:	WLAN
UID:	10526-AAD
PAR: ¹	8.42 dB
MIF: ²	-13.77 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 1 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	2.6 ms

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

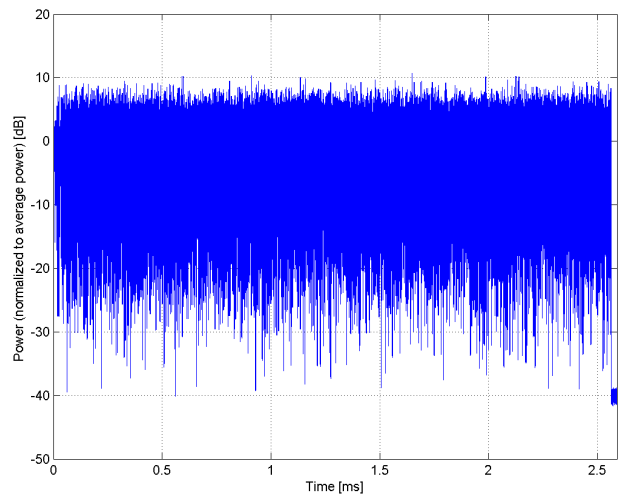
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



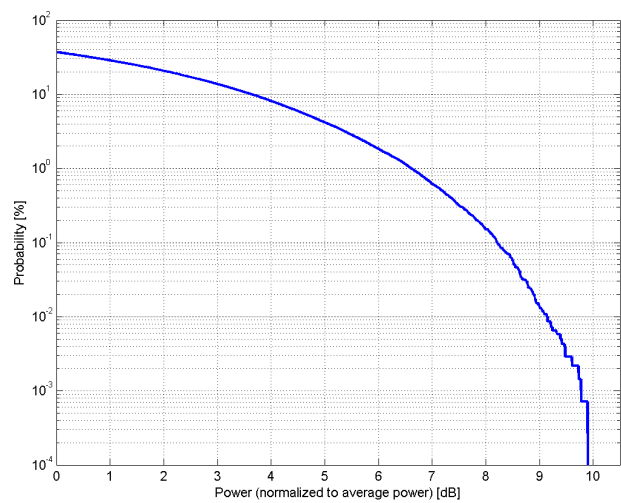
Time Domain

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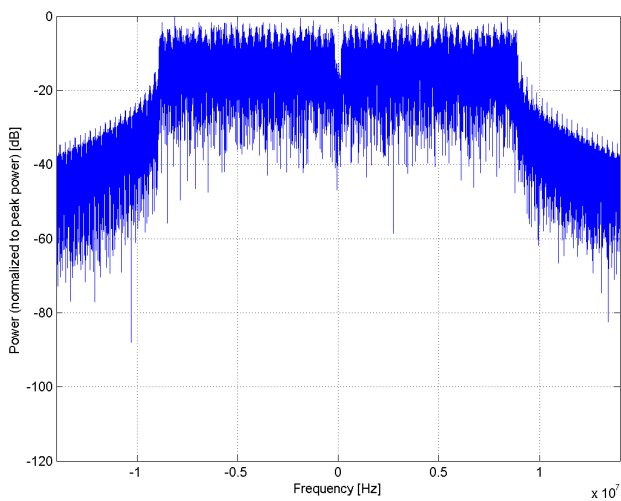
Name:	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)
Group:	WLAN
UID:	10527-AAD
PAR: ¹	8.21 dB
MIF: ²	-14.89 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 2 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	1.7 ms

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

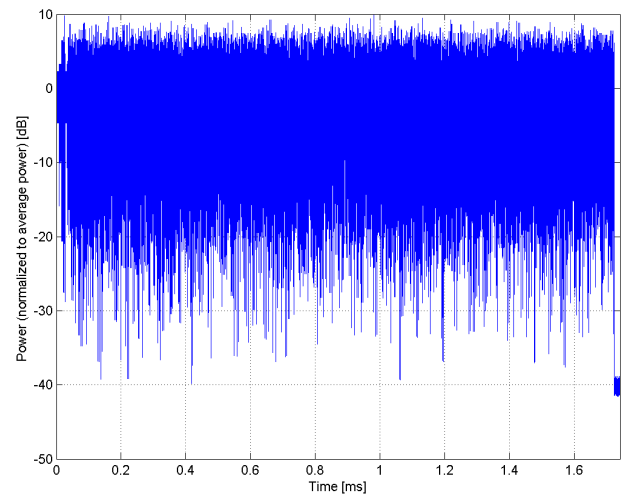
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



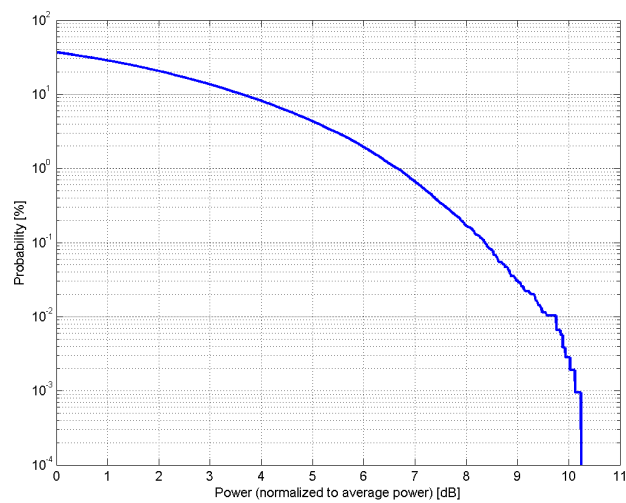
Time Domain

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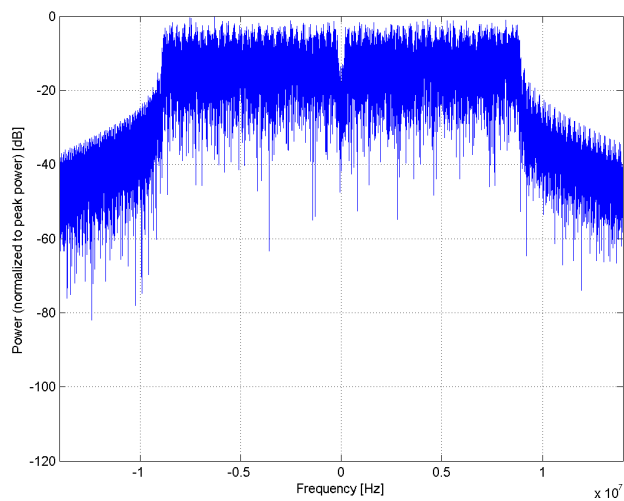
Name:	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)
Group:	WLAN
UID:	10528-AAD
PAR: ¹	8.36 dB
MIF: ²	-15.25 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 3 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	1.3 ms

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

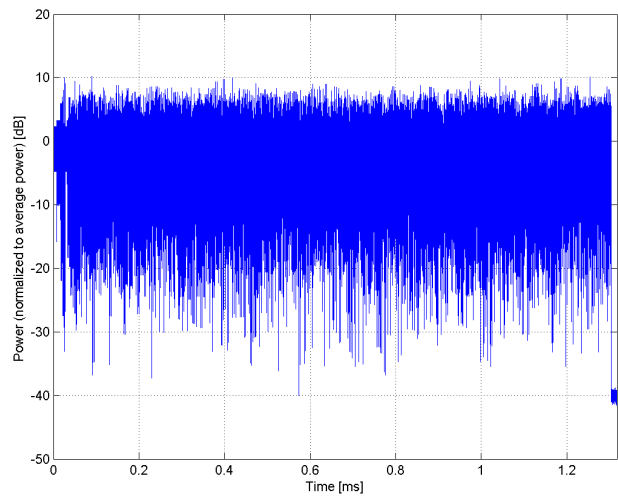
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



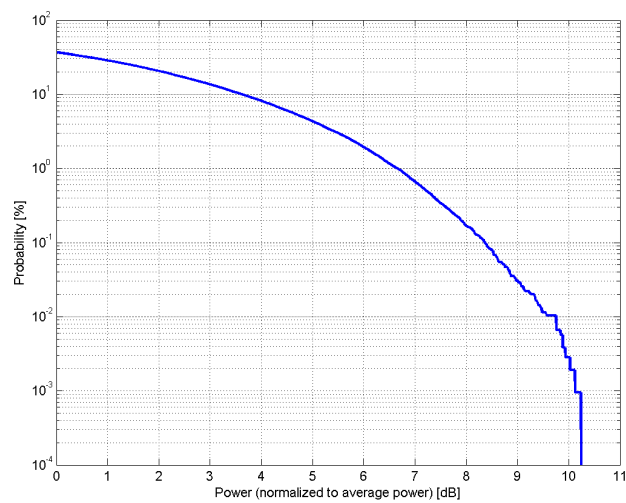
Time Domain

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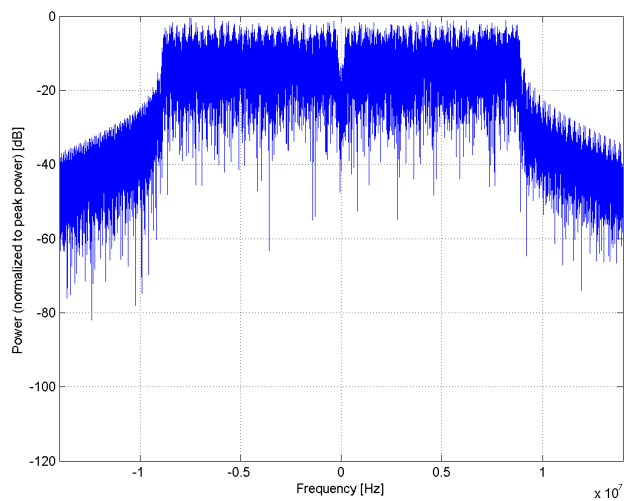
Name:	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)
Group:	WLAN
UID:	10529-AAD
PAR: ¹	8.36 dB
MIF: ²	-15.25 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 4 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	1.3 ms

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

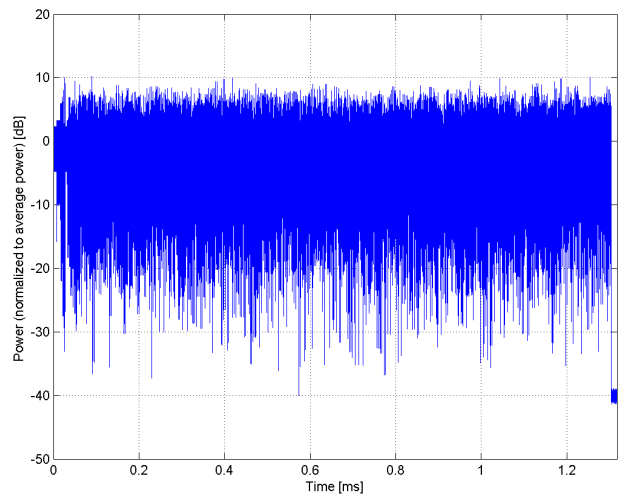
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



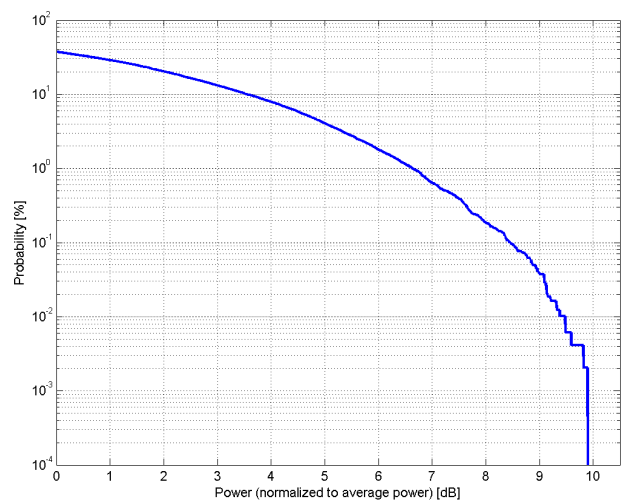
Time Domain

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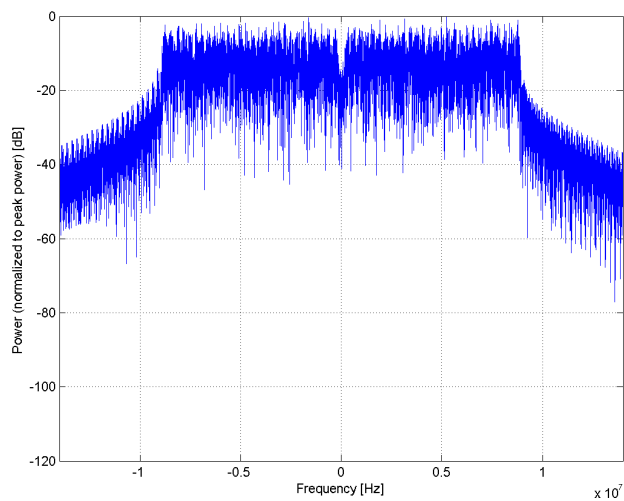
Name:	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)
Group:	WLAN
UID:	10531-AAD
PAR: ¹	8.43 dB
MIF: ²	-18.44 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 6 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.6 ms

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

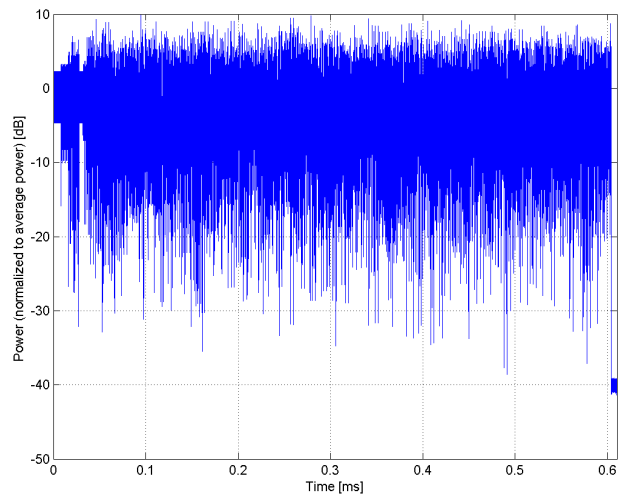
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



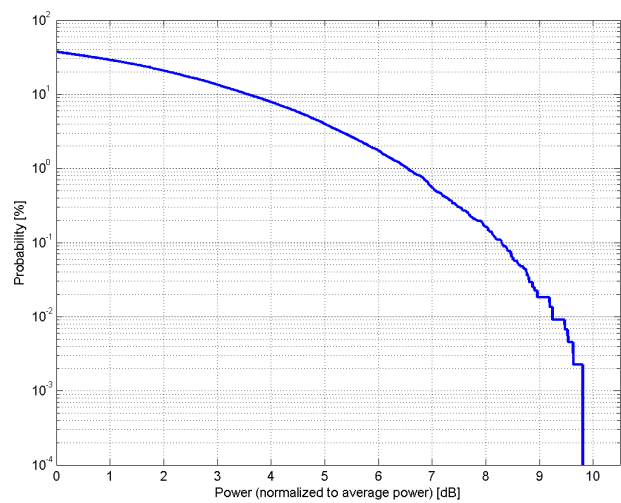
Time Domain

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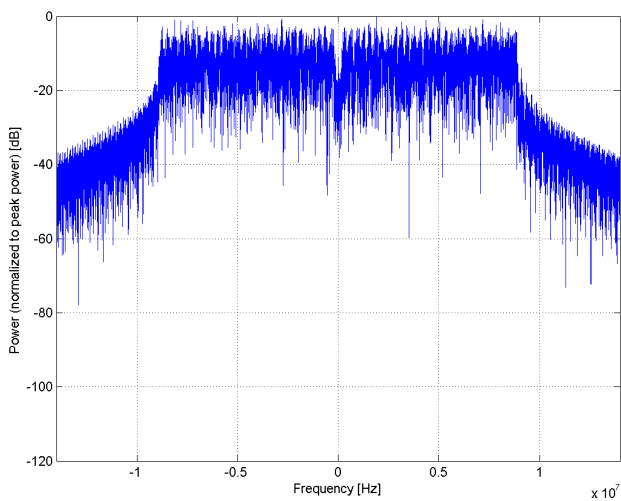
Name:	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)
Group:	WLAN
UID:	10532-AAD
PAR: ¹	8.29 dB
MIF: ²	-18.59 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 7 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.6 ms

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

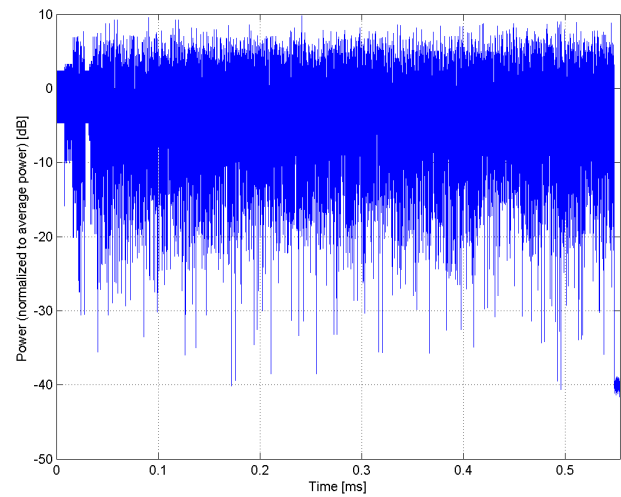
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



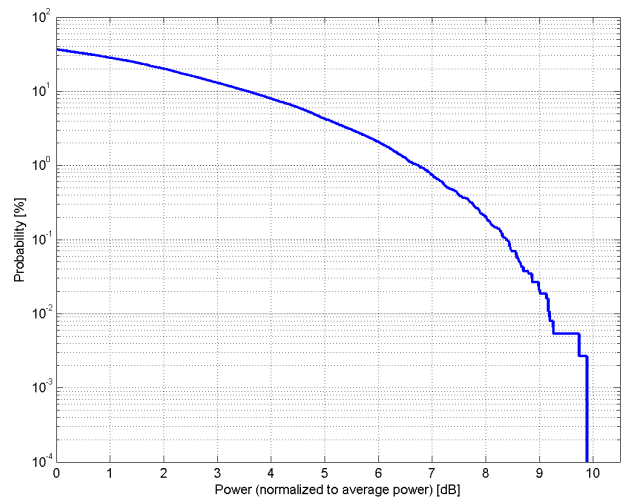
Time Domain

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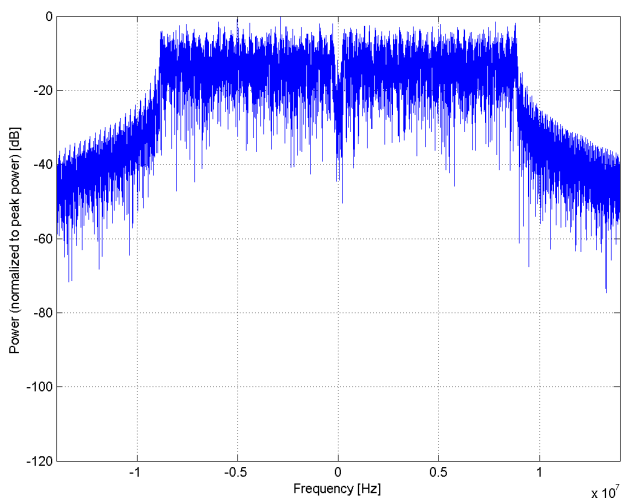
Name:	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)
Group:	WLAN
UID:	10533-AAD
PAR: ¹	8.38 dB
MIF: ²	-20.10 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	256-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 20MHz Duty cycle: 99% MCS: 8 Number of spatial streams: 1 MPDU length: 4096
Bandwidth:	20.0 MHz
Integration Time:	0.5 ms

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

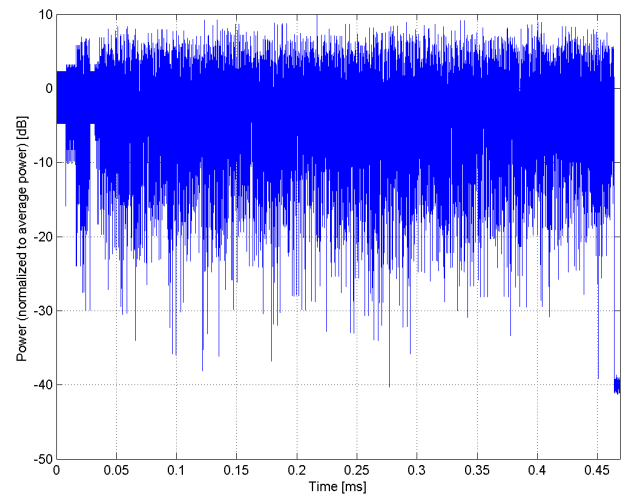
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

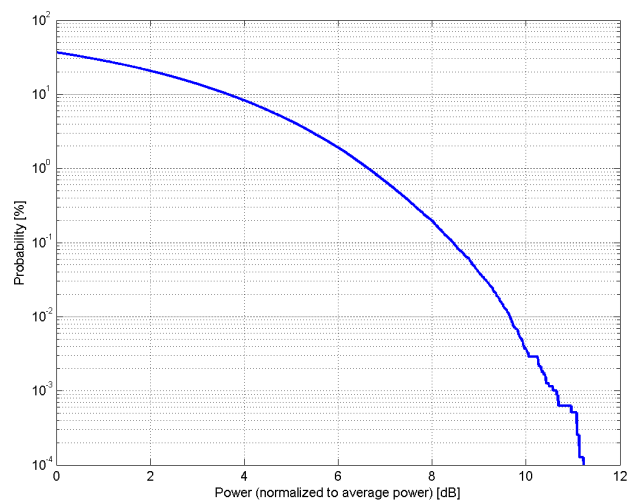


Time Domain

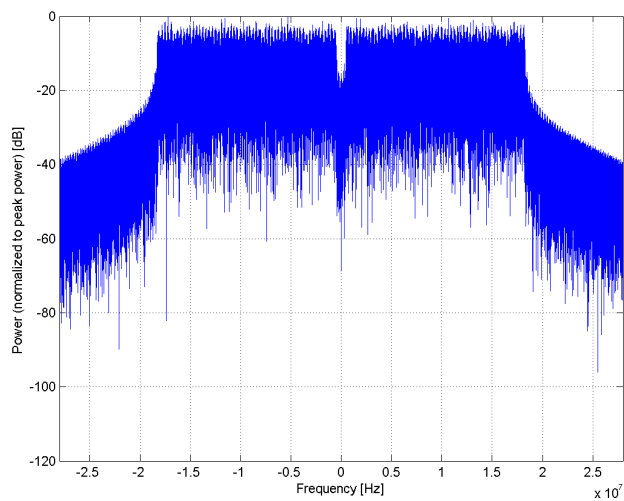
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Name:	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)
Group:	WLAN
UID:	10534-AAD
PAR: ¹	8.45 dB
MIF: ²	-11.92 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	BPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 0 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	4.9 ms

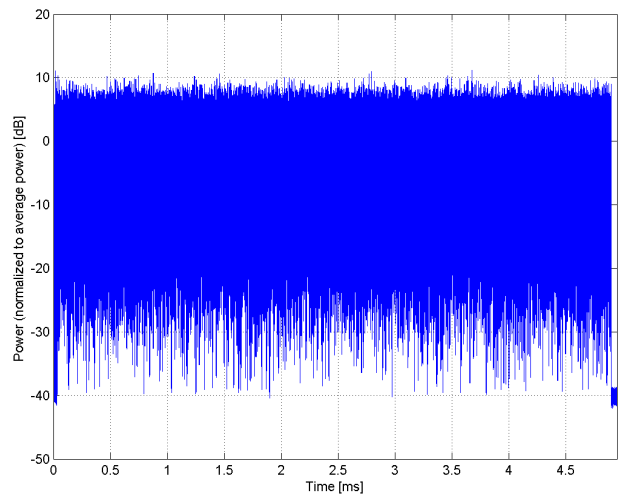
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

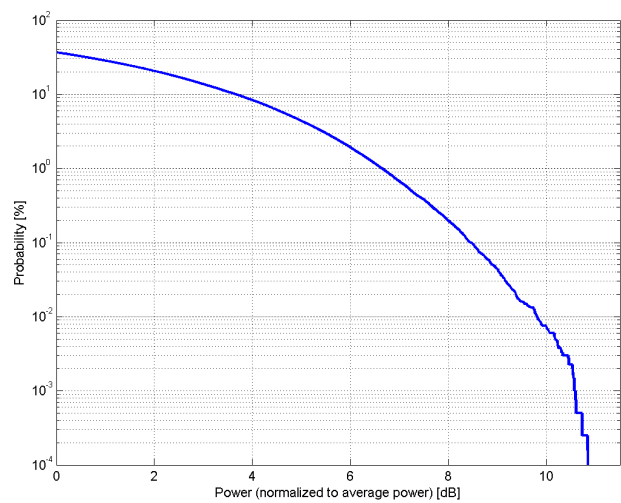


Time Domain

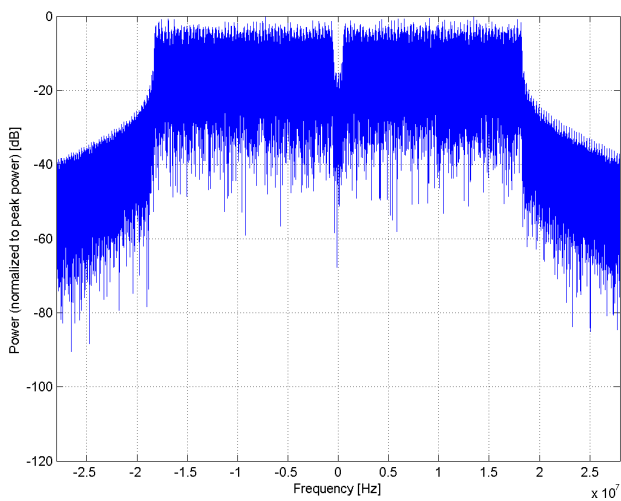
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Name:	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)
Group:	WLAN
UID:	10535-AAD
PAR: ¹	8.45 dB
MIF: ²	-13.12 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 1 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	2.5 ms

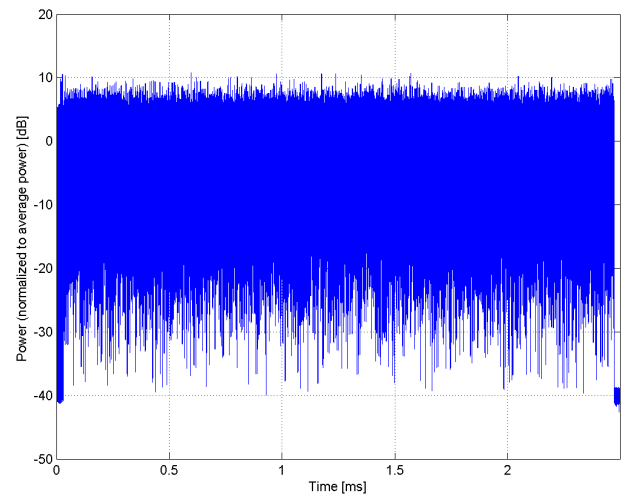
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



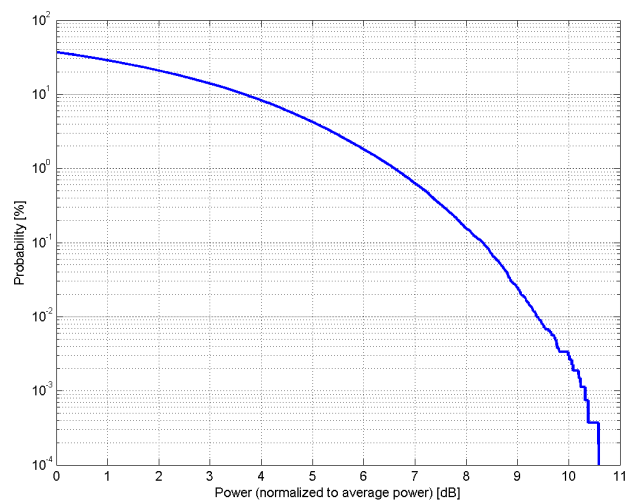
Time Domain

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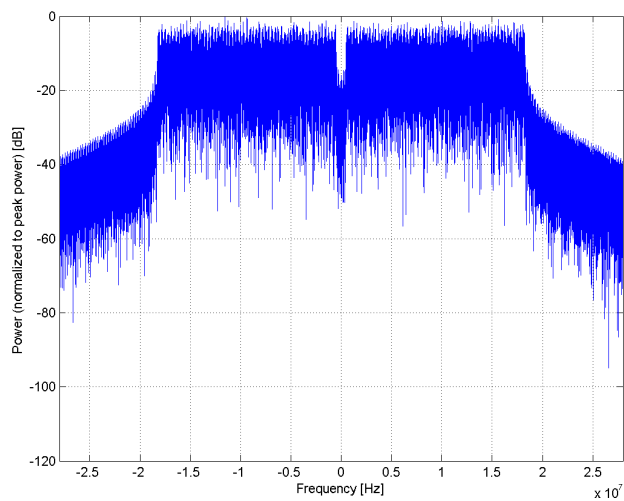
Name:	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)
Group:	WLAN
UID:	10536-AAD
PAR: ¹	8.32 dB
MIF: ²	-13.53 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 2 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	1.7 ms

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

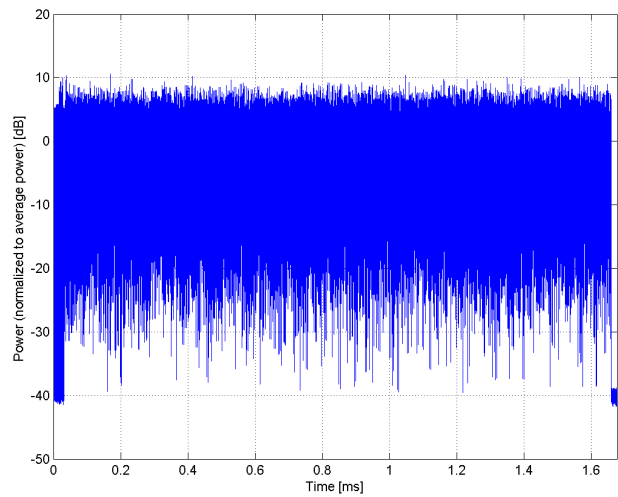
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



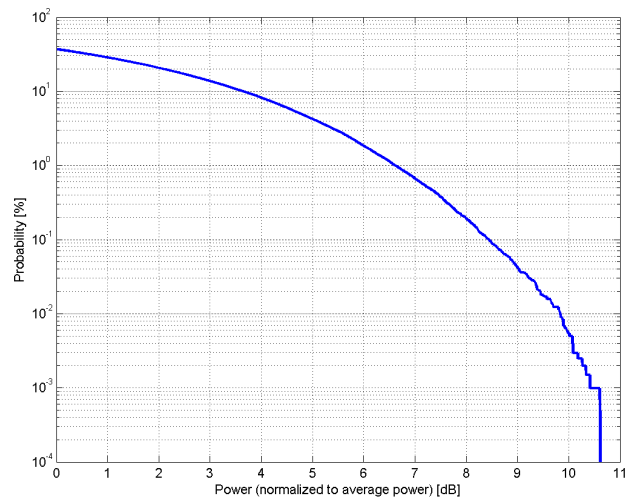
Time Domain

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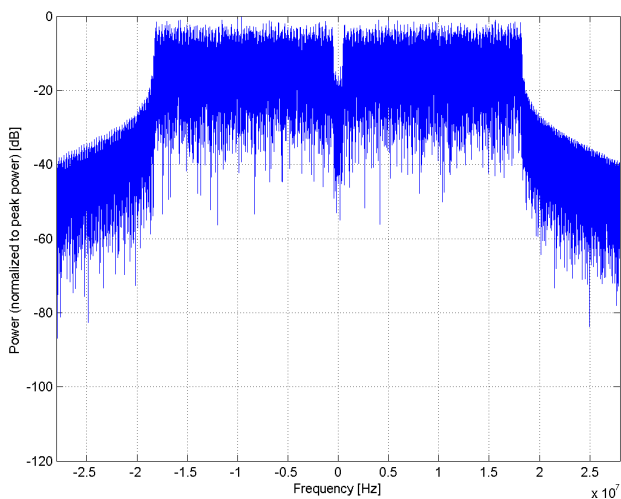
Name:	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)
Group:	WLAN
UID:	10537-AAD
PAR: ¹	8.44 dB
MIF: ²	-13.52 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 3 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	1.3 ms

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

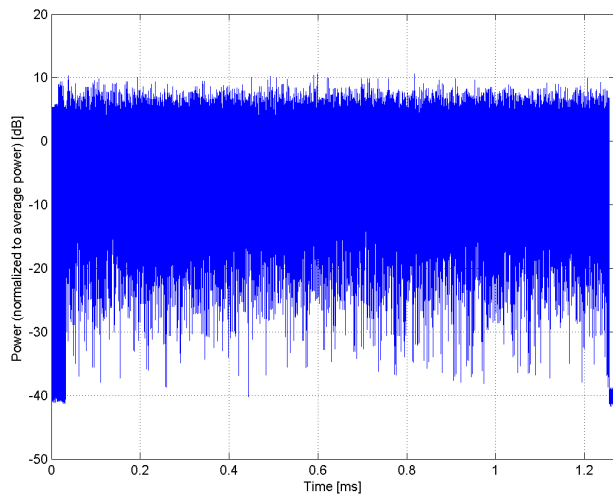
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



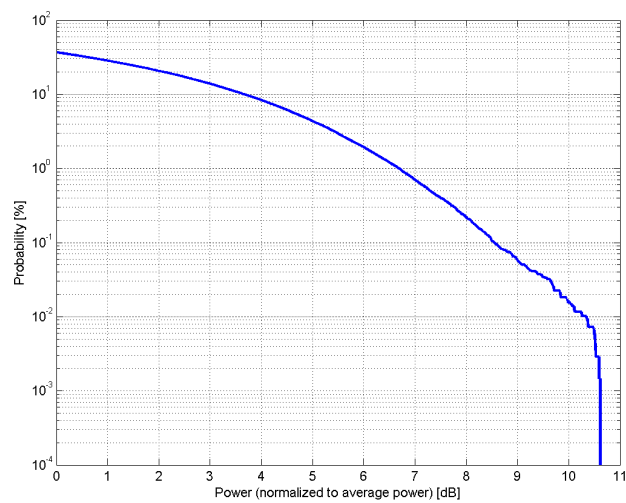
Time Domain

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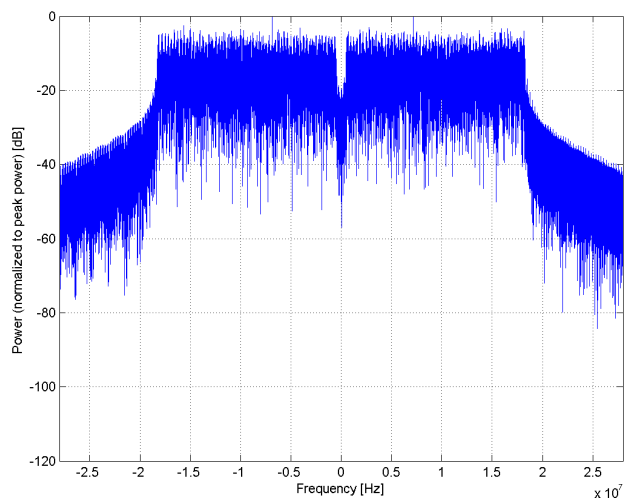
Name:	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)
Group:	WLAN
UID:	10538-AAD
PAR: ¹	8.54 dB
MIF: ²	-14.39 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	16-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 4 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.9 ms

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

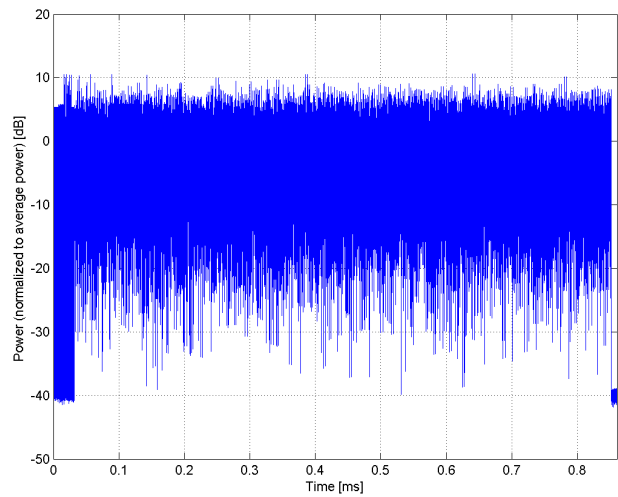
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



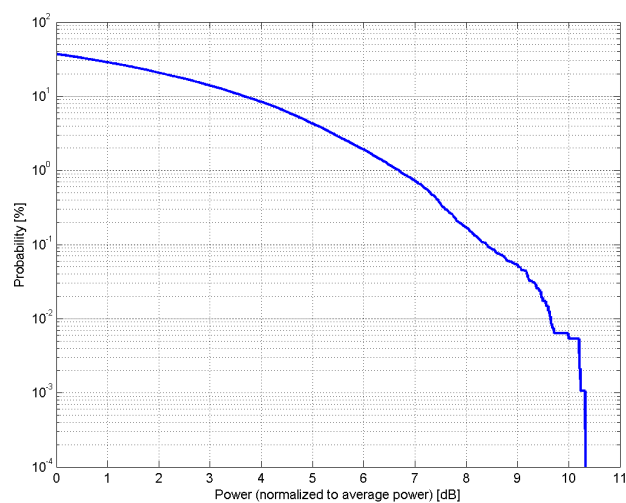
Time Domain

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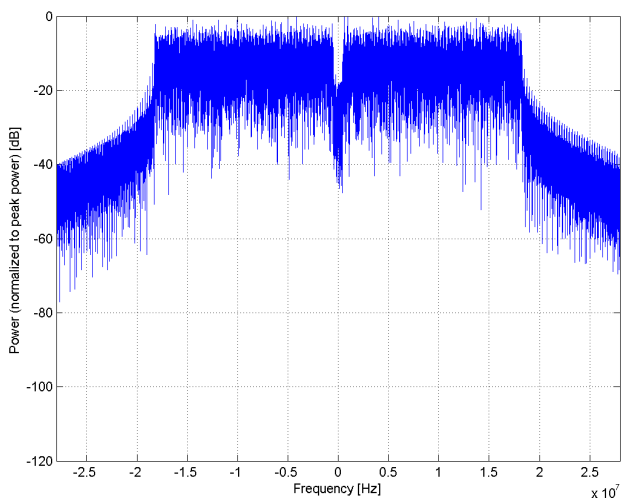
Name:	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)
Group:	WLAN
UID:	10540-AAD
PAR: ¹	8.39 dB
MIF: ²	-15.33 dB
Standard Reference:	IEEE 802.11-2013 FCC OET KDB 248227 D01 802.11 Wi-Fi SAR v02r01
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	WLAN 2.4GHz (2412.0 - 2484.0 MHz) WLAN 5GHz (4915.0 - 5825.0 MHz) U-NII-1, U-NII-2A (5170 - 5330 MHz) U-NII-2C Standalone (5490 - 5710 MHz) U-NII-2C <5.65 GHz (5490 - 5650 MHz) U-NII-3 Standalone (5735 - 5835 MHz) U-NII-2C, U-NII-3 (5650 - 5835 MHz) U-NII-5 (5925 - 6425 MHz) U-NII-6 (6425 - 6525 MHz) U-NII-7 (6525 - 6875 MHz) U-NII-8 (6875 - 7125 MHz) U-NII-4 (5825 - 5925 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Bandwidth: 40MHz Duty cycle: 99% MCS: 6 Number of spatial streams: 1 MPDU length: 8192
Bandwidth:	40.0 MHz
Integration Time:	0.6 ms

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

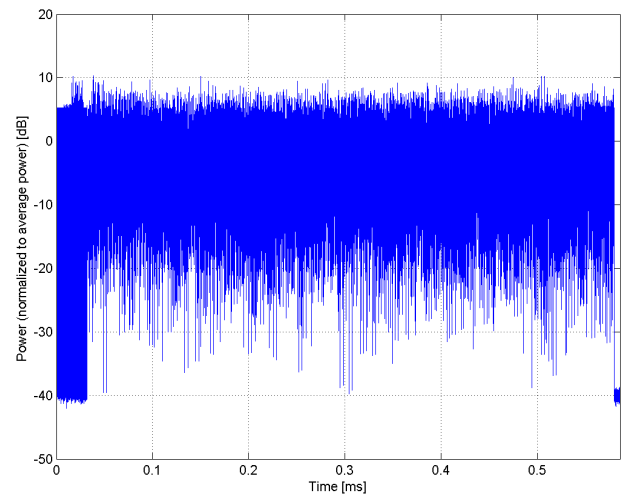
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain