

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Report No.: RFBCUG-WTW-P23030371-6

FCC ID: B32V660P

Product: Point of Sale Terminal

Brand: Verifone

Model No.: V660p-2

Received Date: 2023/3/13

Test Date: 2023/3/23 ~ 2023/4/27

Issued Date: 2023/5/15

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FCC Registration /

Designation Number (1): 788550 / TW0003

FCC Registration /

Designation Number (2): 427177 / TW0011

Approved by: Jeremy Lin, **Date:** 2023/5/15
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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCUG-WTW-P23030371-6	Original release.	2023/5/15

1 Certificate

Product: Point of Sale Terminal

Brand: Verifone

Test Model: V660p-2

Sample Status: Engineering sample

Applicant: Verifone, Inc.

Test Date: 2023/3/23 ~ 2023/4/27

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Measurement procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 22
 47 CFR FCC Part 24
 47 CFR FCC Part 27
 47 CFR FCC Part 90
 47 CFR FCC Part 2

Standard / Clause	Test Item	Result	Remark
FCC 47 CFR Part 2.1046 FCC 47 CFR Part 22.913 (a) FCC 47 CFR Part 24.232 (c) FCC 47 CFR Part 27.50(d) FCC 47 CFR Part 27.50(h) FCC 47 CFR Part 27.50(c) FCC 47 CFR Part 27.50(b) FCC 47 CFR Part 90.635(b) FCC 47 CFR Part 90.542(a)(7)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
FCC 47 CFR Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
FCC 47 CFR Part 22.913 (d) FCC 47 CFR Part 24.232 (d) FCC 47 CFR Part 27.50(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
FCC 47 CFR Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.



47 CFR FCC Part 22
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47 CFR FCC Part 90
47 CFR FCC Part 2

FCC 47 CFR Part 2.1051 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
FCC 47 CFR Part 2.1053 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -17.96 dB at 208.72 MHz



47 CFR FCC Part 22
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47 CFR FCC Part 2

FCC 47 CFR Part 2.1053 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -11.51 dB at 1586.00 MHz
FCC 47 CFR Part 2.1055 FCC 47 CFR Part 22.355 FCC 47 CFR Part 24.235 FCC 47 CFR Part 27.54 FCC 47 CFR Part 90.213 FCC 47 CFR Part 90.539(e)	Frequency Stability	Pass	Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.02 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.01 dB
	18 GHz ~ 40 GHz	1.15 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Point of Sale Terminal
Brand	Verifone
Test Model	V660p-2
Status of EUT	Engineering sample
Power Supply Rating	5Vdc (From adapter) 7.3Vdc (From battery)

Note:

1. EUT Overview

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power		Emission Designator	
		QPSK	16QAM	QPSK	16QAM
LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7-1909.3	208.930mW (23.20dBm)	167.109mW (22.23dBm)	1M09G7D	1M09D7W
LTE Band 2 (Channel Bandwidth 3MHz)	1851.5-1908.5	211.349mW (23.25dBm)	167.880mW (22.25dBm)	2M70G7D	2M70D7W
LTE Band 2 (Channel Bandwidth 5MHz)	1852.5-1907.5	213.304mW (23.29dBm)	168.267mW (22.26dBm)	4M49G7D	4M49D7W
LTE Band 2 (Channel Bandwidth 10MHz)	1855.0-1905.0	215.278mW (23.33dBm)	169.044mW (22.28dBm)	8M96G7D	8M96D7W
LTE Band 2 (Channel Bandwidth 15MHz)	1857.5-1902.5	216.770mW (23.36dBm)	170.216mW (22.31dBm)	13M4G7D	13M4D7W
LTE Band 2 (Channel Bandwidth 20MHz)	1860.0-1900.0	218.273mW (23.39dBm)	170.608mW (22.32dBm)	17M9G7D	17M9D7W
LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7-1754.3	238.232mW (23.77dBm)	172.982mW (22.38dBm)	1M09G7D	1M09D7W
LTE Band 4 (Channel Bandwidth 3MHz)	1711.5-1753.5	240.991mW (23.82dBm)	174.582mW (22.42dBm)	2M70G7D	2M70D7W
LTE Band 4 (Channel Bandwidth 5MHz)	1712.5-1752.5	244.343mW (23.88dBm)	177.419mW (22.49dBm)	4M50G7D	4M50D7W
LTE Band 4 (Channel Bandwidth 10MHz)	1715.0-1750.0	246.037mW (23.91dBm)	179.061mW (22.53dBm)	8M96G7D	8M97D7W
LTE Band 4 (Channel Bandwidth 15MHz)	1717.5-1747.5	248.886mW (23.96dBm)	180.717mW (22.57dBm)	13M5G7D	13M4D7W
LTE Band 4 (Channel Bandwidth 20MHz)	1720.0-1745.0	250.611mW (23.99dBm)	184.502mW (22.66dBm)	18M0G7D	18M0D7W
LTE Band 7 (Channel Bandwidth 5MHz)	2502.5-2567.5	485.289mW (26.86dBm)	363.915mW (25.61dBm)	4M49G7D	4M49D7W
LTE Band 7 (Channel Bandwidth 10MHz)	2505.0-2565.0	492.040mW (26.92dBm)	368.978mW (25.67dBm)	8M96G7D	8M96D7W
LTE Band 7 (Channel Bandwidth 15MHz)	2507.5-2562.5	495.450mW (26.95dBm)	367.282mW (25.65dBm)	13M5G7D	13M5D7W
LTE Band 7 (Channel Bandwidth 20MHz)	2510.0-2560.0	502.343mW (27.01dBm)	373.250mW (25.72dBm)	17M9G7D	18M0D7W

Band / Bandwidth		TX Frequency Range (MHz)	Max. EIRP Power		Emission Designator	
			QPSK	16QAM	QPSK	16QAM
LTE Band 25 (Channel Bandwidth 1.4MHz)		1850.7-1914.3	229.615mW (23.61dBm)	167.109mW (22.23dBm)	1M09G7D	1M09D7W
LTE Band 25 (Channel Bandwidth 3MHz)		1851.5-1913.5	234.423mW (23.70dBm)	168.655mW (22.27dBm)	2M70G7D	2M70D7W
LTE Band 25 (Channel Bandwidth 5MHz)		1852.5-1912.5	236.048mW (23.73dBm)	171.002mW (22.33dBm)	4M50G7D	4M49D7W
LTE Band 25 (Channel Bandwidth 10MHz)		1855.0-1910.0	237.684mW (23.76dBm)	172.187mW (22.36dBm)	8M96G7D	8M96D7W
LTE Band 25 (Channel Bandwidth 15MHz)		1857.5-1907.5	240.436mW (23.81dBm)	172.982mW (22.38dBm)	13M4G7D	13M4D7W
LTE Band 25 (Channel Bandwidth 20MHz)		1860.0-1905.0	242.661mW (23.85dBm)	174.985mW (22.43dBm)	17M9G7D	17M9D7W
For Part 22	LTE Band 26 (Channel Bandwidth 1.4MHz)	824.7-848.3	115.345mW (20.62dBm)	88.920mW (19.49dBm)	1M09G7D	1M09D7W
	LTE Band 26 (Channel Bandwidth 3MHz)	825.5-847.5	114.815mW (20.60dBm)	86.298mW (19.36dBm)	2M70G7D	2M70D7W
	LTE Band 26 (Channel Bandwidth 5MHz)	826.5-846.5	115.878mW (20.64dBm)	86.497mW (19.37dBm)	4M49G7D	4M49D7W
	LTE Band 26 (Channel Bandwidth 10MHz)	829.0-844.0	116.950mW (20.68dBm)	86.298mW (19.36dBm)	8M96G7D	8M96D7W
	LTE Band 26 (Channel Bandwidth 15MHz)	831.5-841.5	117.761mW (20.71dBm)	87.096mW (19.40dBm)	13M4G7D	13M4D7W
For Part 90	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7-823.3	111.686mW (20.48dBm)	88.920mW (19.49dBm)	1M09G7D	1M09D7W
	LTE Band 26 (Channel Bandwidth 3MHz)	815.5-822.5	112.460mW (20.51dBm)	82.794mW (19.18dBm)	2M70G7D	2M70D7W
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5-821.5	112.980mW (20.53dBm)	83.560mW (19.22dBm)	4M49G7D	4M49D7W
	LTE Band 26 (Channel Bandwidth 10MHz)	819.0	111.429mW (20.47dBm)	83.368mW (19.21dBm)	8M95G7D	8M95D7W
LTE Band 41 (Channel Bandwidth 5MHz)		2498.5-2687.5	390.841mW (25.92dBm)	309.030mW (24.90dBm)	4M49G7D	4M49D7W
LTE Band 41 (Channel Bandwidth 10MHz)		2501.0-2685.0	398.107mW (26.00dBm)	316.957mW (25.01dBm)	8M95G7D	8M95D7W
LTE Band 41 (Channel Bandwidth 15MHz)		2503.5-2682.5	401.791mW (26.04dBm)	318.420mW (25.03dBm)	13M4G7D	13M4D7W
LTE Band 41 (Channel Bandwidth 20MHz)		2506.0-2680.0	405.509mW (26.08dBm)	299.916mW (24.77dBm)	17M9G7D	17M9D7W

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power		Emission Designator	
		QPSK	16QAM	QPSK	16QAM
LTE Band 66 (Channel Bandwidth 1.4 MHz)	1710.7-1779.3	245.471mW (23.90dBm)	176.198mW (22.46dBm)	1M09G7D	1M09D7W
LTE Band 66 (Channel Bandwidth 3MHz)	1711.5-1778.5	244.906mW (23.89dBm)	177.828mW (22.50dBm)	2M70G7D	2M70D7W
LTE Band 66 (Channel Bandwidth 5MHz)	1712.5-1777.5	247.172mW (23.93dBm)	179.061mW (22.53dBm)	4M50G7D	4M50D7W
LTE Band 66 (Channel Bandwidth 10MHz)	1715.0-1775.0	250.035mW (23.98dBm)	183.231mW (22.63dBm)	8M97G7D	8M97D7W
LTE Band 66 (Channel Bandwidth 15MHz)	1717.5-1772.5	252.930mW (24.03dBm)	183.654mW (22.64dBm)	13M5G7D	13M5D7W
LTE Band 66 (Channel Bandwidth 20MHz)	1720.0-1770.0	254.683mW (24.06dBm)	184.502mW (22.66dBm)	18M0G7D	18M0D7W

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power		Emission Designator	
		QPSK	16QAM	QPSK	16QAM
LTE Band 5 (Channel Bandwidth 1.4MHz)	824.7-848.3	104.713mW (20.20dBm)	78.343mW (18.94dBm)	1M09G7D	1M09D7W
LTE Band 5 (Channel Bandwidth 3MHz)	825.5-847.5	106.660mW (20.28dBm)	78.886mW (18.97dBm)	2M70G7D	2M70D7W
LTE Band 5 (Channel Bandwidth 5MHz)	826.5-846.5	107.399mW (20.31dBm)	79.433mW (19.00dBm)	4M49G7D	4M49D7W
LTE Band 5 (Channel Bandwidth 10MHz)	829.0-844.0	107.895mW (20.33dBm)	80.538mW (19.06dBm)	8M96G7D	8M96D7W
LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7-715.3	192.752mW (22.85dBm)	142.561mW (21.54dBm)	1M09G7D	1M09D7W
LTE Band 12 (Channel Bandwidth 3MHz)	700.5-714.5	195.884mW (22.92dBm)	143.880mW (21.58dBm)	2M70G7D	2M70D7W
LTE Band 12 (Channel Bandwidth 5MHz)	701.5-713.5	198.153mW (22.97dBm)	145.546mW (21.63dBm)	4M49G7D	4M49D7W
LTE Band 12 (Channel Bandwidth 10MHz)	704.0-711.0	200.447mW (23.02dBm)	146.893mW (21.67dBm)	8M97G7D	8M97D7W
LTE Band 13 (Channel Bandwidth 5MHz)	779.5-784.5	66.834mW (18.25dBm)	49.888mW (16.98dBm)	4M50G7D	4M50D7W
LTE Band 13 (Channel Bandwidth 10MHz)	782.0	67.608mW (18.30dBm)	50.003mW (16.99dBm)	8M91G7D	8M91D7W
LTE Band 14 (Channel Bandwidth 5MHz)	790.5-795.5	67.453mW (18.29dBm)	49.774mW (16.97dBm)	4M50G7D	4M50D7W
LTE Band 14 (Channel Bandwidth 10MHz)	793	67.920mW (18.32dBm)	50.234mW (17.01dBm)	8M96G7D	8M96D7W
LTE Band 17 (Channel Bandwidth 5MHz)	706.5-713.5	217.270mW (23.37dBm)	164.816mW (22.17dBm)	4M49G7D	4M49D7W
LTE Band 17 (Channel Bandwidth 10MHz)	709.0-711.0	219.786mW (23.42dBm)	165.196mW (22.18dBm)	8M94G7D	8M94D7W

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power		Emission Designator	
		QPSK	16QAM	QPSK	16QAM
LTE Band 71 (Channel Bandwidth 5MHz)	665.5-695.5	403.645mW (26.06dBm)	310.456mW (24.92dBm)	4M50G7D	4M49D7W
LTE Band 71 (Channel Bandwidth 10MHz)	668.0-693.0	405.509mW (26.08dBm)	316.228mW (25.00dBm)	8M97G7D	8M97D7W
LTE Band 71 (Channel Bandwidth 15MHz)	670.5-690.5	410.204mW (26.13dBm)	314.051mW (24.97dBm)	13M5G7D	13M5D7W
LTE Band 71 (Channel Bandwidth 20MHz)	673.0-688.0	413.048mW (26.16dBm)	321.366mW (25.07dBm)	17M9G7D	17M9D7W

2. The accessory devices of EUT, please refer to external photo.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	Ant. 1	Ant. 2
Function	TX/RX	RX
Antenna Type	Dipole	PIFA
Antenna Connector	NA	NA
Band	Gain (dBi)	Gain (dBi)
Band 2	1.0	3.7
Band 4	1.6	2.1
Band 5	0.0	-2.7
Band 7	3.6	2.9
Band 12	2.8	-7.7
Band 13	-2.5	-5.0
Band 14	-2.0	-5.1
Band 17	2.8	-7.7
Band 25	1.0	3.7
Band 26	0.0	-2.7
Band 41	3.6	2.9
Band 66	1.6	2.1
Band 71	2.7	-8.9

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	X-axis/ Y-axis/ Z-axis Worst Condition: X-axis

For LTE Band 2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	18900 (1880.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	18607 (1850.70 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK	Full RB
	18615 (1851.50 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK	Full RB
	18625 (1852.50 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK	Full RB
	18650 (1855.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK	Full RB
	18675 (1857.50 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK	Full RB
	18700 (1860.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Occupied Bandwidth	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK	1 RB Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK	1 RB Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK	1 RB Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK	1 RB Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	18700 (1860.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK	1 RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK	1 RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 4

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	20175 (1732.50 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	19957 (1710.70 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK	Full RB
	19965 (1711.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK	Full RB
	19975 (1712.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK	Full RB
	20000 (1715.00 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK	Full RB
	20025 (1717.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK	Full RB
	20050 (1720.00 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM	1 RB
Conducted Emission	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK	1 RB Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK	1 RB Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK	1 RB Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	20375 (1752.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK	1 RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK	1 RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 5

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	20525 (836.50 MHz)	10 MHz	QPSK / 16QAM	Full RB
Frequency Stability	20407 (824.70 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK	Full RB
	20415 (825.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK	Full RB
	20425 (826.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK	Full RB
	20450 (829.00 MHz) 20600 (844.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK	1 RB Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	20600 (844.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK	1 RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK	1 RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 7

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	21100 (2535.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	20775 (2502.50 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	Full RB
	20800 (2505.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK	Full RB
	20825 (2507.50 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK	Full RB
	20850 (2510.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK	1 RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK	1 RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	21350 (2560.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 12

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	23095 (707.50 MHz)	10 MHz	QPSK / 16QAM	Full RB
Frequency Stability	23017 (699.70 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK	Full RB
	23025 (700.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK	Full RB
	23035 (701.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK	Full RB
	23060 (704.00 MHz) 23130 (711.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK	1 RB Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23060 (704.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK	1 RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK	1 RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 13

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Frequency Stability	23205 (779.50 MHz) 23255 (784.50 MHz)	5 MHz	QPSK	Full RB
	23230 (782.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
Conducted Emission	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23230 (782.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23230 (782.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK	1 RB
	23230 (782.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 14

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Frequency Stability	23305 (790.50 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Conducted Emission	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	1 RB
	23330 (793.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 17

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	23790 (710.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Frequency Stability	23755 (706.50 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	Full RB
	23780 (709.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
Conducted Emission	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 25

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	26365 (1882.50 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	26047 (1850.70 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK	Full RB
	26055 (1851.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK	Full RB
	26065 (1852.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK	Full RB
	26090 (1855.00 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK	Full RB
	26115 (1857.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK	Full RB
	26140 (1860.00 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM	1 RB
Conducted Emission	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK	1 RB Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK	1 RB Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26590 (1905.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK	1 RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK	1 RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 26 (Part 22)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	26915 (836.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
Frequency Stability	26797 (824.70 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK	Full RB
	26805 (825.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK	Full RB
	26815 (826.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK	Full RB
	26840 (829.00 MHz) 26990 (844.00 MHz)	10 MHz	QPSK	Full RB
	26865 (831.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK	Full RB
Occupied Bandwidth	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM	1 RB
	Conducted Emission	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK
26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)		3 MHz	QPSK	1 RB Full RB
26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)		5 MHz	QPSK	1 RB Full RB
26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)		10 MHz	QPSK	1 RB Full RB
26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)		15 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26865 (831.50 MHz)	15 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK	1 RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK	1 RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK	1 RB

For LTE Band 26 (Part 90)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	26740 (819.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	26740 (819.00 MHz)	10MHz	QPSK / 16QAM	Full RB
Frequency Stability	26697 (814.70 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK	Full RB
	26705 (815.50 MHz) 26775 (822.50 MHz)	3 MHz	QPSK	Full RB
	26715 (816.50 MHz) 26765 (821.50 MHz)	5 MHz	QPSK	Full RB
	26740 (819.00 MHz)	10 MHz	QPSK	Full RB
Occupied Bandwidth	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	26740 (819.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
Conducted Emission	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26740 (819.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26740 (819.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK	1 RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK	1 RB
	26740 (819.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	39700 (2501.00 MHz) 40620 (2593.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	39725 (2503.50 MHz) 40620 (2593.00 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	40620 (2593.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	39675 (2498.50 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK	Full RB
	39700 (2501.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK	Full RB
	39725 (2503.50 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK	Full RB
	39750 (2506.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	39700 (2501.00 MHz) 40620 (2593.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	39725 (2503.50 MHz) 40620 (2593.00 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	39700 (2501.00 MHz) 40620 (2593.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	39725 (2503.50 MHz) 40620 (2593.00 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK	1 RB Full RB
	39700 (2501.00 MHz) 40620 (2593.00 MHz) 41540 (2685.00 MHz)	10 MHz	QPSK	1 RB Full RB
	39725 (2503.50 MHz) 40620 (2593.00 MHz) 41515 (2682.50 MHz)	15 MHz	QPSK	1 RB Full RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	40620 (2593.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	39675 (2498.50 MHz) 40620 (2593.00 MHz) 41565 (2687.50 MHz)	5 MHz	QPSK	1 RB
	39750 (2506.00 MHz) 40620 (2593.00 MHz) 41490 (2680.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 66

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	132322 (1745.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	131979 (1710.70 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK	Full RB
	131987 (1711.50 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK	Full RB
	131997 (1712.50 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK	Full RB
	132022 (1715.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK	Full RB
	132047 (1717.50 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK	Full RB
	132072 (1720.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM	Full RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM	Full RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM	1 RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM	1 RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM	1 RB
	Conducted Emission	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK
131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)		3 MHz	QPSK	1 RB Full RB
131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)		5 MHz	QPSK	1 RB Full RB
132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)		10 MHz	QPSK	1 RB Full RB
132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)		15 MHz	QPSK	1 RB Full RB
132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)		20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz		132322 (1745.00 MHz)	20 MHz	QPSK
Radiated Spurious Emissions above 1GHz	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK	1 RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK	1 RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 71

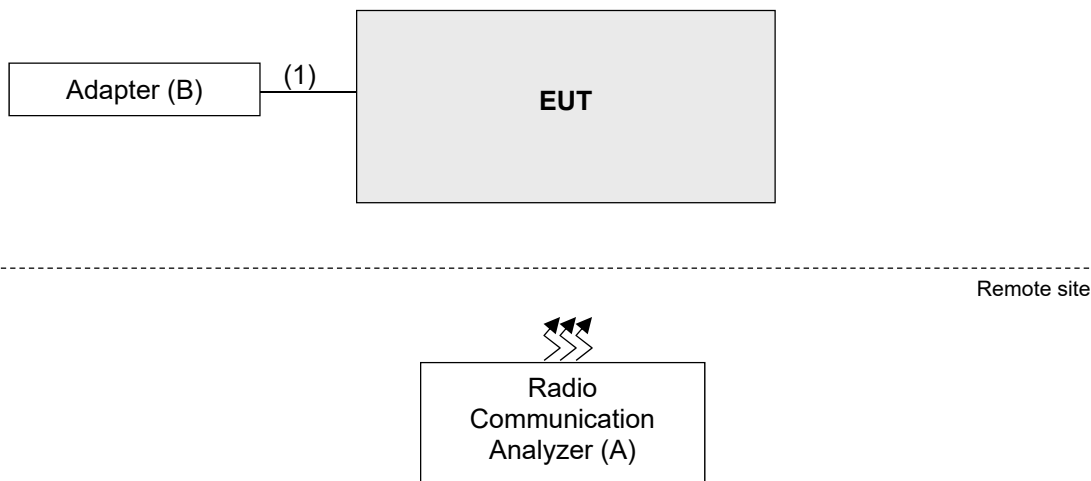
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM	1 RB Half RB Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM	1 RB Half RB Full RB
Modulation Characteristics	133297 (680.50 MHz)	20 MHz	QPSK / 16QAM	Full RB
Frequency Stability	133147 (665.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK	Full RB
	133172 (668.00 MHz) 133422 (693.00 MHz)	10 MHz	QPSK	Full RB
	133197 (670.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK	Full RB
	133222 (673.00 MHz) 133372 (688.00 MHz)	20 MHz	QPSK	Full RB
Occupied Bandwidth	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM	Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM	Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM	Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM	Full RB
Peak to Average Ratio	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM	1 RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM	1 RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM	1 RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK	1 RB Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK	1 RB Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK	1 RB Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	133222 (673.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK	1 RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK	1 RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
B	Adapter	Verifone	S011HU0520220	N/A	N/A	Accessory of EUT

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB To Type C Cable	1	1.4	Y	0	Accessory of EUT

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY57140488	2023/3/6	2024/3/5
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/3/28 ~ 2023/4/11

4.2 Modulation Characteristics

Refer to section 4.1 to get information of the instruments.

4.3 Peak to Average Ratio

Refer to section 4.1 to get information of the instruments.

4.4 Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.1 to get information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB9168	9168-616	2022/10/26	2023/10/25
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
Preamplifier Agilent	310N	187226	2022/6/14	2023/6/13
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2022/9/19	2023/9/18
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/3/28 ~ 2023/3/29

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	UNAT_5+	PAD-CH6-01	N/A	N/A
Antenna Tower Controller Max-Full	MF-7802	N/A	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	8	N/A	N/A
Horn Antenna ETS-Lindgren	3117	00143293	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	BBHA9170241	2022/10/20	2023/10/19
Pre-Amplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
Preamplifier Agilent	83017A	MY39501373	2022/6/14	2023/6/13
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4)	2022/6/14	2023/6/13
	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	2022/6/14	2023/6/13
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY52260177	2022/9/19	2023/9/18
Turn Table Max-Full	TT-1510	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802	N/A	N/A	N/A
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/3/23

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Signal and spectrum analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/12/27	2023/12/26
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/27

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

For LTE Band 4, LTE Band 66:

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

For LTE Band 5, LTE Band 26 (Part 22):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

For LTE Band 7, LTE Band 41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 12, LTE Band 17, LTE Band 71:

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

For LTE Band 13:

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

For LTE Band 14:

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

For LTE Band 26 (Part 90):

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ERP.

5.2 Modulation Characteristics

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

5.3 Peak to Average Ratio

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.4 Bandwidth

According to FCC 47 CFR part 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.

5.5 Conducted Spurious Emissions

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For LTE Band 7, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4) regulations, any transmit power outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 47 CFR part 27.53(c)(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

According to FCC 47 CFR part 90.691 shall be tested the emission masks. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

For LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

5.6 Radiated Spurious Emissions below 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 7, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

5.7 Radiated Spurious Emissions above 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 7, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

5.8 Frequency Stability

For LTE Band 5:

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

For LTE Band 2, LTE Band 4, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 25, LTE Band 26 (Part 22 and Part 90), LTE Band 41, LTE Band 66, LTE Band 71:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

For LTE Band 14

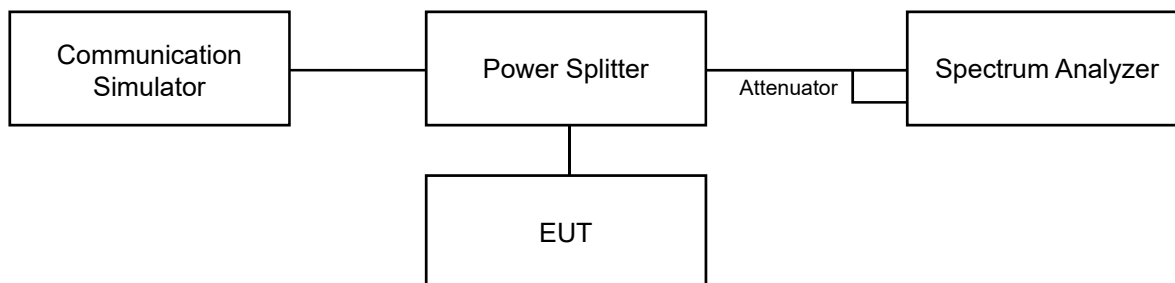
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e. Set Sweep time = auto-couple.
- f. Detector = power averaging (rms).
- g. Set sweep trigger to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges.
- j. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

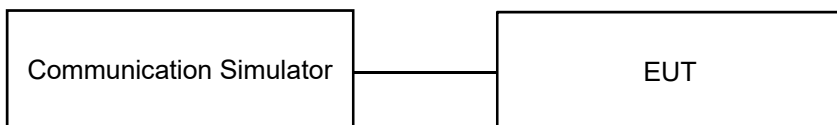
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

6.2 Modulation Characteristics

6.2.1 Test Setup

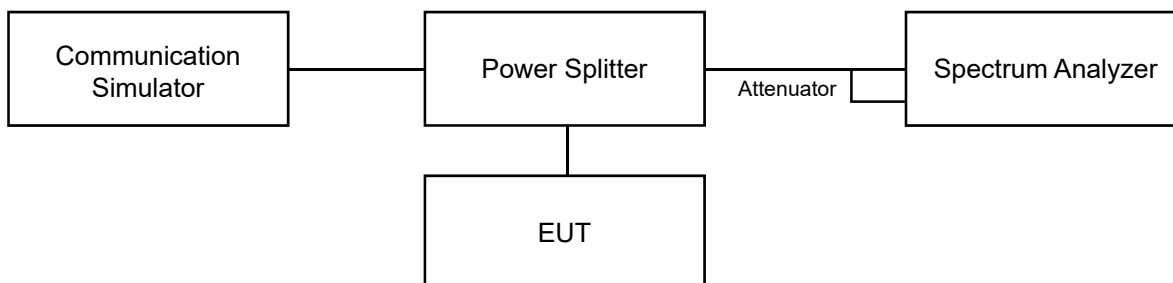


6.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

6.3 Peak to Average Ratio

6.3.1 Test Setup

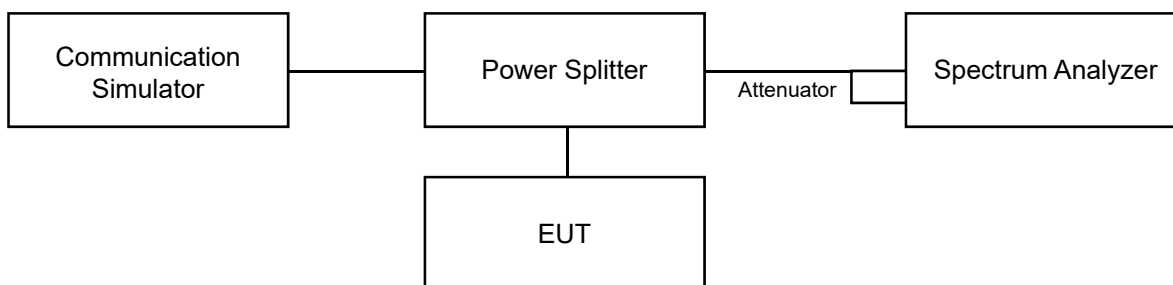


6.3.2 Test Procedure

- a. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- b. Set the number of counts to a value that stabilizes the measured CCDF curve;
- c. Record the maximum PAPR level associated with a probability of 0.1%.

6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

For the 26 dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

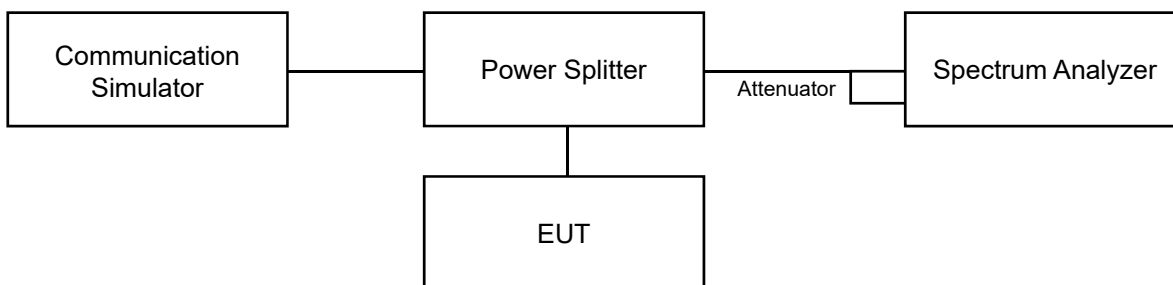
- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the following reference values: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- g. Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- i. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the reference value by either of the following:
 - g. 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - h. 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- i. Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- j. If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- k. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “-X dB amplitude” at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “-X dB amplitude.”
- l. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



6.5.2 Test Procedure

- a. Measurement refer to ANSI C63.26 section 5.7.
- b. All measurements were done at 3 channels: low, middle and high operational frequency range.
- c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
- d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- e. The fundamental frequency below 1 GHz, the spectrum set RBW \geq 100 kHz, VBW \geq 3 x RBW, Detector = Average.
- f. Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.

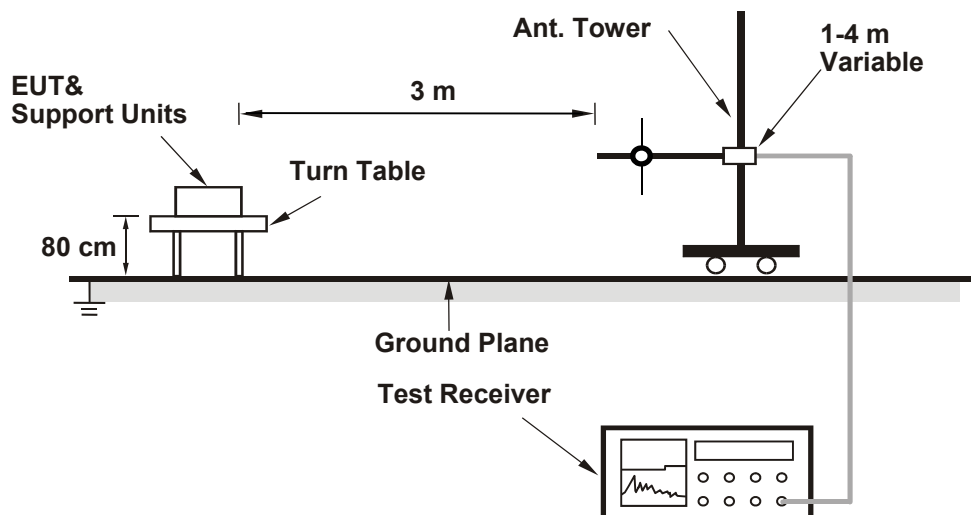
For Emission Mask:

- a. Measurement refer to ANSI C63.26 section 5.7.
- b. All measurements were done at 2 channels: low and high operational frequency range.
- c. According to FCC 47 CFR part 90.691(a), the spectrum set RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
- d. Record the maximum power value test plot.

6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For radiated emission 30 MHz to 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

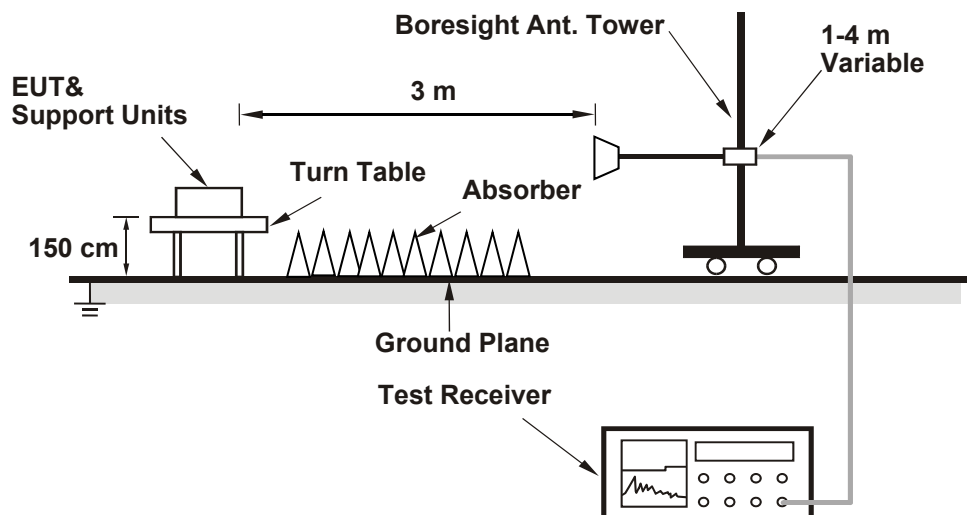
Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
- The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

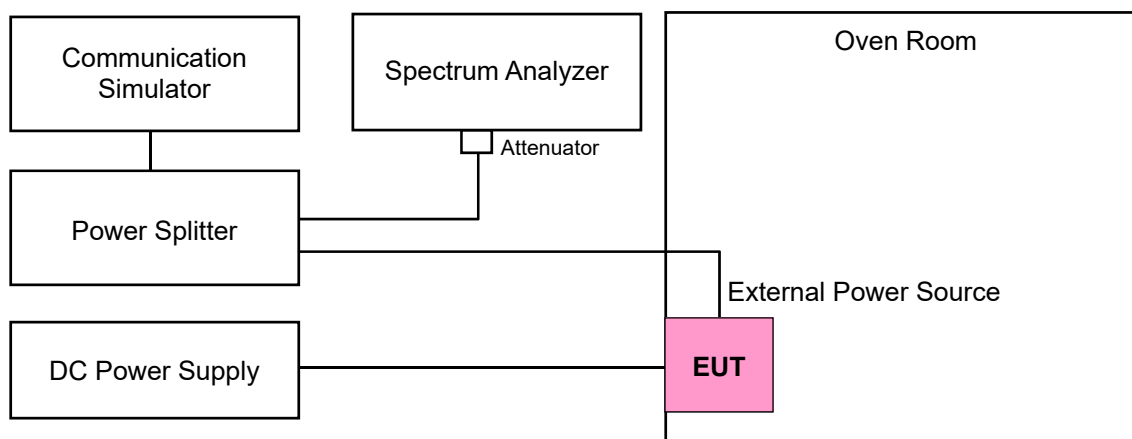
- In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	7.3 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.1.1 LTE Band 2

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	22.39	22.23	22.31
		1	50	22.35	22.19	22.28
		1	99	22.21	22.03	22.21
		50	0	21.49	21.39	21.43
		50	25	21.47	21.42	21.47
		50	50	21.31	21.29	21.27
		100	0	21.35	21.21	21.32
20M	16QAM	1	0	21.32	21.20	21.25
		1	50	21.28	21.18	21.23
		1	99	20.85	20.84	20.83
		50	0	20.37	20.28	20.34
		50	25	20.29	20.12	20.25
		50	50	20.25	20.16	20.21
		100	0	20.29	20.22	20.26
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	22.36	22.21	22.27
		1	37	22.27	22.09	22.20
		1	74	22.11	21.94	22.17
		36	0	21.43	21.31	21.42
		36	19	21.41	21.38	21.38
		36	39	21.22	21.28	21.25
		75	0	21.34	21.12	21.30
15M	16QAM	1	0	21.31	21.13	21.19
		1	37	21.23	21.14	21.21
		1	74	20.80	20.77	20.83
		36	0	20.28	20.25	20.30
		36	19	20.28	20.02	20.23
		36	39	20.15	20.15	20.12
		75	0	20.19	20.15	20.17
		75	0	22.36	22.21	22.27

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.33	22.13	22.25
		1	24	22.27	22.08	22.18
		1	49	22.21	21.96	22.17
		25	0	21.46	21.32	21.33
		25	12	21.47	21.41	21.47
		25	25	21.26	21.22	21.19
		50	0	21.34	21.12	21.25
10M	16QAM	1	0	21.28	21.17	21.25
		1	24	21.27	21.08	21.21
		1	49	20.83	20.80	20.74
		25	0	20.32	20.19	20.25
		25	12	20.29	20.09	20.21
		25	25	20.18	20.07	20.11
		50	0	20.19	20.17	20.21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	22.29	22.16	22.22
		1	12	22.25	22.13	22.20
		1	24	22.15	21.99	22.18
		12	0	21.42	21.29	21.39
		12	6	21.37	21.33	21.47
		12	13	21.26	21.21	21.19
		25	0	21.32	21.15	21.31
5M	16QAM	1	0	21.26	21.12	21.18
		1	12	21.25	21.09	21.21
		1	24	20.75	20.78	20.79
		12	0	20.37	20.18	20.34
		12	6	20.29	20.02	20.24
		12	13	20.21	20.10	20.14
		25	0	20.24	20.18	20.23

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	22.25	22.12	22.18
		1	7	22.19	22.08	22.15
		1	14	22.07	21.96	22.11
		8	0	21.33	21.25	21.30
		8	3	21.29	21.30	21.44
		8	7	21.22	21.20	21.12
		15	0	21.25	21.07	21.24
3M	16QAM	1	0	21.25	21.05	21.17
		1	7	21.18	21.03	21.16
		1	14	20.75	20.70	20.73
		8	0	20.37	20.11	20.31
		8	3	20.24	20.00	20.18
		8	7	20.13	20.09	20.09
		15	0	20.21	20.08	20.18
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	22.20	22.06	22.10
		1	2	22.14	22.04	22.06
		1	5	22.07	21.89	22.02
		3	0	21.31	21.21	21.24
		3	1	21.19	21.30	21.37
		3	3	21.16	21.19	21.03
		6	0	21.22	21.07	21.19
1.4M	16QAM	1	0	21.23	21.05	21.12
		1	2	21.08	20.97	21.10
		1	5	20.74	20.65	20.68
		3	0	20.30	20.02	20.24
		3	1	20.23	19.91	20.18
		3	3	20.13	20.00	20.05
		6	0	20.12	20.04	20.17



EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.39	23.23	23.31
		1	50	23.35	23.19	23.28
		1	99	23.21	23.03	23.21
		50	0	22.49	22.39	22.43
		50	25	22.47	22.42	22.47
		50	50	22.31	22.29	22.27
		100	0	22.35	22.21	22.32
20M	16QAM	1	0	22.32	22.20	22.25
		1	50	22.28	22.18	22.23
		1	99	21.85	21.84	21.83
		50	0	21.37	21.28	21.34
		50	25	21.29	21.12	21.25
		50	50	21.25	21.16	21.21
		100	0	21.29	21.22	21.26
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.36	23.21	23.27
		1	37	23.27	23.09	23.20
		1	74	23.11	22.94	23.17
		36	0	22.43	22.31	22.42
		36	19	22.41	22.38	22.38
		36	39	22.22	22.28	22.25
		75	0	22.34	22.12	22.30
15M	16QAM	1	0	22.31	22.13	22.19
		1	37	22.23	22.14	22.21
		1	74	21.80	21.77	21.83
		36	0	21.28	21.25	21.30
		36	19	21.28	21.02	21.23
		36	39	21.15	21.15	21.12
		75	0	21.19	21.15	21.17

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.33	23.13	23.25
		1	24	23.27	23.08	23.18
		1	49	23.21	22.96	23.17
		25	0	22.46	22.32	22.33
		25	12	22.47	22.41	22.47
		25	25	22.26	22.22	22.19
		50	0	22.34	22.12	22.25
10M	16QAM	1	0	22.28	22.17	22.25
		1	24	22.27	22.08	22.21
		1	49	21.83	21.80	21.74
		25	0	21.32	21.19	21.25
		25	12	21.29	21.09	21.21
		25	25	21.18	21.07	21.11
		50	0	21.19	21.17	21.21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.29	23.16	23.22
		1	12	23.25	23.13	23.20
		1	24	23.15	22.99	23.18
		12	0	22.42	22.29	22.39
		12	6	22.37	22.33	22.47
		12	13	22.26	22.21	22.19
		25	0	22.32	22.15	22.31
5M	16QAM	1	0	22.26	22.12	22.18
		1	12	22.25	22.09	22.21
		1	24	21.75	21.78	21.79
		12	0	21.37	21.18	21.34
		12	6	21.29	21.02	21.24
		12	13	21.21	21.10	21.14
		25	0	21.24	21.18	21.23

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.25	23.12	23.18
		1	7	23.19	23.08	23.15
		1	14	23.07	22.96	23.11
		8	0	22.33	22.25	22.30
		8	3	22.29	22.30	22.44
		8	7	22.22	22.20	22.12
		15	0	22.25	22.07	22.24
3M	16QAM	1	0	22.25	22.05	22.17
		1	7	22.18	22.03	22.16
		1	14	21.75	21.70	21.73
		8	0	21.37	21.11	21.31
		8	3	21.24	21.00	21.18
		8	7	21.13	21.09	21.09
		15	0	21.21	21.08	21.18
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.20	23.06	23.10
		1	2	23.14	23.04	23.06
		1	5	23.07	22.89	23.02
		3	0	22.31	22.21	22.24
		3	1	22.19	22.30	22.37
		3	3	22.16	22.19	22.03
		6	0	22.22	22.07	22.19
1.4M	16QAM	1	0	22.23	22.05	22.12
		1	2	22.08	21.97	22.10
		1	5	21.74	21.65	21.68
		3	0	21.30	21.02	21.24
		3	1	21.23	20.91	21.18
		3	3	21.13	21.00	21.05
		6	0	21.12	21.04	21.17

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.2 LTE Band 4

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	22.22	22.34	22.39
		1	50	22.15	22.23	22.27
		1	99	22.18	22.19	22.25
		50	0	21.06	21.15	21.19
		50	25	21.00	21.00	21.08
		50	50	20.99	20.99	21.05
		100	0	21.06	21.10	21.13
20M	16QAM	1	0	20.89	20.97	21.06
		1	50	20.88	20.97	20.98
		1	99	20.84	20.88	20.89
		50	0	20.25	20.25	20.35
		50	25	20.12	20.17	20.29
		50	50	20.15	20.24	20.24
		100	0	20.00	20.08	20.18
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	22.14	22.27	22.36
		1	37	22.10	22.21	22.25
		1	74	22.06	22.12	22.21
		36	0	20.97	21.10	21.18
		36	19	20.94	20.91	21.07
		36	39	20.90	20.91	20.95
		75	0	21.05	21.00	21.13
15M	16QAM	1	0	20.83	20.97	20.97
		1	37	20.79	20.89	20.89
		1	74	20.84	20.84	20.84
		36	0	20.22	20.16	20.27
		36	19	20.04	20.13	20.19
		36	39	20.08	20.15	20.23
		75	0	19.93	20.03	20.08

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	22.11	22.17	22.31
		1	24	22.01	22.20	22.23
		1	49	21.96	22.12	22.12
		25	0	20.96	21.09	21.15
		25	12	20.90	20.88	20.98
		25	25	20.87	20.88	20.91
		50	0	21.02	20.91	21.10
10M	16QAM	1	0	20.78	20.92	20.93
		1	24	20.74	20.82	20.87
		1	49	20.81	20.82	20.76
		25	0	20.22	20.16	20.17
		25	12	20.02	20.07	20.17
		25	25	20.03	20.09	20.14
		50	0	19.86	19.96	20.04
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	22.11	22.26	22.28
		1	12	22.01	22.20	22.23
		1	24	21.99	22.12	22.12
		12	0	20.87	21.09	21.17
		12	6	20.85	20.87	21.03
		12	13	20.90	20.91	20.85
		25	0	21.00	20.95	21.07
5M	16QAM	1	0	20.80	20.87	20.89
		1	12	20.71	20.81	20.83
		1	24	20.80	20.83	20.81
		12	0	20.17	20.16	20.17
		12	6	20.04	20.11	20.12
		12	13	20.00	20.10	20.16
		25	0	19.91	20.00	20.05

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	22.11	22.20	22.22
		1	7	22.01	22.10	22.21
		1	14	21.93	22.06	22.02
		8	0	20.77	20.99	21.11
		8	3	20.80	20.87	20.96
		8	7	20.89	20.89	20.78
		15	0	20.99	20.89	20.97
3M	16QAM	1	0	20.74	20.79	20.81
		1	7	20.71	20.72	20.82
		1	14	20.74	20.77	20.75
		8	0	20.08	20.15	20.15
		8	3	19.94	20.04	20.05
		8	7	19.90	20.08	20.13
		15	0	19.86	19.92	19.97
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	22.04	22.10	22.12
		1	2	22.01	22.08	22.17
		1	5	21.87	22.05	21.95
		3	0	20.70	20.91	21.01
		3	1	20.78	20.80	20.90
		3	3	20.82	20.83	20.72
		6	0	20.94	20.83	20.91
1.4M	16QAM	1	0	20.68	20.76	20.77
		1	2	20.63	20.71	20.78
		1	5	20.74	20.70	20.70
		3	0	20.08	20.09	20.11
		3	1	19.87	19.94	19.98
		3	3	19.84	20.04	20.08
		6	0	19.83	19.92	19.96



EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	23.82	23.94	23.99
		1	50	23.75	23.83	23.87
		1	99	23.78	23.79	23.85
		50	0	22.66	22.75	22.79
		50	25	22.60	22.60	22.68
		50	50	22.59	22.59	22.65
		100	0	22.66	22.70	22.73
20M	16QAM	1	0	22.49	22.57	22.66
		1	50	22.48	22.57	22.58
		1	99	22.44	22.48	22.49
		50	0	21.85	21.85	21.95
		50	25	21.72	21.77	21.89
		50	50	21.75	21.84	21.84
		100	0	21.60	21.68	21.78
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	23.74	23.87	23.96
		1	37	23.70	23.81	23.85
		1	74	23.66	23.72	23.81
		36	0	22.57	22.70	22.78
		36	19	22.54	22.51	22.67
		36	39	22.50	22.51	22.55
		75	0	22.65	22.60	22.73
15M	16QAM	1	0	22.43	22.57	22.57
		1	37	22.39	22.49	22.49
		1	74	22.44	22.44	22.44
		36	0	21.82	21.76	21.87
		36	19	21.64	21.73	21.79
		36	39	21.68	21.75	21.83
		75	0	21.53	21.63	21.68

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	23.71	23.77	23.91
		1	24	23.61	23.80	23.83
		1	49	23.56	23.72	23.72
		25	0	22.56	22.69	22.75
		25	12	22.50	22.48	22.58
		25	25	22.47	22.48	22.51
		50	0	22.62	22.51	22.70
10M	16QAM	1	0	22.38	22.52	22.53
		1	24	22.34	22.42	22.47
		1	49	22.41	22.42	22.36
		25	0	21.82	21.76	21.77
		25	12	21.62	21.67	21.77
		25	25	21.63	21.69	21.74
		50	0	21.46	21.56	21.64
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	23.71	23.86	23.88
		1	12	23.61	23.80	23.83
		1	24	23.59	23.72	23.72
		12	0	22.47	22.69	22.77
		12	6	22.45	22.47	22.63
		12	13	22.50	22.51	22.45
		25	0	22.60	22.55	22.67
5M	16QAM	1	0	22.40	22.47	22.49
		1	12	22.31	22.41	22.43
		1	24	22.40	22.43	22.41
		12	0	21.77	21.76	21.77
		12	6	21.64	21.71	21.72
		12	13	21.60	21.70	21.76
		25	0	21.51	21.60	21.65

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	23.71	23.80	23.82
		1	7	23.61	23.70	23.81
		1	14	23.53	23.66	23.62
		8	0	22.37	22.59	22.71
		8	3	22.40	22.47	22.56
		8	7	22.49	22.49	22.38
		15	0	22.59	22.49	22.57
3M	16QAM	1	0	22.34	22.39	22.41
		1	7	22.31	22.32	22.42
		1	14	22.34	22.37	22.35
		8	0	21.68	21.75	21.75
		8	3	21.54	21.64	21.65
		8	7	21.50	21.68	21.73
		15	0	21.46	21.52	21.57
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	23.64	23.70	23.72
		1	2	23.61	23.68	23.77
		1	5	23.47	23.65	23.55
		3	0	22.30	22.51	22.61
		3	1	22.38	22.40	22.50
		3	3	22.42	22.43	22.32
		6	0	22.54	22.43	22.51
1.4M	16QAM	1	0	22.28	22.36	22.37
		1	2	22.23	22.31	22.38
		1	5	22.34	22.30	22.30
		3	0	21.68	21.69	21.71
		3	1	21.47	21.54	21.58
		3	3	21.44	21.64	21.68
		6	0	21.43	21.52	21.56

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.3 LTE Band 5

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.35	22.45	22.48
		1	24	22.32	22.40	22.44
		1	49	22.25	22.33	22.35
		25	0	21.34	21.34	21.41
		25	12	21.29	21.35	21.38
		25	25	21.27	21.32	21.35
		50	0	21.23	21.28	21.33
10M	16QAM	1	0	21.10	21.13	21.21
		1	24	21.00	21.09	21.15
		1	49	20.85	20.88	20.92
		25	0	20.38	20.39	20.47
		25	12	20.42	20.44	20.44
		25	25	20.40	20.41	20.41
		50	0	20.23	20.25	20.33
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.25	22.38	22.46
		1	12	22.29	22.31	22.35
		1	24	22.24	22.33	22.34
		12	0	21.29	21.31	21.35
		12	6	21.28	21.28	21.31
		12	13	21.20	21.25	21.30
		25	0	21.13	21.24	21.32
5M	16QAM	1	0	21.04	21.06	21.14
		1	12	20.90	21.05	21.15
		1	24	20.82	20.84	20.90
		12	0	20.37	20.31	20.43
		12	6	20.33	20.35	20.38
		12	13	20.30	20.34	20.38
		25	0	20.18	20.25	20.27

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.15	22.37	22.43
		1	7	22.28	22.26	22.32
		1	14	22.16	22.24	22.25
		8	0	21.28	21.26	21.34
		8	3	21.24	21.28	21.26
		8	7	21.14	21.25	21.27
		15	0	21.07	21.23	21.27
3M	16QAM	1	0	20.94	21.00	21.12
		1	7	20.84	21.04	21.07
		1	14	20.75	20.84	20.86
		8	0	20.31	20.27	20.33
		8	3	20.33	20.33	20.28
		8	7	20.27	20.24	20.32
		15	0	20.18	20.23	20.25
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.05	22.35	22.33
		1	2	22.20	22.21	22.30
		1	5	22.07	22.18	22.15
		3	0	21.19	21.17	21.32
		3	1	21.14	21.18	21.23
		3	3	21.08	21.20	21.18
		6	0	21.00	21.17	21.25
1.4M	16QAM	1	0	20.86	20.97	21.09
		1	2	20.84	21.01	21.01
		1	5	20.68	20.82	20.82
		3	0	20.22	20.18	20.23
		3	1	20.32	20.27	20.19
		3	3	20.26	20.17	20.25
		6	0	20.09	20.15	20.20



ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	20.20	20.30	20.33
		1	24	20.17	20.25	20.29
		1	49	20.10	20.18	20.20
		25	0	19.19	19.19	19.26
		25	12	19.14	19.20	19.23
		25	25	19.12	19.17	19.20
		50	0	19.08	19.13	19.18
10M	16QAM	1	0	18.95	18.98	19.06
		1	24	18.85	18.94	19.00
		1	49	18.70	18.73	18.77
		25	0	18.23	18.24	18.32
		25	12	18.27	18.29	18.29
		25	25	18.25	18.26	18.26
		50	0	18.08	18.10	18.18
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	20.10	20.23	20.31
		1	12	20.14	20.16	20.20
		1	24	20.09	20.18	20.19
		12	0	19.14	19.16	19.20
		12	6	19.13	19.13	19.16
		12	13	19.05	19.10	19.15
		25	0	18.98	19.09	19.17
5M	16QAM	1	0	18.89	18.91	18.99
		1	12	18.75	18.90	19.00
		1	24	18.67	18.69	18.75
		12	0	18.22	18.16	18.28
		12	6	18.18	18.20	18.23
		12	13	18.15	18.19	18.23
		25	0	18.03	18.10	18.12

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	20.00	20.22	20.28
		1	7	20.13	20.11	20.17
		1	14	20.01	20.09	20.10
		8	0	19.13	19.11	19.19
		8	3	19.09	19.13	19.11
		8	7	18.99	19.10	19.12
		15	0	18.92	19.08	19.12
3M	16QAM	1	0	18.79	18.85	18.97
		1	7	18.69	18.89	18.92
		1	14	18.60	18.69	18.71
		8	0	18.16	18.12	18.18
		8	3	18.18	18.18	18.13
		8	7	18.12	18.09	18.17
		15	0	18.03	18.08	18.10
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	19.90	20.20	20.18
		1	2	20.05	20.06	20.15
		1	5	19.92	20.03	20.00
		3	0	19.04	19.02	19.17
		3	1	18.99	19.03	19.08
		3	3	18.93	19.05	19.03
		6	0	18.85	19.02	19.10
1.4M	16QAM	1	0	18.71	18.82	18.94
		1	2	18.69	18.86	18.86
		1	5	18.53	18.67	18.67
		3	0	18.07	18.03	18.08
		3	1	18.17	18.12	18.04
		3	3	18.11	18.02	18.10
		6	0	17.94	18.00	18.05

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.4 LTE Band 7

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	23.18	23.41	23.35
		1	50	23.15	23.35	23.25
		1	99	23.27	23.31	23.28
		50	0	22.29	22.33	22.30
		50	25	22.17	22.31	22.26
		50	50	22.12	22.25	22.20
		100	0	22.21	22.28	22.23
20M	16QAM	1	0	21.93	22.12	22.03
		1	50	22.03	22.08	22.07
		1	99	21.73	21.85	21.83
		50	0	21.20	21.24	21.22
		50	25	21.11	21.21	21.16
		50	50	21.02	21.15	21.09
		100	0	21.10	21.23	21.13
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	23.19	23.35	23.27
		1	37	23.15	23.28	23.22
		1	74	23.08	23.22	23.16
		36	0	22.26	22.32	22.27
		36	19	22.08	22.25	22.21
		36	39	22.05	22.20	22.17
		75	0	22.15	22.18	22.15
15M	16QAM	1	0	21.92	22.05	22.01
		1	37	21.93	22.00	21.98
		1	74	21.63	21.76	21.83
		36	0	21.20	21.23	21.20
		36	19	21.09	21.21	21.10
		36	39	20.96	21.10	21.03
		75	0	21.07	21.16	21.08

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	23.16	23.32	23.30
		1	24	23.10	23.25	23.19
		1	49	23.07	23.28	23.20
		25	0	22.20	22.29	22.29
		25	12	22.16	22.21	22.23
		25	25	22.08	22.16	22.20
		50	0	22.16	22.20	22.23
10M	16QAM	1	0	21.90	22.07	21.94
		1	24	22.01	22.00	22.01
		1	49	21.73	21.76	21.76
		25	0	21.19	21.20	21.20
		25	12	21.09	21.11	21.06
		25	25	20.95	21.15	21.08
		50	0	21.10	21.14	21.06
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	23.13	23.26	23.22
		1	12	23.04	23.16	23.19
		1	24	23.02	23.26	23.12
		12	0	22.11	22.26	22.29
		12	6	22.14	22.13	22.15
		12	13	22.08	22.16	22.12
		25	0	22.12	22.18	22.22
5M	16QAM	1	0	21.88	22.01	21.90
		1	12	21.92	21.91	21.99
		1	24	21.64	21.70	21.69
		12	0	21.19	21.20	21.20
		12	6	21.07	21.04	21.00
		12	13	20.93	21.13	20.98
		25	0	21.05	21.11	20.99



EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20850	21100	21350
		Frequency (MHz)		2510	2535	2560
20M	QPSK	1	0	26.78	27.01	26.95
		1	50	26.75	26.95	26.85
		1	99	26.87	26.91	26.88
		50	0	25.89	25.93	25.90
		50	25	25.77	25.91	25.86
		50	50	25.72	25.85	25.80
		100	0	25.81	25.88	25.83
20M	16QAM	1	0	25.53	25.72	25.63
		1	50	25.63	25.68	25.67
		1	99	25.33	25.45	25.43
		50	0	24.80	24.84	24.82
		50	25	24.71	24.81	24.76
		50	50	24.62	24.75	24.69
		100	0	24.70	24.83	24.73
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20825	21100	21375
		Frequency (MHz)		2507.5	2535	2562.5
15M	QPSK	1	0	26.79	26.95	26.87
		1	37	26.75	26.88	26.82
		1	74	26.68	26.82	26.76
		36	0	25.86	25.92	25.87
		36	19	25.68	25.85	25.81
		36	39	25.65	25.80	25.77
		75	0	25.75	25.78	25.75
15M	16QAM	1	0	25.52	25.65	25.61
		1	37	25.53	25.60	25.58
		1	74	25.23	25.36	25.43
		36	0	24.80	24.83	24.80
		36	19	24.69	24.81	24.70
		36	39	24.56	24.70	24.63
		75	0	24.67	24.76	24.68

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	26.76	26.92	26.90
		1	24	26.70	26.85	26.79
		1	49	26.67	26.88	26.80
		25	0	25.80	25.89	25.89
		25	12	25.76	25.81	25.83
		25	25	25.68	25.76	25.80
		50	0	25.76	25.80	25.83
10M	16QAM	1	0	25.50	25.67	25.54
		1	24	25.61	25.60	25.61
		1	49	25.33	25.36	25.36
		25	0	24.79	24.80	24.80
		25	12	24.69	24.71	24.66
		25	25	24.55	24.75	24.68
		50	0	24.70	24.74	24.66
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20775	21100	21425
		Frequency (MHz)		2502.5	2535	2567.5
5M	QPSK	1	0	26.73	26.86	26.82
		1	12	26.64	26.76	26.79
		1	24	26.62	26.86	26.72
		12	0	25.71	25.86	25.89
		12	6	25.74	25.73	25.75
		12	13	25.68	25.76	25.72
		25	0	25.72	25.78	25.82
5M	16QAM	1	0	25.48	25.61	25.50
		1	12	25.52	25.51	25.59
		1	24	25.24	25.30	25.29
		12	0	24.79	24.80	24.80
		12	6	24.67	24.64	24.60
		12	13	24.53	24.73	24.58
		25	0	24.65	24.71	24.59

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.5 LTE Band 12

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	22.26	22.13	22.37
		1	24	22.24	22.10	22.34
		1	49	22.20	22.07	22.31
		25	0	21.13	21.00	21.23
		25	12	21.15	21.01	21.21
		25	25	21.17	21.09	21.19
		50	0	21.11	21.07	21.14
10M	16QAM	1	0	20.96	20.88	21.02
		1	24	20.86	20.79	20.91
		1	49	20.83	20.74	20.87
		25	0	20.32	20.24	20.39
		25	12	20.20	20.08	20.29
		25	25	20.08	20.01	20.16
		50	0	20.21	20.13	20.21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	22.25	22.03	22.32
		1	12	22.16	22.09	22.27
		1	24	22.12	22.07	22.27
		12	0	21.11	20.97	21.14
		12	6	21.11	21.00	21.12
		12	13	21.16	21.06	21.16
		25	0	21.03	21.07	21.04
5M	16QAM	1	0	20.96	20.81	20.98
		1	12	20.86	20.76	20.81
		1	24	20.77	20.69	20.84
		12	0	20.24	20.17	20.33
		12	6	20.20	20.01	20.24
		12	13	20.08	19.93	20.10
		25	0	20.05	20.03	20.11

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	22.16	22.02	22.27
		1	7	22.14	22.03	22.26
		1	14	22.11	22.03	22.20
		8	0	21.05	20.93	21.07
		8	3	21.06	20.98	21.10
		8	7	21.10	20.97	21.16
		15	0	20.99	20.99	20.95
3M	16QAM	1	0	20.93	20.76	20.91
		1	7	20.80	20.75	20.77
		1	14	20.70	20.69	20.78
		8	0	20.21	20.15	20.25
		8	3	20.18	19.99	20.24
		8	7	20.05	19.93	20.08
		15	0	20.02	19.94	20.06
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	22.15	21.99	22.20
		1	2	22.14	22.01	22.19
		1	5	22.01	21.99	22.18
		3	0	21.03	20.93	20.97
		3	1	21.05	20.98	21.02
		3	3	21.07	20.96	21.10
		6	0	20.90	20.92	20.88
1.4M	16QAM	1	0	20.89	20.76	20.81
		1	2	20.78	20.73	20.67
		1	5	20.67	20.61	20.75
		3	0	20.18	20.07	20.24
		3	1	20.12	19.90	20.22
		3	3	20.04	19.84	20.03
		6	0	20.02	19.92	19.99

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	22.91	22.78	23.02
		1	24	22.89	22.75	22.99
		1	49	22.85	22.72	22.96
		25	0	21.78	21.65	21.88
		25	12	21.80	21.66	21.86
		25	25	21.82	21.74	21.84
		50	0	21.76	21.72	21.79
10M	16QAM	1	0	21.61	21.53	21.67
		1	24	21.51	21.44	21.56
		1	49	21.48	21.39	21.52
		25	0	20.97	20.89	21.04
		25	12	20.85	20.73	20.94
		25	25	20.73	20.66	20.81
		50	0	20.86	20.78	20.86
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	22.90	22.68	22.97
		1	12	22.81	22.74	22.92
		1	24	22.77	22.72	22.92
		12	0	21.76	21.62	21.79
		12	6	21.76	21.65	21.77
		12	13	21.81	21.71	21.81
		25	0	21.68	21.72	21.69
5M	16QAM	1	0	21.61	21.46	21.63
		1	12	21.51	21.41	21.46
		1	24	21.42	21.34	21.49
		12	0	20.89	20.82	20.98
		12	6	20.85	20.66	20.89
		12	13	20.73	20.58	20.75
		25	0	20.70	20.68	20.76

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	22.81	22.67	22.92
		1	7	22.79	22.68	22.91
		1	14	22.76	22.68	22.85
		8	0	21.70	21.58	21.72
		8	3	21.71	21.63	21.75
		8	7	21.75	21.62	21.81
		15	0	21.64	21.64	21.60
3M	16QAM	1	0	21.58	21.41	21.56
		1	7	21.45	21.40	21.42
		1	14	21.35	21.34	21.43
		8	0	20.86	20.80	20.90
		8	3	20.83	20.64	20.89
		8	7	20.70	20.58	20.73
		15	0	20.67	20.59	20.71
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	22.80	22.64	22.85
		1	2	22.79	22.66	22.84
		1	5	22.66	22.64	22.83
		3	0	21.68	21.58	21.62
		3	1	21.70	21.63	21.67
		3	3	21.72	21.61	21.75
		6	0	21.55	21.57	21.53
1.4M	16QAM	1	0	21.54	21.41	21.46
		1	2	21.43	21.38	21.32
		1	5	21.32	21.26	21.40
		3	0	20.83	20.72	20.89
		3	1	20.77	20.55	20.87
		3	3	20.69	20.49	20.68
		6	0	20.67	20.57	20.64

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.6 LTE Band 13

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		23230		
		Frequency (MHz)		782		
10M	QPSK	1	0	22.95		
		1	24	22.92		
		1	49	22.82		
		25	0	21.83		
		25	12	21.75		
		25	25	21.65		
		50	0	21.73		
10M	16QAM	1	0	21.64		
		1	24	21.61		
		1	49	21.58		
		25	0	20.83		
		25	12	20.80		
		25	25	20.73		
		50	0	20.76		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	22.77	22.86	22.87
		1	12	22.75	22.90	22.80
		1	24	22.75	22.76	22.79
		12	0	21.69	21.75	21.79
		12	6	21.62	21.69	21.57
		12	13	21.50	21.63	21.51
		25	0	21.56	21.72	21.70
5M	16QAM	1	0	21.51	21.55	21.63
		1	12	21.48	21.58	21.54
		1	24	21.44	21.53	21.49
		12	0	20.60	20.82	20.77
		12	6	20.64	20.73	20.69
		12	13	20.59	20.65	20.62
		25	0	20.61	20.69	20.65

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		23230		
		Frequency (MHz)		782		
10M	QPSK	1	0	18.30		
		1	24	18.27		
		1	49	18.17		
		25	0	17.18		
		25	12	17.10		
		25	25	17.00		
		50	0	17.08		
10M	16QAM	1	0	16.99		
		1	24	16.96		
		1	49	16.93		
		25	0	16.18		
		25	12	16.15		
		25	25	16.08		
		50	0	16.11		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23205	23230	23255
		Frequency (MHz)		779.5	782	784.5
5M	QPSK	1	0	18.12	18.21	18.22
		1	12	18.10	18.25	18.15
		1	24	18.10	18.11	18.14
		12	0	17.04	17.10	17.14
		12	6	16.97	17.04	16.92
		12	13	16.85	16.98	16.86
		25	0	16.91	17.07	17.05
5M	16QAM	1	0	16.86	16.90	16.98
		1	12	16.83	16.93	16.89
		1	24	16.79	16.88	16.84
		12	0	15.95	16.17	16.12
		12	6	15.99	16.08	16.04
		12	13	15.94	16.00	15.97
		25	0	15.96	16.04	16.00

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.7 LTE Band 14

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		23330		
		Frequency (MHz)		793		
10M	QPSK	1	0	22.47		
		1	24	22.45		
		1	49	22.38		
		25	0	21.49		
		25	12	21.46		
		25	25	21.25		
		50	0	21.31		
10M	16QAM	1	0	21.16		
		1	24	21.12		
		1	49	21.05		
		25	0	20.46		
		25	12	20.43		
		25	25	20.34		
		50	0	20.38		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	22.35	22.44	22.27
		1	12	22.31	22.42	22.23
		1	24	22.25	22.36	22.25
		12	0	21.31	21.41	21.29
		12	6	21.41	21.36	21.40
		12	13	21.19	21.18	21.13
		25	0	21.22	21.28	21.10
5M	16QAM	1	0	21.04	21.12	20.99
		1	12	21.04	21.05	20.97
		1	24	20.93	20.95	20.99
		12	0	20.39	20.37	20.41
		12	6	20.38	20.39	20.32
		12	13	20.26	20.30	20.16
		25	0	20.29	20.32	20.23

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		23330		
		Frequency (MHz)		793		
10M	QPSK	1	0	18.32		
		1	24	18.30		
		1	49	18.23		
		25	0	17.34		
		25	12	17.31		
		25	25	17.10		
		50	0	17.16		
10M	16QAM	1	0	17.01		
		1	24	16.97		
		1	49	16.90		
		25	0	16.31		
		25	12	16.28		
		25	25	16.19		
		50	0	16.23		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	18.20	18.29	18.12
		1	12	18.16	18.27	18.08
		1	24	18.10	18.21	18.10
		12	0	17.16	17.26	17.14
		12	6	17.26	17.21	17.25
		12	13	17.04	17.03	16.98
		25	0	17.07	17.13	16.95
5M	16QAM	1	0	16.89	16.97	16.84
		1	12	16.89	16.90	16.82
		1	24	16.78	16.80	16.84
		12	0	16.24	16.22	16.26
		12	6	16.23	16.24	16.17
		12	13	16.11	16.15	16.01
		25	0	16.14	16.17	16.08

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.8 LTE Band 17

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	22.77	22.68	22.72
		1	24	22.62	22.47	22.54
		1	49	22.55	22.45	22.47
		25	0	21.76	21.70	21.73
		25	12	21.72	21.67	21.68
		25	25	21.68	21.55	21.62
		50	0	21.66	21.49	21.58
10M	16QAM	1	0	21.53	21.43	21.44
		1	24	21.49	21.47	21.48
		1	49	21.42	21.26	21.32
		25	0	20.74	20.58	20.66
		25	12	20.71	20.67	20.69
		25	25	20.64	20.57	20.60
		50	0	20.69	20.58	20.63
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	22.72	22.61	22.70
		1	12	22.61	22.39	22.51
		1	24	22.45	22.37	22.46
		12	0	21.68	21.69	21.70
		12	6	21.72	21.66	21.61
		12	13	21.68	21.50	21.62
		25	0	21.62	21.44	21.56
5M	16QAM	1	0	21.52	21.39	21.38
		1	12	21.41	21.41	21.44
		1	24	21.32	21.22	21.30
		12	0	20.73	20.51	20.64
		12	6	20.66	20.61	20.59
		12	13	20.54	20.53	20.58
		25	0	20.68	20.57	20.60

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23780	23790	23800
		Frequency (MHz)		709	710	711
10M	QPSK	1	0	23.42	23.33	23.37
		1	24	23.27	23.12	23.19
		1	49	23.20	23.10	23.12
		25	0	22.41	22.35	22.38
		25	12	22.37	22.32	22.33
		25	25	22.33	22.20	22.27
		50	0	22.31	22.14	22.23
10M	16QAM	1	0	22.18	22.08	22.09
		1	24	22.14	22.12	22.13
		1	49	22.07	21.91	21.97
		25	0	21.39	21.23	21.31
		25	12	21.36	21.32	21.34
		25	25	21.29	21.22	21.25
		50	0	21.34	21.23	21.28
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23755	23790	23825
		Frequency (MHz)		706.5	710	713.5
5M	QPSK	1	0	23.37	23.26	23.35
		1	12	23.26	23.04	23.16
		1	24	23.10	23.02	23.11
		12	0	22.33	22.34	22.35
		12	6	22.37	22.31	22.26
		12	13	22.33	22.15	22.27
		25	0	22.27	22.09	22.21
5M	16QAM	1	0	22.17	22.04	22.03
		1	12	22.06	22.06	22.09
		1	24	21.97	21.87	21.95
		12	0	21.38	21.16	21.29
		12	6	21.31	21.26	21.24
		12	13	21.19	21.18	21.23
		25	0	21.33	21.22	21.25

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.9 LTE Band 25

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	22.85	22.77	22.83
		1	50	22.77	22.64	22.72
		1	99	22.68	22.54	22.61
		50	0	21.88	21.78	21.85
		50	25	21.73	21.68	21.71
		50	50	21.70	21.54	21.63
		100	0	21.76	21.62	21.71
20M	16QAM	1	0	21.43	21.34	21.40
		1	50	21.29	21.29	21.29
		1	99	21.16	21.10	21.13
		50	0	20.86	20.75	20.84
		50	25	20.79	20.67	20.74
		50	50	20.73	20.57	20.65
		100	0	20.75	20.60	20.68
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.81	22.67	22.76
		1	37	22.68	22.55	22.68
		1	74	22.62	22.47	22.61
		36	0	21.85	21.82	21.78
		36	19	21.67	21.66	21.70
		36	39	21.65	21.46	21.63
		75	0	21.68	21.58	21.62
15M	16QAM	1	0	21.38	21.26	21.36
		1	37	21.24	21.28	21.22
		1	74	21.13	21.03	21.07
		36	0	20.81	20.70	20.74
		36	19	20.71	20.64	20.71
		36	39	20.63	20.55	20.55
		75	0	20.72	20.57	20.67

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	22.76	22.62	22.70
		1	24	22.66	22.54	22.64
		1	49	22.52	22.45	22.57
		25	0	21.83	21.81	21.72
		25	12	21.67	21.56	21.63
		25	25	21.61	21.41	21.57
		50	0	21.64	21.52	21.53
10M	16QAM	1	0	21.36	21.22	21.29
		1	24	21.23	21.23	21.16
		1	49	21.04	20.97	21.03
		25	0	20.71	20.66	20.69
		25	12	20.68	20.56	20.71
		25	25	20.57	20.49	20.47
		50	0	20.71	20.55	20.63
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.73	22.59	22.67
		1	12	22.57	22.47	22.54
		1	24	22.43	22.42	22.52
		12	0	21.76	21.75	21.63
		12	6	21.66	21.53	21.59
		12	13	21.58	21.34	21.51
		25	0	21.54	21.52	21.48
5M	16QAM	1	0	21.33	21.15	21.29
		1	12	21.20	21.15	21.16
		1	24	21.00	20.90	20.93
		12	0	20.70	20.63	20.64
		12	6	20.66	20.48	20.69
		12	13	20.56	20.45	20.37
		25	0	20.62	20.54	20.57

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.70	22.58	22.66
		1	7	22.48	22.38	22.51
		1	14	22.34	22.36	22.45
		8	0	21.66	21.74	21.57
		8	3	21.58	21.44	21.50
		8	7	21.57	21.26	21.45
		15	0	21.44	21.46	21.40
3M	16QAM	1	0	21.23	21.09	21.27
		1	7	21.17	21.11	21.07
		1	14	20.93	20.89	20.93
		8	0	20.64	20.63	20.59
		8	3	20.66	20.46	20.63
		8	7	20.54	20.37	20.32
		15	0	20.62	20.44	20.52
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	22.61	22.51	22.61
		1	2	22.41	22.31	22.43
		1	5	22.28	22.36	22.35
		3	0	21.57	21.72	21.47
		3	1	21.57	21.40	21.45
		3	3	21.55	21.22	21.42
		6	0	21.44	21.40	21.38
1.4M	16QAM	1	0	21.21	21.05	21.23
		1	2	21.13	21.07	20.98
		1	5	20.83	20.84	20.87
		3	0	20.56	20.60	20.51
		3	1	20.65	20.36	20.59
		3	3	20.44	20.37	20.32
		6	0	20.58	20.44	20.50

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	23.85	23.77	23.83
		1	50	23.77	23.64	23.72
		1	99	23.68	23.54	23.61
		50	0	22.88	22.78	22.85
		50	25	22.73	22.68	22.71
		50	50	22.70	22.54	22.63
		100	0	22.76	22.62	22.71
20M	16QAM	1	0	22.43	22.34	22.40
		1	50	22.29	22.29	22.29
		1	99	22.16	22.10	22.13
		50	0	21.86	21.75	21.84
		50	25	21.79	21.67	21.74
		50	50	21.73	21.57	21.65
		100	0	21.75	21.60	21.68
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	23.81	23.67	23.76
		1	37	23.68	23.55	23.68
		1	74	23.62	23.47	23.61
		36	0	22.85	22.82	22.78
		36	19	22.67	22.66	22.70
		36	39	22.65	22.46	22.63
		75	0	22.68	22.58	22.62
15M	16QAM	1	0	22.38	22.26	22.36
		1	37	22.24	22.28	22.22
		1	74	22.13	22.03	22.07
		36	0	21.81	21.70	21.74
		36	19	21.71	21.64	21.71
		36	39	21.63	21.55	21.55
		75	0	21.72	21.57	21.67

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	23.76	23.62	23.70
		1	24	23.66	23.54	23.64
		1	49	23.52	23.45	23.57
		25	0	22.83	22.81	22.72
		25	12	22.67	22.56	22.63
		25	25	22.61	22.41	22.57
		50	0	22.64	22.52	22.53
10M	16QAM	1	0	22.36	22.22	22.29
		1	24	22.23	22.23	22.16
		1	49	22.04	21.97	22.03
		25	0	21.71	21.66	21.69
		25	12	21.68	21.56	21.71
		25	25	21.57	21.49	21.47
		50	0	21.71	21.55	21.63
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	23.73	23.59	23.67
		1	12	23.57	23.47	23.54
		1	24	23.43	23.42	23.52
		12	0	22.76	22.75	22.63
		12	6	22.66	22.53	22.59
		12	13	22.58	22.34	22.51
		25	0	22.54	22.52	22.48
5M	16QAM	1	0	22.33	22.15	22.29
		1	12	22.20	22.15	22.16
		1	24	22.00	21.90	21.93
		12	0	21.70	21.63	21.64
		12	6	21.66	21.48	21.69
		12	13	21.56	21.45	21.37
		25	0	21.62	21.54	21.57

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	23.70	23.58	23.66
		1	7	23.48	23.38	23.51
		1	14	23.34	23.36	23.45
		8	0	22.66	22.74	22.57
		8	3	22.58	22.44	22.50
		8	7	22.57	22.26	22.45
		15	0	22.44	22.46	22.40
3M	16QAM	1	0	22.23	22.09	22.27
		1	7	22.17	22.11	22.07
		1	14	21.93	21.89	21.93
		8	0	21.64	21.63	21.59
		8	3	21.66	21.46	21.63
		8	7	21.54	21.37	21.32
		15	0	21.62	21.44	21.52
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	23.61	23.51	23.61
		1	2	23.41	23.31	23.43
		1	5	23.28	23.36	23.35
		3	0	22.57	22.72	22.47
		3	1	22.57	22.40	22.45
		3	3	22.55	22.22	22.42
		6	0	22.44	22.40	22.38
1.4M	16QAM	1	0	22.21	22.05	22.23
		1	2	22.13	22.07	21.98
		1	5	21.83	21.84	21.87
		3	0	21.56	21.60	21.51
		3	1	21.65	21.36	21.59
		3	3	21.44	21.37	21.32
		6	0	21.58	21.44	21.50

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.10 LTE Band 26 (Part 22)

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	22.77	22.68	22.86
		1	37	22.73	22.71	22.83
		1	74	22.69	22.67	22.78
		36	0	21.66	21.59	21.73
		36	19	21.66	21.57	21.69
		36	39	21.55	21.52	21.62
		75	0	21.58	21.57	21.67
15M	16QAM	1	0	21.34	21.28	21.35
		1	37	21.47	21.47	21.55
		1	74	21.32	21.30	21.34
		36	0	20.65	20.59	20.66
		36	19	20.67	20.58	20.77
		36	39	20.64	20.60	20.71
		75	0	20.58	20.52	20.68
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.70	22.54	22.83
		1	24	22.72	22.61	22.81
		1	49	22.58	22.55	22.78
		25	0	21.66	21.59	21.63
		25	12	21.63	21.53	21.63
		25	25	21.50	21.44	21.58
		50	0	21.46	21.49	21.62
10M	16QAM	1	0	21.27	21.13	21.26
		1	24	21.41	21.39	21.51
		1	49	21.29	21.21	21.29
		25	0	20.58	20.58	20.59
		25	12	20.59	20.52	20.70
		25	25	20.55	20.49	20.62
		50	0	20.45	20.52	20.61

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	22.60	22.53	22.79
		1	12	22.62	22.56	22.73
		1	24	22.50	22.42	22.71
		12	0	21.54	21.44	21.63
		12	6	21.62	21.43	21.60
		12	13	21.41	21.35	21.52
		25	0	21.44	21.47	21.61
5M	16QAM	1	0	21.19	21.08	21.26
		1	12	21.26	21.35	21.52
		1	24	21.17	21.17	21.29
		12	0	20.48	20.56	20.58
		12	6	20.49	20.47	20.70
		12	13	20.50	20.45	20.71
		25	0	20.37	20.39	20.67
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	22.45	22.74	22.74
		1	7	22.49	22.71	22.72
		1	14	22.55	22.75	22.67
		8	0	21.46	21.49	21.58
		8	3	21.47	21.56	21.51
		8	7	21.36	21.54	21.48
		15	0	21.41	21.49	21.61
3M	16QAM	1	0	21.13	21.26	21.17
		1	7	21.24	21.40	21.51
		1	14	21.08	21.14	21.23
		8	0	20.53	20.48	20.58
		8	3	20.40	20.66	20.70
		8	7	20.44	20.62	20.63
		15	0	20.42	20.58	20.61



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	22.47	22.70	22.70
		1	2	22.51	22.70	22.67
		1	5	22.52	22.77	22.64
		3	0	22.56	22.52	21.63
		3	1	22.48	22.58	21.56
		3	3	22.35	22.45	21.49
		6	0	21.43	21.55	21.56
1.4M	16QAM	1	0	21.11	21.12	21.20
		1	2	21.39	21.41	21.48
		1	5	21.20	21.14	21.25
		3	0	21.55	21.51	20.51
		3	1	21.40	21.64	20.61
		3	3	21.37	21.58	20.61
		6	0	20.51	20.52	20.57



ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	20.62	20.53	20.71
		1	37	20.58	20.56	20.68
		1	74	20.54	20.52	20.63
		36	0	19.51	19.44	19.58
		36	19	19.51	19.42	19.54
		36	39	19.40	19.37	19.47
		75	0	19.43	19.42	19.52
15M	16QAM	1	0	19.19	19.13	19.20
		1	37	19.32	19.32	19.40
		1	74	19.17	19.15	19.19
		36	0	18.50	18.44	18.51
		36	19	18.52	18.43	18.62
		36	39	18.49	18.45	18.56
		75	0	18.43	18.37	18.53
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	20.55	20.39	20.68
		1	24	20.57	20.46	20.66
		1	49	20.43	20.40	20.63
		25	0	19.51	19.44	19.48
		25	12	19.48	19.38	19.48
		25	25	19.35	19.29	19.43
		50	0	19.31	19.34	19.47
10M	16QAM	1	0	19.12	18.98	19.11
		1	24	19.26	19.24	19.36
		1	49	19.14	19.06	19.14
		25	0	18.43	18.43	18.44
		25	12	18.44	18.37	18.55
		25	25	18.40	18.34	18.47
		50	0	18.30	18.37	18.46

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	20.45	20.38	20.64
		1	12	20.47	20.41	20.58
		1	24	20.35	20.27	20.56
		12	0	19.39	19.29	19.48
		12	6	19.47	19.28	19.45
		12	13	19.26	19.20	19.37
		25	0	19.29	19.32	19.46
5M	16QAM	1	0	19.04	18.93	19.11
		1	12	19.11	19.20	19.37
		1	24	19.02	19.02	19.14
		12	0	18.33	18.41	18.43
		12	6	18.34	18.32	18.55
		12	13	18.35	18.30	18.56
		25	0	18.22	18.24	18.52
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	20.30	20.59	20.59
		1	7	20.34	20.56	20.57
		1	14	20.40	20.60	20.52
		8	0	19.31	19.34	19.43
		8	3	19.32	19.41	19.36
		8	7	19.21	19.39	19.33
		15	0	19.26	19.34	19.46
3M	16QAM	1	0	18.98	19.11	19.02
		1	7	19.09	19.25	19.36
		1	14	18.93	18.99	19.08
		8	0	18.38	18.33	18.43
		8	3	18.25	18.51	18.55
		8	7	18.29	18.47	18.48
		15	0	18.27	18.43	18.46

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	20.32	20.55	20.55
		1	2	20.36	20.55	20.52
		1	5	20.37	20.62	20.49
		3	0	20.41	20.37	19.48
		3	1	20.33	20.43	19.41
		3	3	20.20	20.30	19.34
		6	0	19.28	19.40	19.41
1.4M	16QAM	1	0	18.96	18.97	19.05
		1	2	19.24	19.26	19.33
		1	5	19.05	18.99	19.10
		3	0	19.40	19.36	18.36
		3	1	19.25	19.49	18.46
		3	3	19.22	19.43	18.46
		6	0	18.36	18.37	18.42

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.11 LTE Band 26 (Part 90)

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		26740		
		Frequency (MHz)		819		
10M	QPSK	1	0	22.61		
		1	24	22.62		
		1	49	22.60		
		25	0	21.55		
		25	12	21.58		
		25	25	21.48		
		50	0	21.49		
10M	16QAM	1	0	21.27		
		1	24	21.36		
		1	49	21.28		
		25	0	20.62		
		25	12	20.51		
		25	25	20.56		
		50	0	20.40		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	22.60	22.61	22.65
		1	12	22.60	22.62	22.63
		1	24	22.63	22.60	22.68
		12	0	21.59	21.55	21.63
		12	6	21.59	21.58	21.63
		12	13	21.41	21.48	21.48
		25	0	21.44	21.49	21.52
5M	16QAM	1	0	21.28	21.27	21.31
		1	12	21.33	21.36	21.37
		1	24	21.20	21.28	21.28
		12	0	20.62	20.62	20.65
		12	6	20.57	20.51	20.59
		12	13	20.53	20.56	20.56
		25	0	20.49	20.40	20.49

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	22.55	22.46	22.56
		1	7	22.54	22.49	22.62
		1	14	22.57	22.54	22.66
		8	0	21.52	21.45	21.49
		8	3	21.59	21.43	21.53
		8	7	21.37	21.33	21.34
		15	0	21.44	21.40	21.45
3M	16QAM	1	0	21.24	21.12	21.24
		1	7	21.30	21.28	21.33
		1	14	21.16	21.17	21.24
		8	0	20.53	20.50	20.62
		8	3	20.56	20.37	20.57
		8	7	20.48	20.56	20.52
		15	0	20.45	20.34	20.35
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	22.51	22.56	22.50
		1	2	22.50	22.62	22.57
		1	5	22.53	22.47	22.61
		3	0	21.53	22.55	22.51
		3	1	21.55	22.57	22.63
		3	3	21.35	22.43	22.44
		6	0	21.34	21.42	21.50
1.4M	16QAM	1	0	21.27	21.22	21.21
		1	2	21.25	21.26	21.25
		1	5	21.10	21.24	21.18
		3	0	20.53	21.61	21.64
		3	1	20.48	21.48	21.51
		3	3	20.48	21.53	21.46
		6	0	20.40	20.25	20.47

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid		
		Channel		26740		
		Frequency (MHz)		819		
10M	QPSK	1	0	20.46		
		1	24	20.47		
		1	49	20.45		
		25	0	19.40		
		25	12	19.43		
		25	25	19.33		
		50	0	19.34		
10M	16QAM	1	0	19.12		
		1	24	19.21		
		1	49	19.13		
		25	0	18.47		
		25	12	18.36		
		25	25	18.41		
		50	0	18.25		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	20.45	20.46	20.50
		1	12	20.45	20.47	20.48
		1	24	20.48	20.45	20.53
		12	0	19.44	19.40	19.48
		12	6	19.44	19.43	19.48
		12	13	19.26	19.33	19.33
		25	0	19.29	19.34	19.37
5M	16QAM	1	0	19.13	19.12	19.16
		1	12	19.18	19.21	19.22
		1	24	19.05	19.13	19.13
		12	0	18.47	18.47	18.50
		12	6	18.42	18.36	18.44
		12	13	18.38	18.41	18.41
		25	0	18.34	18.25	18.34

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	20.40	20.31	20.41
		1	7	20.39	20.34	20.47
		1	14	20.42	20.39	20.51
		8	0	19.37	19.30	19.34
		8	3	19.44	19.28	19.38
		8	7	19.22	19.18	19.19
		15	0	19.29	19.25	19.30
3M	16QAM	1	0	19.09	18.97	19.09
		1	7	19.15	19.13	19.18
		1	14	19.01	19.02	19.09
		8	0	18.38	18.35	18.47
		8	3	18.41	18.22	18.42
		8	7	18.33	18.41	18.37
		15	0	18.30	18.19	18.20
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	20.36	20.41	20.35
		1	2	20.35	20.47	20.42
		1	5	20.38	20.32	20.46
		3	0	19.38	20.40	20.36
		3	1	19.40	20.42	20.48
		3	3	19.20	20.28	20.29
		6	0	19.19	19.27	19.35
1.4M	16QAM	1	0	19.12	19.07	19.06
		1	2	19.10	19.11	19.10
		1	5	18.95	19.09	19.03
		3	0	18.38	19.46	19.49
		3	1	18.33	19.33	19.36
		3	3	18.33	19.38	19.31
		6	0	18.25	18.10	18.32

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.1.12 LTE Band 41

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	21.87	21.77	22.48
		1	50	21.83	21.68	22.39
		1	99	21.60	21.51	22.14
		50	0	20.86	20.71	21.41
		50	25	20.71	20.63	21.28
		50	50	20.70	20.48	21.23
		100	0	20.70	20.56	21.20
20M	16QAM	1	0	21.00	20.82	21.17
		1	50	20.86	20.66	20.90
		1	99	20.57	20.44	20.84
		50	0	19.88	19.74	20.26
		50	25	19.77	19.59	20.23
		50	50	19.71	19.56	20.12
		100	0	19.72	19.53	20.21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	21.84	21.74	22.44
		1	37	21.79	21.67	22.34
		1	74	21.55	21.51	22.06
		36	0	20.78	20.69	21.32
		36	19	20.71	20.56	21.27
		36	39	20.70	20.45	21.20
		75	0	20.69	20.52	21.17
15M	16QAM	1	0	20.77	20.77	21.43
		1	37	20.81	20.68	21.30
		1	74	20.57	20.51	21.04
		36	0	19.82	19.63	20.37
		36	19	19.65	19.60	20.23
		36	39	19.62	19.43	20.16
		75	0	19.64	19.50	20.17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	21.81	21.70	22.40
		1	24	21.72	21.64	22.27
		1	49	21.53	21.49	21.99
		25	0	20.69	20.65	21.28
		25	12	20.70	20.56	21.27
		25	25	20.68	20.43	21.19
		50	0	20.62	20.49	21.09
10M	16QAM	1	0	20.80	20.68	21.41
		1	24	20.72	20.58	21.33
		1	49	20.49	20.50	20.96
		25	0	19.74	19.62	20.26
		25	12	19.65	19.52	20.19
		25	25	19.66	19.35	20.16
		50	0	19.68	19.43	20.17
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	21.78	21.60	22.32
		1	12	21.62	21.59	22.26
		1	24	21.49	21.45	21.90
		12	0	20.69	20.56	21.28
		12	6	20.68	20.52	21.21
		12	13	20.58	20.33	21.09
		25	0	20.61	20.48	21.09
5M	16QAM	1	0	20.77	20.63	21.30
		1	12	20.67	20.54	21.20
		1	24	20.52	20.45	20.90
		12	0	19.69	19.57	20.18
		12	6	19.61	19.50	20.27
		12	13	19.55	19.35	20.10
		25	0	19.56	19.40	20.16

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	25.47	25.37	26.08
		1	50	25.43	25.28	25.99
		1	99	25.20	25.11	25.74
		50	0	24.46	24.31	25.01
		50	25	24.31	24.23	24.88
		50	50	24.30	24.08	24.83
		100	0	24.30	24.16	24.80
20M	16QAM	1	0	24.60	24.42	24.77
		1	50	24.46	24.26	24.50
		1	99	24.17	24.04	24.44
		50	0	23.48	23.34	23.86
		50	25	23.37	23.19	23.83
		50	50	23.31	23.16	23.72
		100	0	23.32	23.13	23.81
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	25.44	25.34	26.04
		1	37	25.39	25.27	25.94
		1	74	25.15	25.11	25.66
		36	0	24.38	24.29	24.92
		36	19	24.31	24.16	24.87
		36	39	24.30	24.05	24.80
		75	0	24.29	24.12	24.77
15M	16QAM	1	0	24.37	24.37	25.03
		1	37	24.41	24.28	24.90
		1	74	24.17	24.11	24.64
		36	0	23.42	23.23	23.97
		36	19	23.25	23.20	23.83
		36	39	23.22	23.03	23.76
		75	0	23.24	23.10	23.77

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	25.41	25.30	26.00
		1	24	25.32	25.24	25.87
		1	49	25.13	25.09	25.59
		25	0	24.29	24.25	24.88
		25	12	24.30	24.16	24.87
		25	25	24.28	24.03	24.79
		50	0	24.22	24.09	24.69
10M	16QAM	1	0	24.40	24.28	25.01
		1	24	24.32	24.18	24.93
		1	49	24.09	24.10	24.56
		25	0	23.34	23.22	23.86
		25	12	23.25	23.12	23.79
		25	25	23.26	22.95	23.76
		50	0	23.28	23.03	23.77
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	25.38	25.20	25.92
		1	12	25.22	25.19	25.86
		1	24	25.09	25.05	25.50
		12	0	24.29	24.16	24.88
		12	6	24.28	24.12	24.81
		12	13	24.18	23.93	24.69
		25	0	24.21	24.08	24.69
5M	16QAM	1	0	24.37	24.23	24.90
		1	12	24.27	24.14	24.80
		1	24	24.12	24.05	24.50
		12	0	23.29	23.17	23.78
		12	6	23.21	23.10	23.87
		12	13	23.15	22.95	23.70
		25	0	23.16	23.00	23.76

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.13 LTE Band 66

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	22.33	22.46	22.38
		1	50	22.30	22.44	22.35
		1	99	22.29	22.38	22.31
		50	0	21.41	21.47	21.43
		50	25	21.27	21.43	21.33
		50	50	21.27	21.40	21.33
		100	0	21.26	21.37	21.31
20M	16QAM	1	0	20.94	21.06	20.99
		1	50	20.88	21.03	20.93
		1	99	20.89	20.96	20.92
		50	0	20.48	20.48	20.48
		50	25	20.28	20.43	20.38
		50	50	20.36	20.38	20.37
		100	0	20.29	20.40	20.38
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	22.28	22.43	22.36
		1	37	22.21	22.36	22.31
		1	74	22.26	22.29	22.26
		36	0	21.35	21.47	21.36
		36	19	21.26	21.39	21.24
		36	39	21.22	21.30	21.26
		75	0	21.20	21.30	21.28
15M	16QAM	1	0	20.88	21.04	20.99
		1	37	20.87	20.99	20.83
		1	74	20.80	20.90	20.84
		36	0	20.41	20.38	20.38
		36	19	20.20	20.40	20.36
		36	39	20.27	20.31	20.36
		75	0	20.28	20.36	20.30

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.27	22.38	22.33
		1	24	22.25	22.35	22.30
		1	49	22.29	22.33	22.28
		25	0	21.39	21.47	21.40
		25	12	21.26	21.39	21.32
		25	25	21.27	21.32	21.26
		50	0	21.17	21.27	21.22
10M	16QAM	1	0	20.88	21.03	20.91
		1	24	20.79	20.97	20.91
		1	49	20.89	20.90	20.83
		25	0	20.42	20.38	20.44
		25	12	20.21	20.43	20.38
		25	25	20.30	20.28	20.30
		50	0	20.26	20.38	20.32
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	22.26	22.33	22.29
		1	12	22.24	22.27	22.24
		1	24	22.19	22.25	22.22
		12	0	21.34	21.41	21.33
		12	6	21.23	21.34	21.22
		12	13	21.18	21.31	21.23
		25	0	21.16	21.22	21.15
5M	16QAM	1	0	20.85	20.93	20.86
		1	12	20.79	20.93	20.85
		1	24	20.81	20.82	20.79
		12	0	20.38	20.31	20.37
		12	6	20.17	20.37	20.31
		12	13	20.21	20.20	20.26
		25	0	20.20	20.37	20.26

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	22.24	22.29	22.27
		1	7	22.19	22.27	22.20
		1	14	22.09	22.16	22.15
		8	0	21.30	21.40	21.24
		8	3	21.19	21.33	21.15
		8	7	21.14	21.28	21.15
		15	0	21.09	21.12	21.08
3M	16QAM	1	0	20.79	20.86	20.82
		1	7	20.73	20.90	20.81
		1	14	20.79	20.75	20.75
		8	0	20.34	20.30	20.33
		8	3	20.09	20.37	20.22
		8	7	20.15	20.20	20.22
		15	0	20.19	20.33	20.22
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	22.19	22.30	22.20
		1	2	22.15	22.17	22.18
		1	5	22.11	22.21	22.16
		3	0	21.34	21.41	21.27
		3	1	21.15	21.28	21.19
		3	3	21.18	21.29	21.18
		6	0	21.07	21.22	21.09
1.4M	16QAM	1	0	20.85	20.83	20.80
		1	2	20.74	20.86	20.75
		1	5	20.72	20.81	20.75
		3	0	20.31	20.28	20.34
		3	1	20.12	20.30	20.24
		3	3	20.16	20.11	20.19
		6	0	20.12	20.28	20.18



EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	23.93	24.06	23.98
		1	50	23.90	24.04	23.95
		1	99	23.89	23.98	23.91
		50	0	23.01	23.07	23.03
		50	25	22.87	23.03	22.93
		50	50	22.87	23.00	22.93
		100	0	22.86	22.97	22.91
20M	16QAM	1	0	22.54	22.66	22.59
		1	50	22.48	22.63	22.53
		1	99	22.49	22.56	22.52
		50	0	22.08	22.08	22.08
		50	25	21.88	22.03	21.98
		50	50	21.96	21.98	21.97
		100	0	21.89	22.00	21.98
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	23.88	24.03	23.96
		1	37	23.81	23.96	23.91
		1	74	23.86	23.89	23.86
		36	0	22.95	23.07	22.96
		36	19	22.86	22.99	22.84
		36	39	22.82	22.90	22.86
		75	0	22.80	22.90	22.88
15M	16QAM	1	0	22.48	22.64	22.59
		1	37	22.47	22.59	22.43
		1	74	22.40	22.50	22.44
		36	0	22.01	21.98	21.98
		36	19	21.80	22.00	21.96
		36	39	21.87	21.91	21.96
		75	0	21.88	21.96	21.90

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	23.87	23.98	23.93
		1	24	23.85	23.95	23.90
		1	49	23.89	23.93	23.88
		25	0	22.99	23.07	23.00
		25	12	22.86	22.99	22.92
		25	25	22.87	22.92	22.86
		50	0	22.77	22.87	22.82
10M	16QAM	1	0	22.48	22.63	22.51
		1	24	22.39	22.57	22.51
		1	49	22.49	22.50	22.43
		25	0	22.02	21.98	22.04
		25	12	21.81	22.03	21.98
		25	25	21.90	21.88	21.90
		50	0	21.86	21.98	21.92
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	23.86	23.93	23.89
		1	12	23.84	23.87	23.84
		1	24	23.79	23.85	23.82
		12	0	22.94	23.01	22.93
		12	6	22.83	22.94	22.82
		12	13	22.78	22.91	22.83
		25	0	22.76	22.82	22.75
5M	16QAM	1	0	22.45	22.53	22.46
		1	12	22.39	22.53	22.45
		1	24	22.41	22.42	22.39
		12	0	21.98	21.91	21.97
		12	6	21.77	21.97	21.91
		12	13	21.81	21.80	21.86
		25	0	21.80	21.97	21.86

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	23.84	23.89	23.87
		1	7	23.79	23.87	23.80
		1	14	23.69	23.76	23.75
		8	0	22.90	23.00	22.84
		8	3	22.79	22.93	22.75
		8	7	22.74	22.88	22.75
		15	0	22.69	22.72	22.68
3M	16QAM	1	0	22.39	22.46	22.42
		1	7	22.33	22.50	22.41
		1	14	22.39	22.35	22.35
		8	0	21.94	21.90	21.93
		8	3	21.69	21.97	21.82
		8	7	21.75	21.80	21.82
		15	0	21.79	21.93	21.82
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	23.79	23.90	23.80
		1	2	23.75	23.77	23.78
		1	5	23.71	23.81	23.76
		3	0	22.94	23.01	22.87
		3	1	22.75	22.88	22.79
		3	3	22.78	22.89	22.78
		6	0	22.67	22.82	22.69
1.4M	16QAM	1	0	22.45	22.43	22.40
		1	2	22.34	22.46	22.35
		1	5	22.32	22.41	22.35
		3	0	21.91	21.88	21.94
		3	1	21.72	21.90	21.84
		3	3	21.76	21.71	21.79
		6	0	21.72	21.88	21.78

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

7.1.14 LTE Band 71

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	23.38	23.28	23.46
		1	50	23.33	23.24	23.42
		1	99	23.30	23.18	23.38
		50	0	22.40	22.36	22.46
		50	25	22.32	22.22	22.40
		50	50	22.25	22.22	22.33
		100	0	22.40	22.40	22.44
20M	16QAM	1	0	22.14	22.04	22.23
		1	50	22.29	22.19	22.37
		1	99	22.10	22.07	22.13
		50	0	21.41	21.32	21.48
		50	25	21.34	21.28	21.43
		50	50	21.30	21.26	21.41
		100	0	21.35	21.32	21.45
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	23.38	23.32	23.43
		1	37	23.31	23.24	23.38
		1	74	23.20	23.10	23.29
		36	0	22.39	22.30	22.41
		36	19	22.29	22.22	22.39
		36	39	22.21	22.18	22.28
		75	0	22.31	22.37	22.38
15M	16QAM	1	0	22.06	21.96	22.13
		1	37	22.20	22.11	22.27
		1	74	22.01	21.97	22.12
		36	0	21.31	21.29	21.43
		36	19	21.33	21.21	21.36
		36	39	21.20	21.17	21.38
		75	0	21.30	21.27	21.43

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	23.35	23.26	23.38
		1	24	23.33	23.24	23.36
		1	49	23.26	23.15	23.29
		25	0	22.34	22.33	22.44
		25	12	22.31	22.18	22.30
		25	25	22.24	22.13	22.24
		50	0	22.33	22.35	22.40
10M	16QAM	1	0	22.06	22.03	22.17
		1	24	22.19	22.15	22.30
		1	49	22.01	22.01	22.07
		25	0	21.31	21.23	21.42
		25	12	21.27	21.25	21.39
		25	25	21.29	21.26	21.39
		50	0	21.33	21.31	21.37
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	23.30	23.22	23.36
		1	12	23.30	23.19	23.26
		1	24	23.22	23.14	23.29
		12	0	22.27	22.31	22.44
		12	6	22.29	22.09	22.23
		12	13	22.19	22.03	22.19
		25	0	22.31	22.33	22.36
5M	16QAM	1	0	22.05	22.00	22.13
		1	12	22.17	22.15	22.22
		1	24	21.93	21.94	21.98
		12	0	21.23	21.21	21.38
		12	6	21.26	21.26	21.37
		12	13	21.23	21.21	21.29
		25	0	21.26	21.24	21.34

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133222	133297	133372
		Frequency (MHz)		673	680.5	688
20M	QPSK	1	0	26.08	25.98	26.16
		1	50	26.03	25.94	26.12
		1	99	26.00	25.88	26.08
		50	0	25.10	25.06	25.16
		50	25	25.02	24.92	25.10
		50	50	24.95	24.92	25.03
		100	0	25.10	25.10	25.14
20M	16QAM	1	0	24.84	24.74	24.93
		1	50	24.99	24.89	25.07
		1	99	24.80	24.77	24.83
		50	0	24.11	24.02	24.18
		50	25	24.04	23.98	24.13
		50	50	24.00	23.96	24.11
		100	0	24.05	24.02	24.15
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133197	133297	133397
		Frequency (MHz)		670.5	680.5	690.5
15M	QPSK	1	0	26.08	26.02	26.13
		1	37	26.01	25.94	26.08
		1	74	25.90	25.80	25.99
		36	0	25.09	25.00	25.11
		36	19	24.99	24.92	25.09
		36	39	24.91	24.88	24.98
		75	0	25.01	25.07	25.08
15M	16QAM	1	0	24.76	24.66	24.83
		1	37	24.90	24.81	24.97
		1	74	24.71	24.67	24.82
		36	0	24.01	23.99	24.13
		36	19	24.03	23.91	24.06
		36	39	23.90	23.87	24.08
		75	0	24.00	23.97	24.13

*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	26.05	25.96	26.08
		1	24	26.03	25.94	26.06
		1	49	25.96	25.85	25.99
		25	0	25.04	25.03	25.14
		25	12	25.01	24.88	25.00
		25	25	24.94	24.83	24.94
		50	0	25.03	25.05	25.10
10M	16QAM	1	0	24.76	24.73	24.87
		1	24	24.89	24.85	25.00
		1	49	24.71	24.71	24.77
		25	0	24.01	23.93	24.12
		25	12	23.97	23.95	24.09
		25	25	23.99	23.96	24.09
		50	0	24.03	24.01	24.07
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133147	133297	133447
		Frequency (MHz)		665.5	680.5	695.5
5M	QPSK	1	0	26.00	25.92	26.06
		1	12	26.00	25.89	25.96
		1	24	25.92	25.84	25.99
		12	0	24.97	25.01	25.14
		12	6	24.99	24.79	24.93
		12	13	24.89	24.73	24.89
		25	0	25.01	25.03	25.06
5M	16QAM	1	0	24.75	24.70	24.83
		1	12	24.87	24.85	24.92
		1	24	24.63	24.64	24.68
		12	0	23.93	23.91	24.08
		12	6	23.96	23.96	24.07
		12	13	23.93	23.91	23.99
		25	0	23.96	23.94	24.04

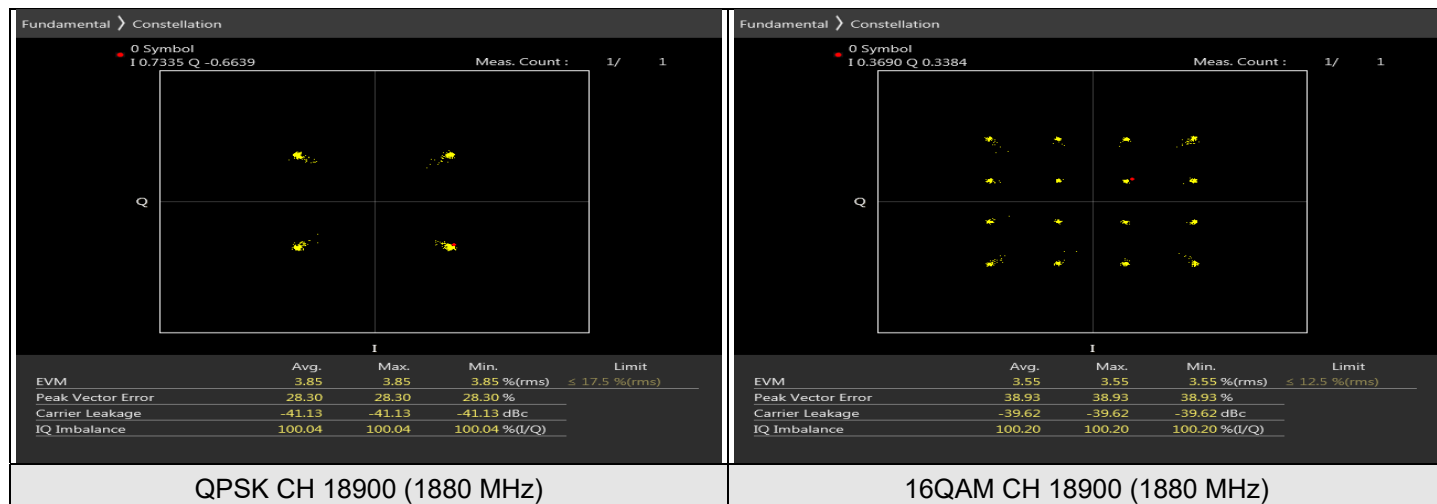
*ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15

7.2 Modulation Characteristics

Input Power:	7.3 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.2.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz



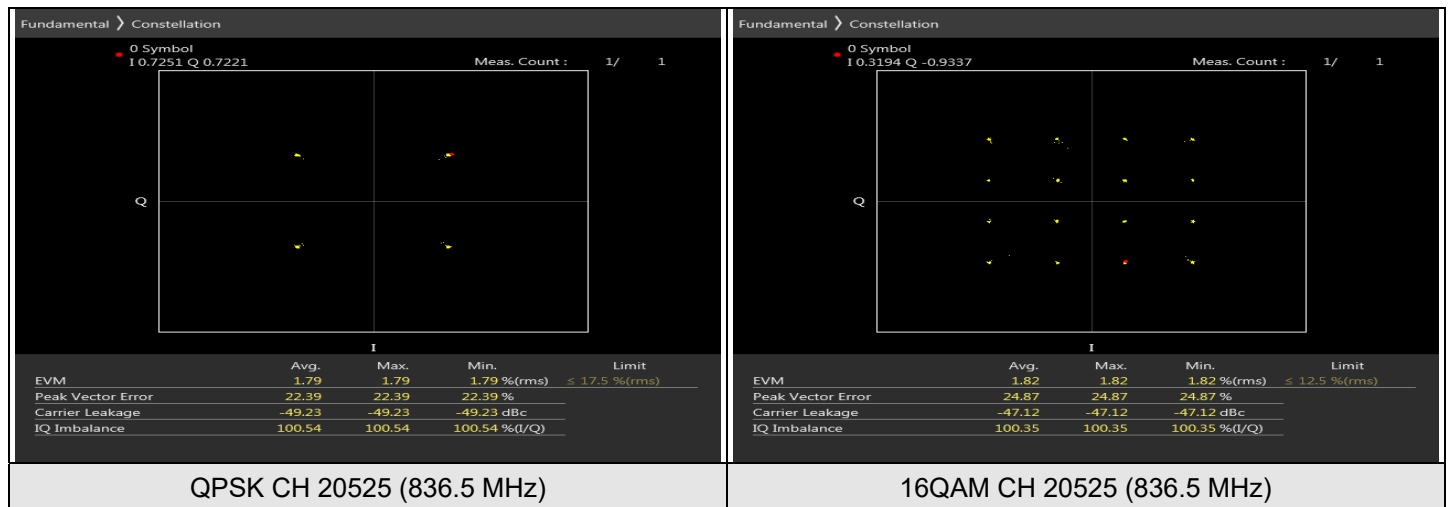
7.2.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 20 MHz



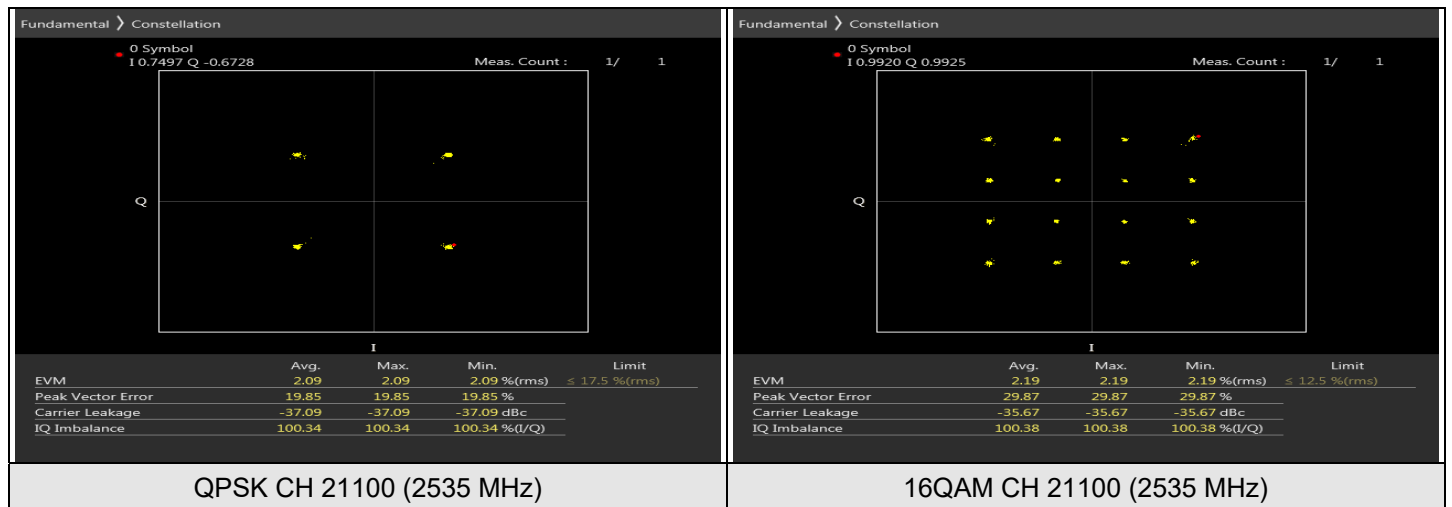
7.2.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz



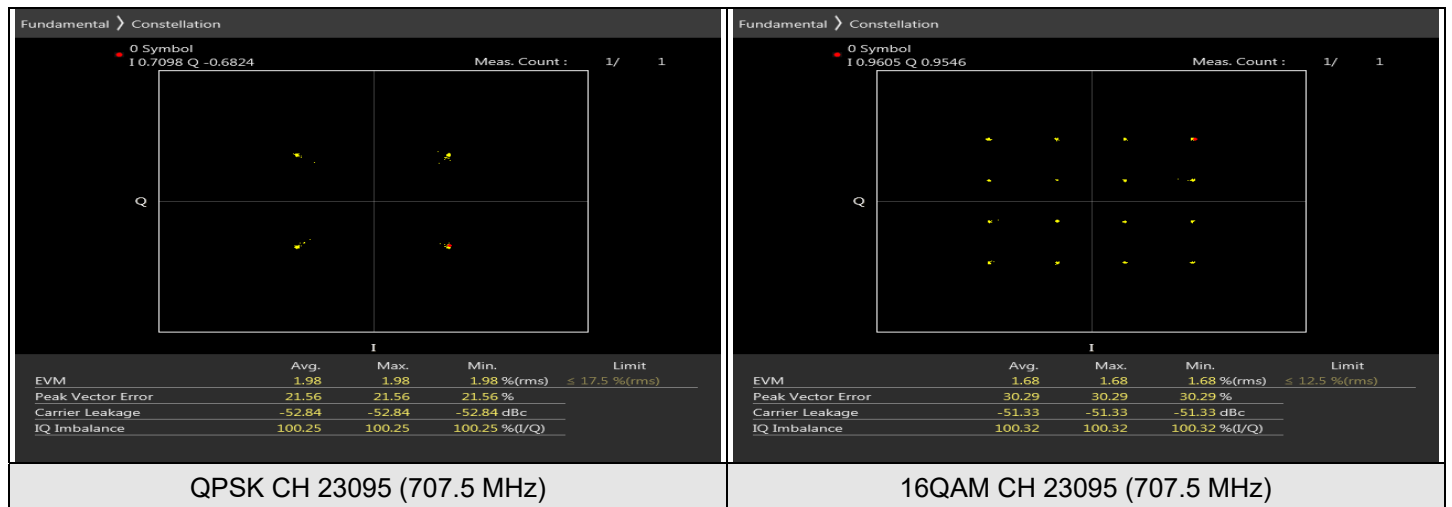
7.2.4 LTE Band 7

LTE Band 7, Channel Bandwidth: 20 MHz



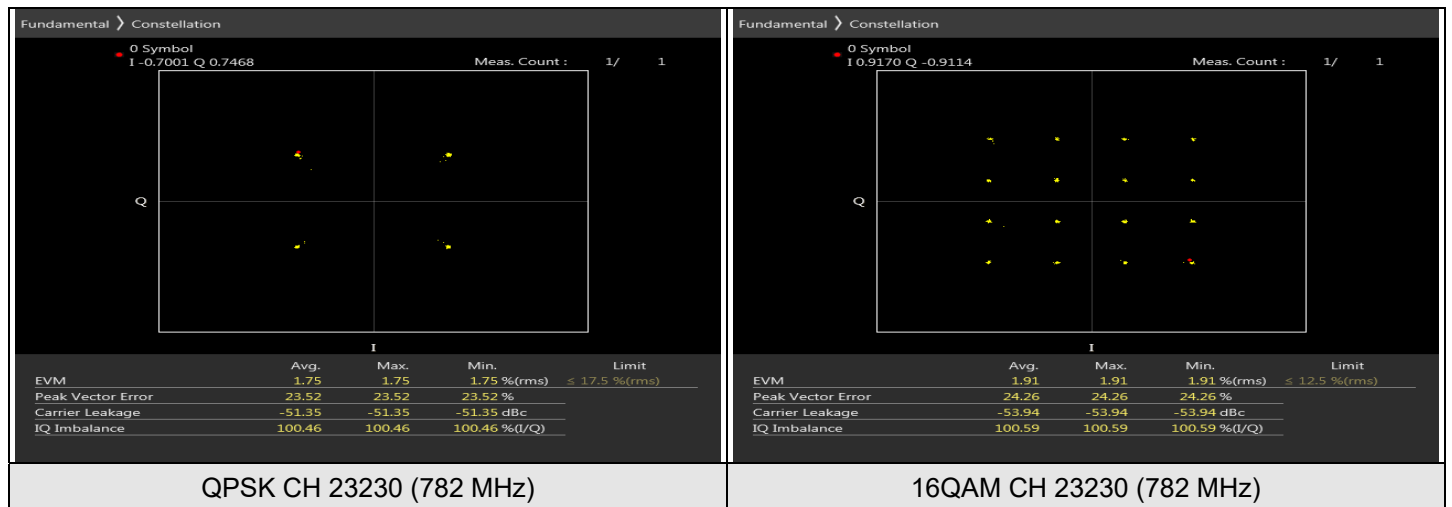
7.2.5 LTE Band 12

LTE Band 12, Channel Bandwidth: 10 MHz



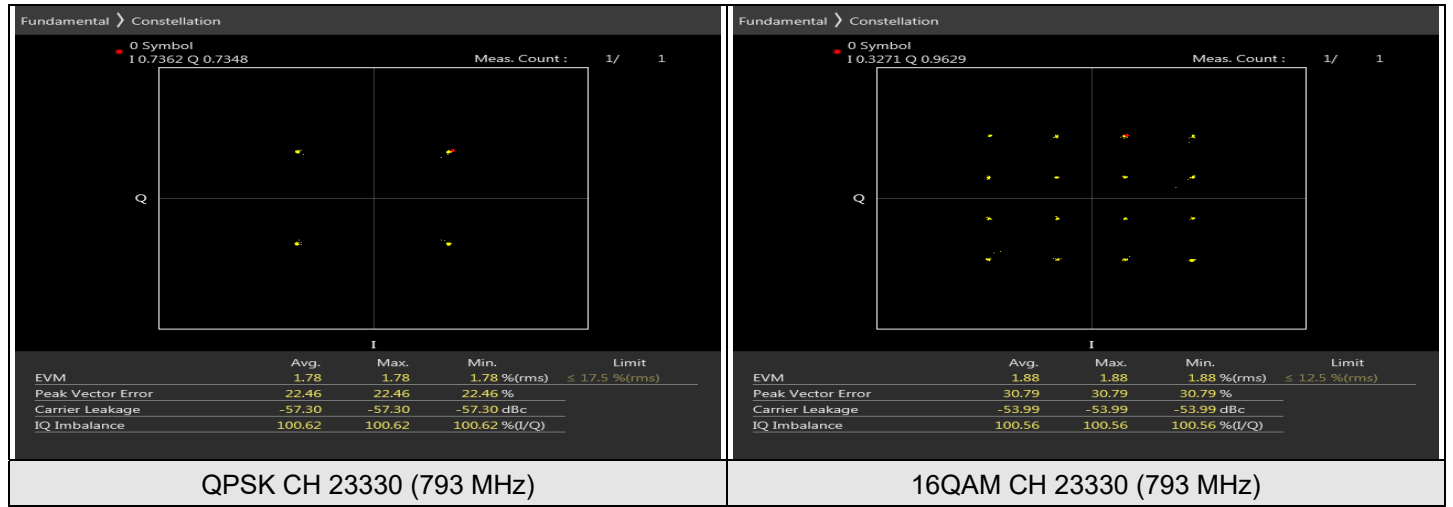
7.2.6 LTE Band 13

LTE Band 13, Channel Bandwidth: 10 MHz



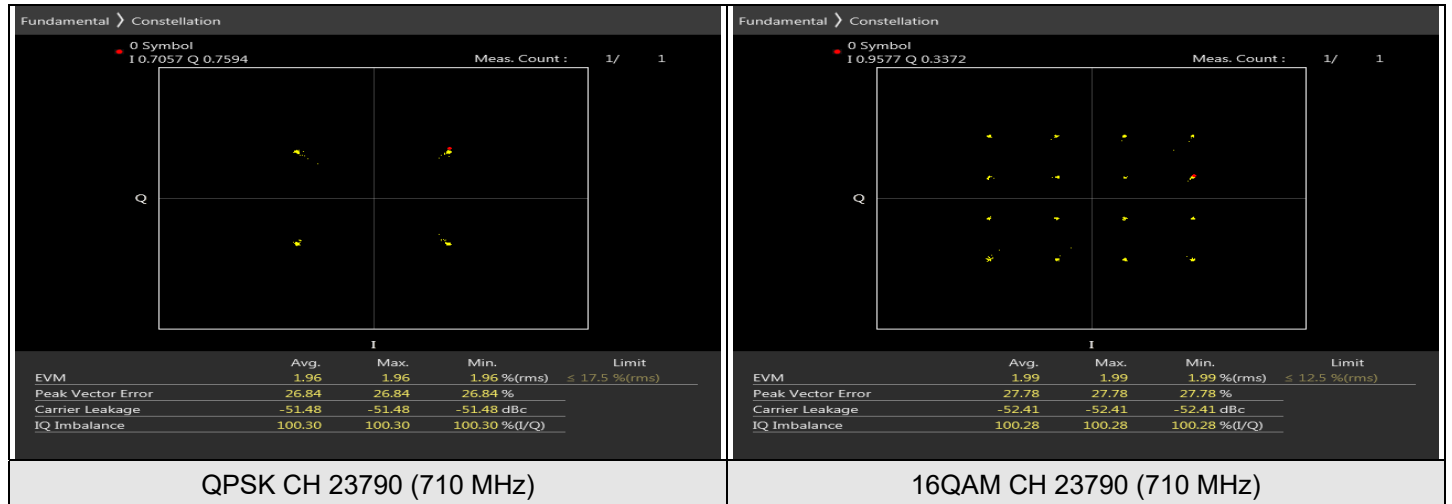
7.2.7 LTE Band 14

LTE Band 14, Channel Bandwidth: 10 MHz



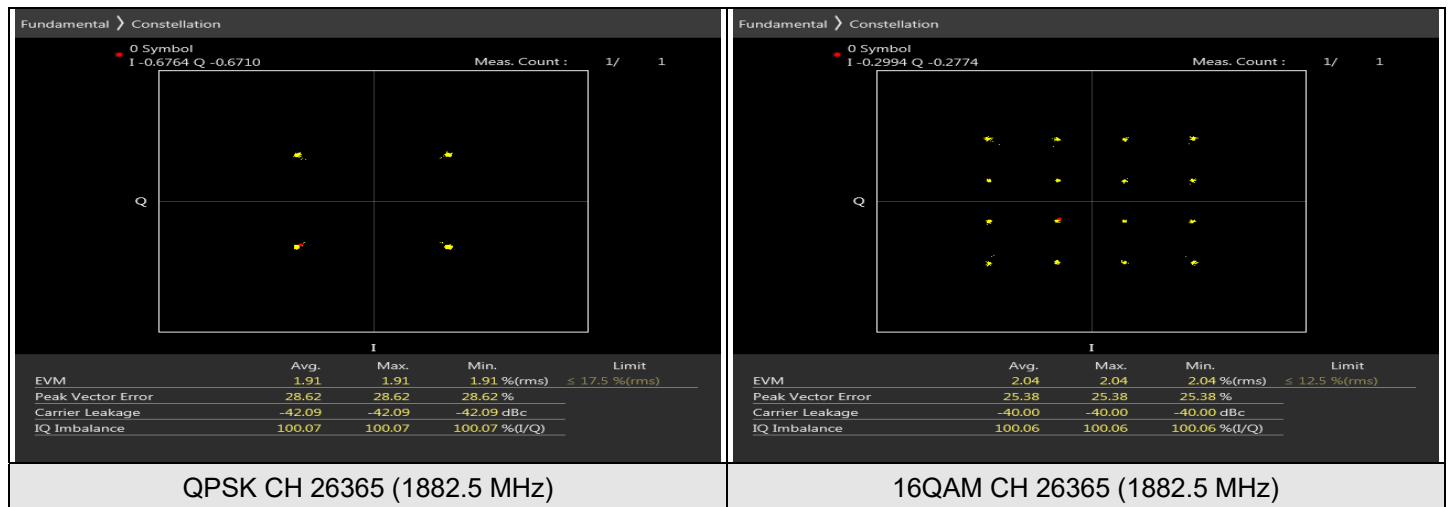
7.2.8 LTE Band 17

LTE Band 17, Channel Bandwidth: 10 MHz



7.2.9 LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz



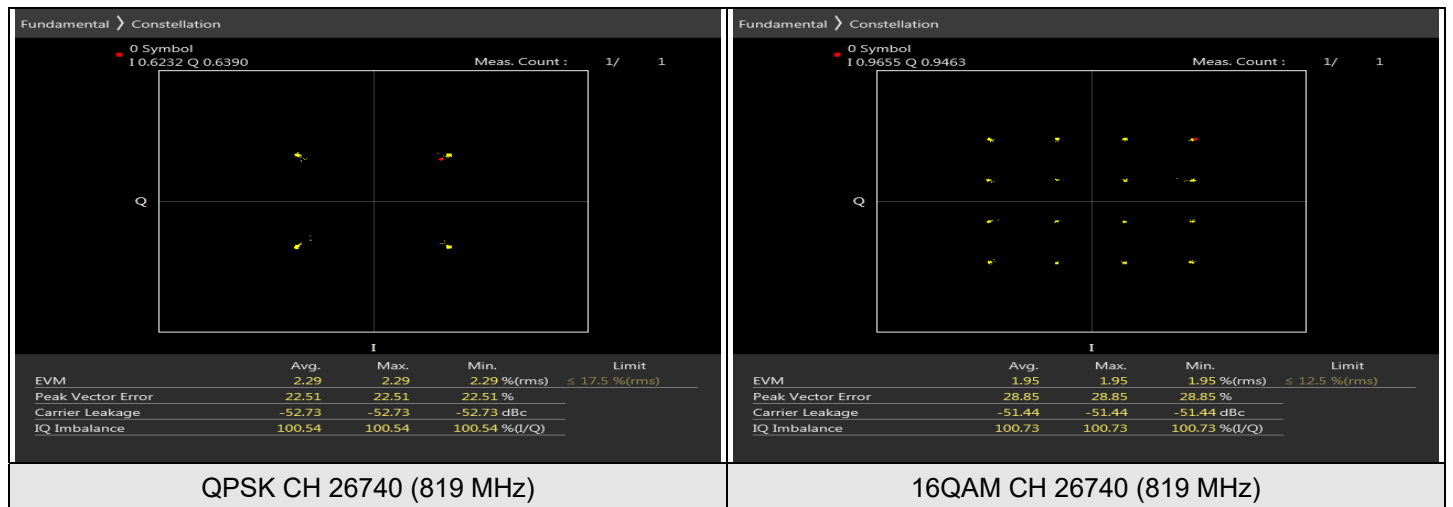
7.2.10 LTE Band 26 (Part 22)

LTE Band 26, Channel Bandwidth: 15 MHz



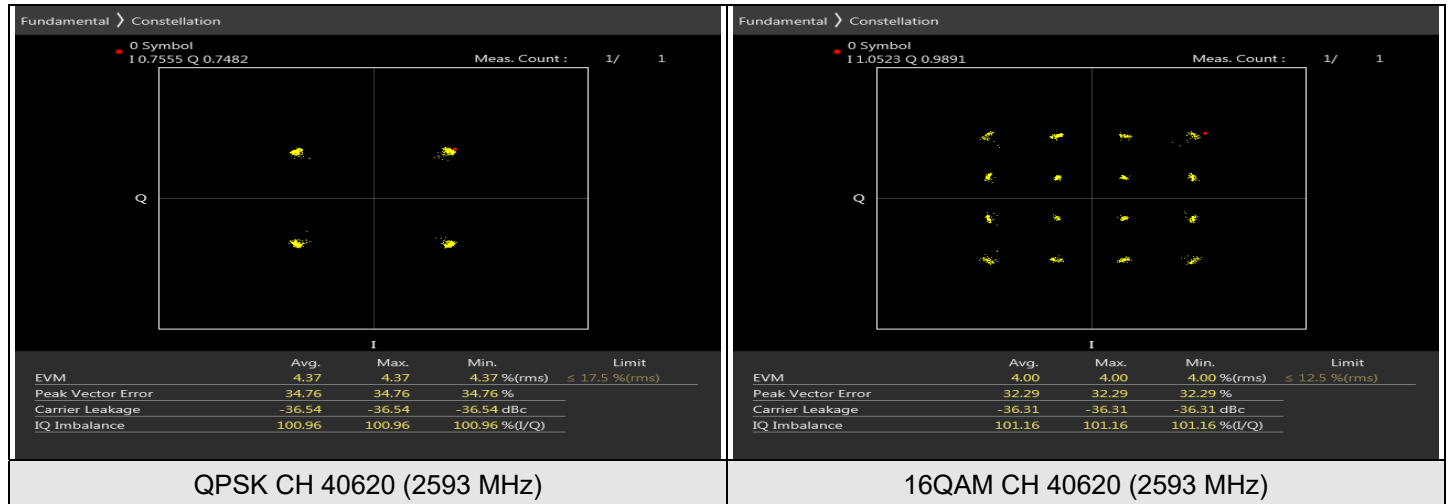
7.2.11 LTE Band 26 (Part 90)

LTE Band 26, Channel Bandwidth: 10 MHz



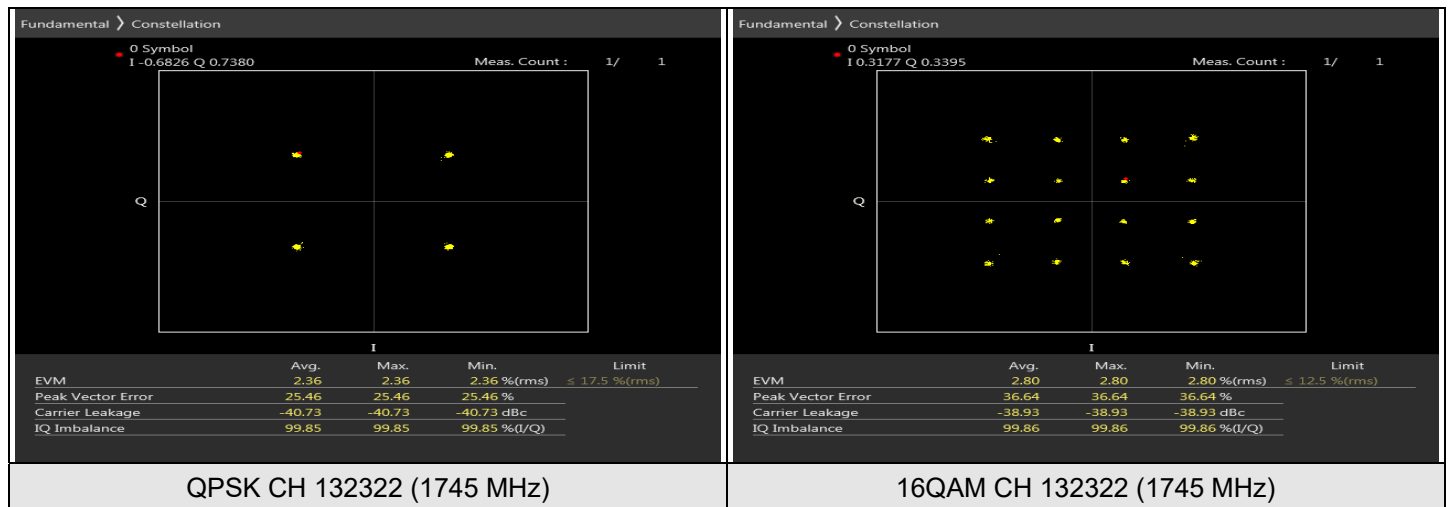
7.2.12 LTE Band 41

LTE Band 41, Channel Bandwidth: 20 MHz



7.2.13 LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz



7.2.14 LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz



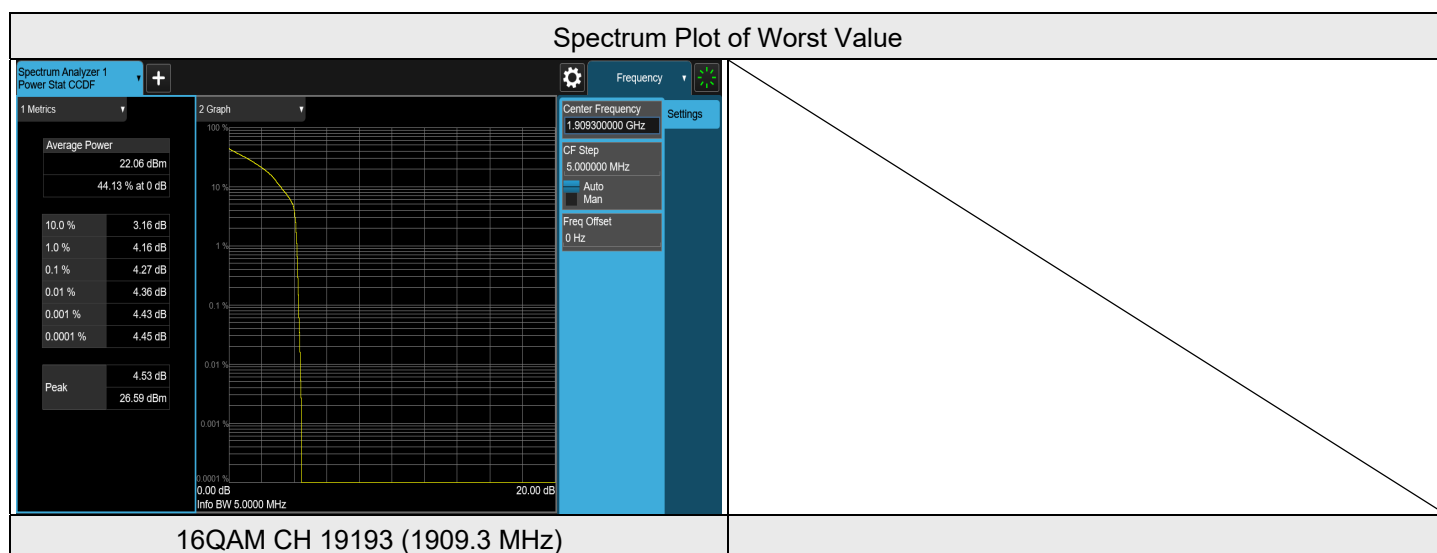
7.3 Peak to Average Ratio

Input Power:	7.3 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.3.1 LTE Band 2

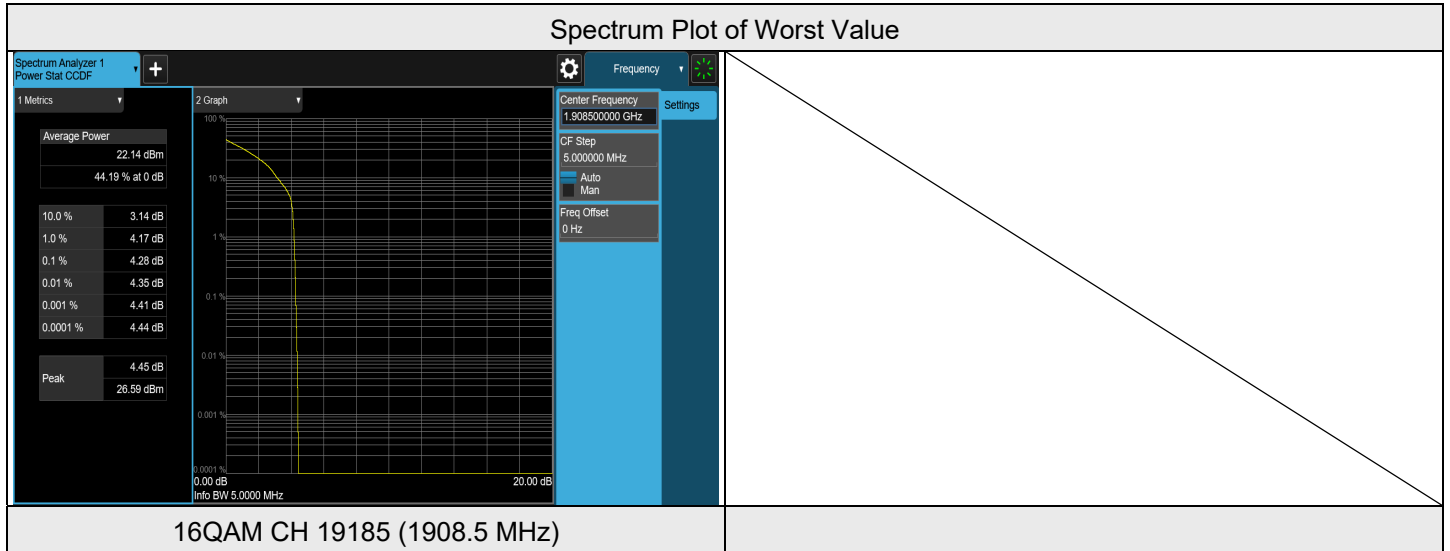
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18607	1850.7	3.31	13	Pass
QPSK	18900	1880	3.30	13	Pass
QPSK	19193	1909.3	3.36	13	Pass
16QAM	18607	1850.7	4.20	13	Pass
16QAM	18900	1880	4.22	13	Pass
16QAM	19193	1909.3	4.27	13	Pass



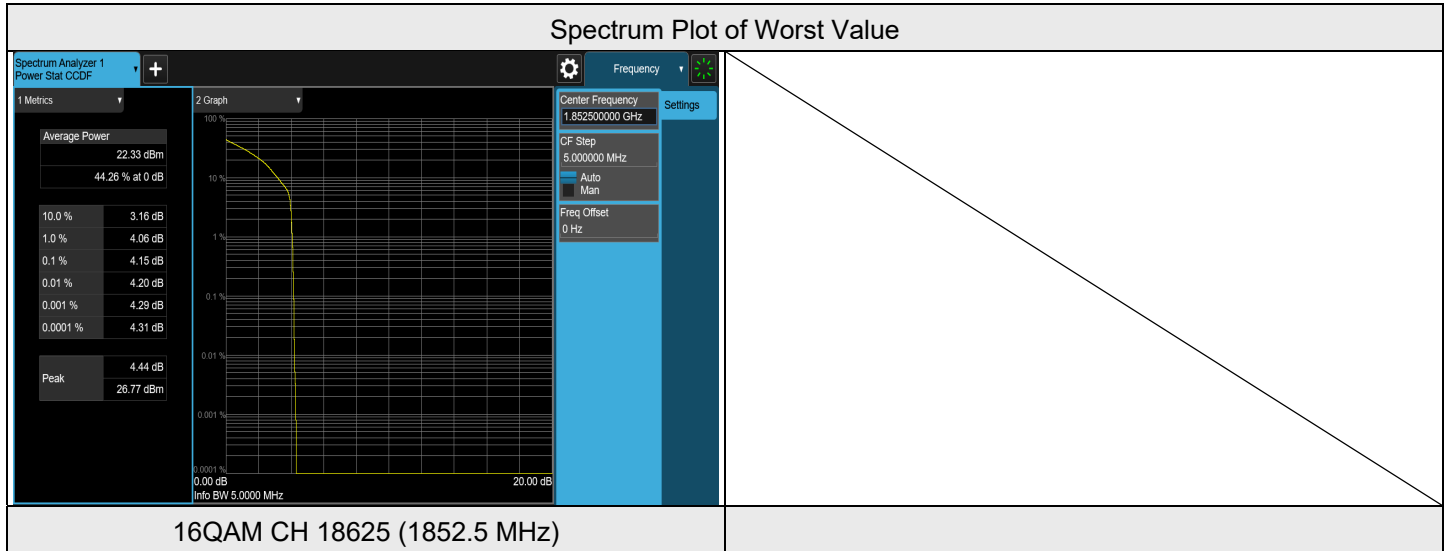
LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18615	1851.5	3.34	13	Pass
QPSK	18900	1880	3.30	13	Pass
QPSK	19185	1908.5	3.35	13	Pass
16QAM	18615	1851.5	4.22	13	Pass
16QAM	18900	1880	4.27	13	Pass
16QAM	19185	1908.5	4.28	13	Pass



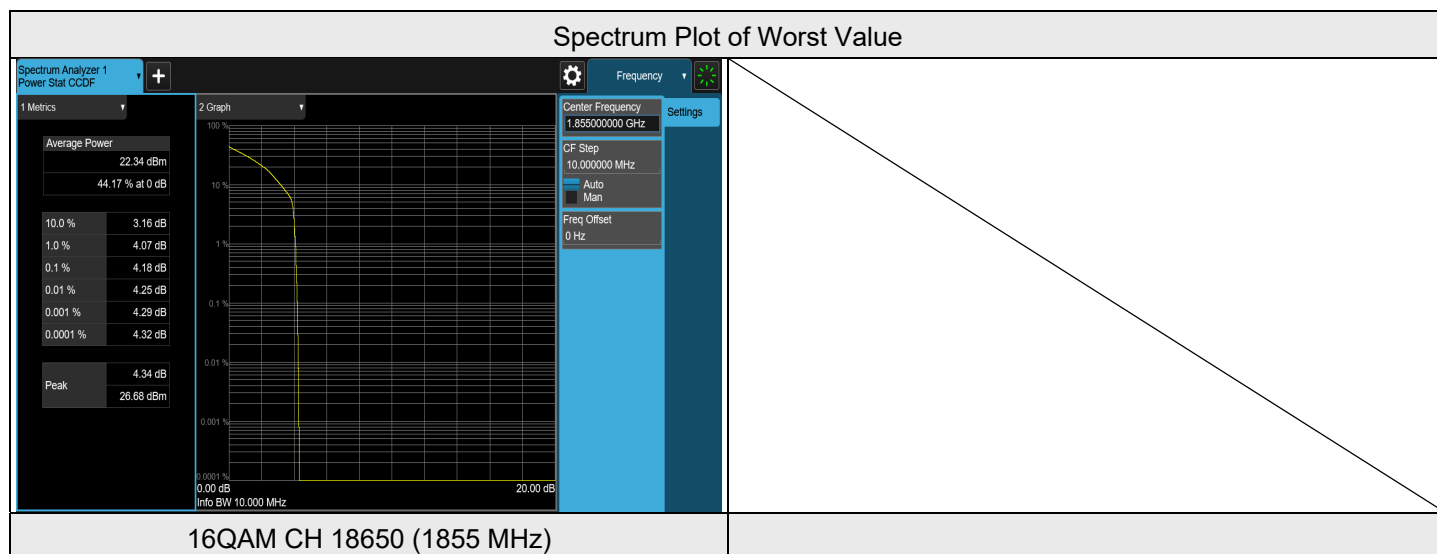
LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18625	1852.5	3.26	13	Pass
QPSK	18900	1880	3.23	13	Pass
QPSK	19175	1907.5	3.26	13	Pass
16QAM	18625	1852.5	4.15	13	Pass
16QAM	18900	1880	4.13	13	Pass
16QAM	19175	1907.5	4.14	13	Pass



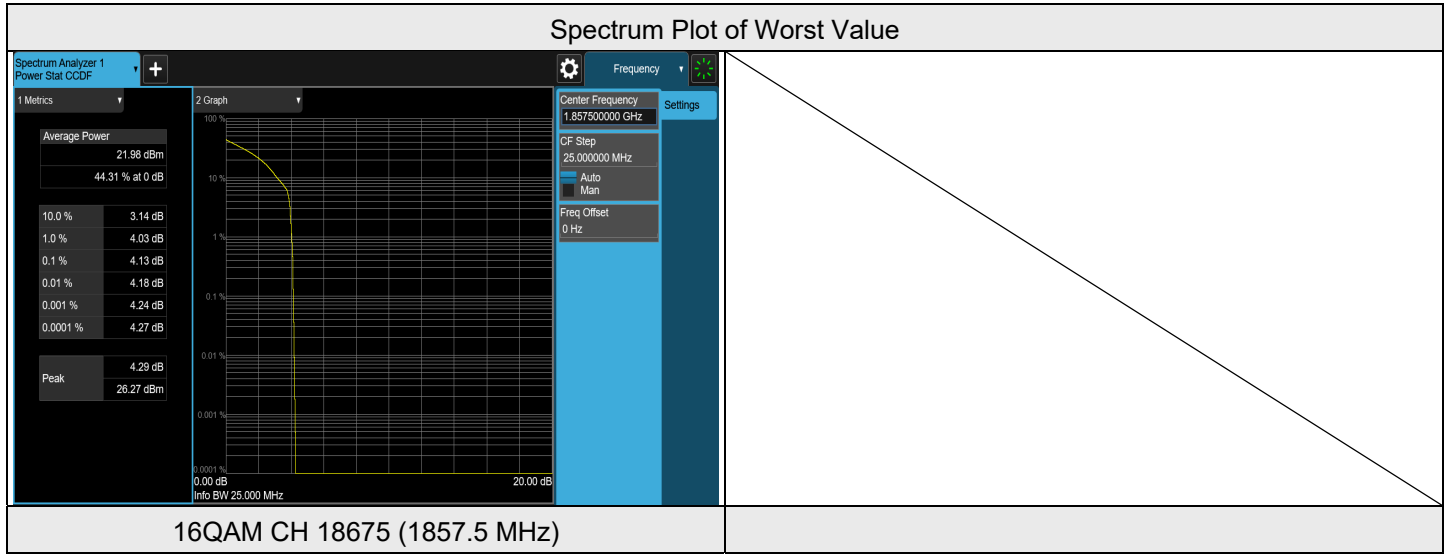
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18650	1855	3.26	13	Pass
QPSK	18900	1880	3.24	13	Pass
QPSK	19150	1905	3.27	13	Pass
16QAM	18650	1855	4.18	13	Pass
16QAM	18900	1880	4.13	13	Pass
16QAM	19150	1905	4.17	13	Pass



LTE Band 2, Channel Bandwidth: 15 MHz

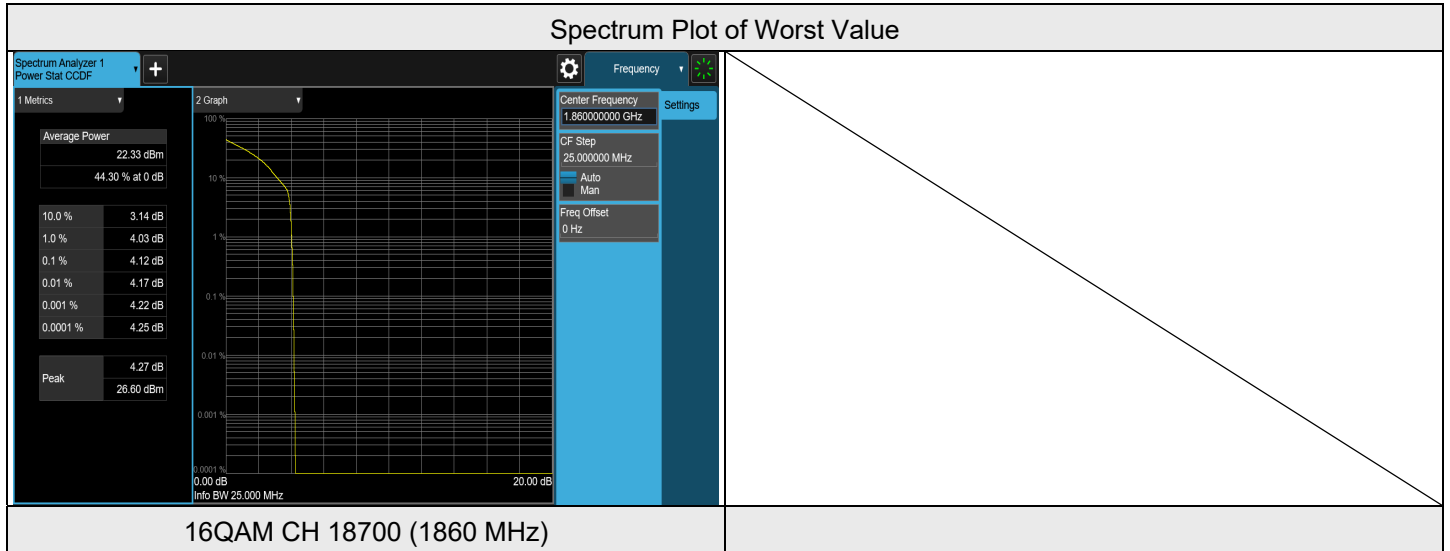
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18675	1857.5	3.23	13	Pass
QPSK	18900	1880	3.21	13	Pass
QPSK	19125	1902.5	3.18	13	Pass
16QAM	18675	1857.5	4.13	13	Pass
16QAM	18900	1880	4.05	13	Pass
16QAM	19125	1902.5	4.10	13	Pass





LTE Band 2, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	18700	1860	3.17	13	Pass
QPSK	18900	1880	3.17	13	Pass
QPSK	19100	1900	3.15	13	Pass
16QAM	18700	1860	4.12	13	Pass
16QAM	18900	1880	4.04	13	Pass
16QAM	19100	1900	4.03	13	Pass

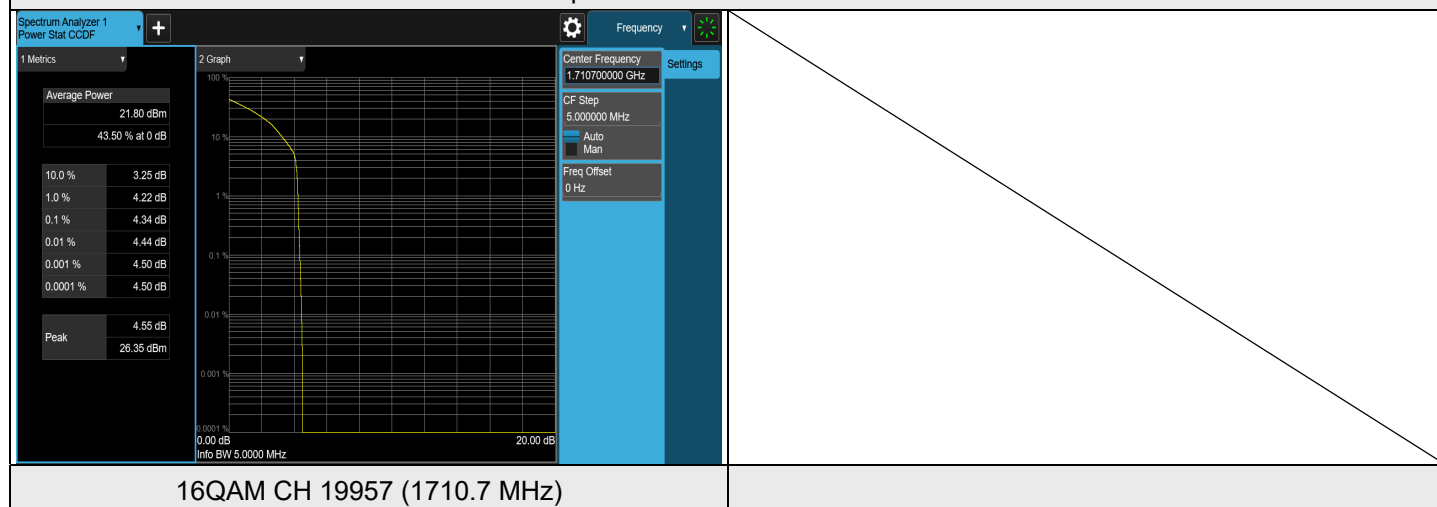


7.3.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19957	1710.7	3.39	13	Pass
QPSK	20175	1732.5	3.29	13	Pass
QPSK	20393	1754.3	3.26	13	Pass
16QAM	19957	1710.7	4.34	13	Pass
16QAM	20175	1732.5	4.24	13	Pass
16QAM	20393	1754.3	4.33	13	Pass

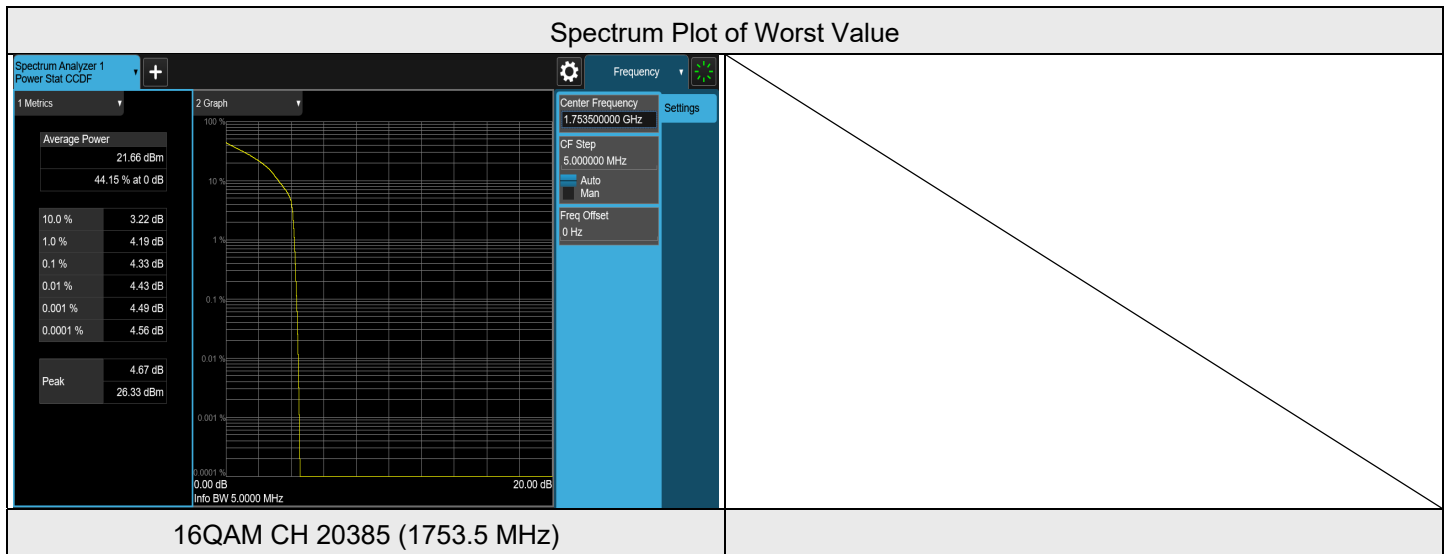
Spectrum Plot of Worst Value





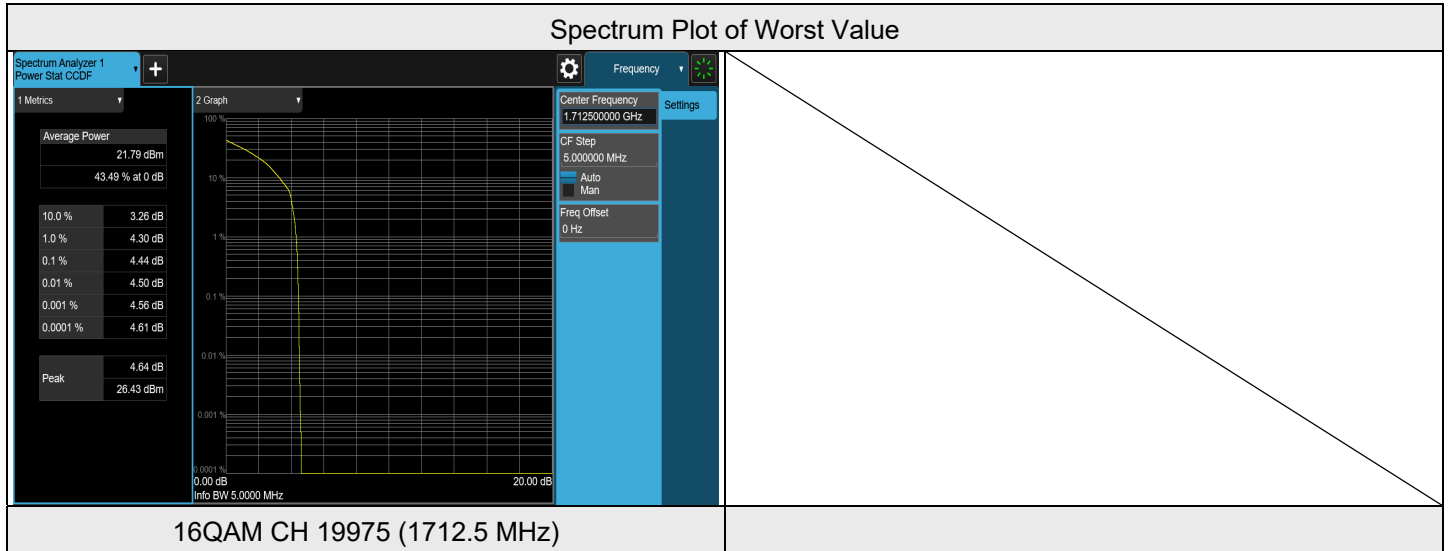
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19965	1711.5	3.39	13	Pass
QPSK	20175	1732.5	3.30	13	Pass
QPSK	20385	1753.5	3.32	13	Pass
16QAM	19965	1711.5	4.29	13	Pass
16QAM	20175	1732.5	4.25	13	Pass
16QAM	20385	1753.5	4.33	13	Pass



LTE Band 4, Channel Bandwidth: 5 MHz

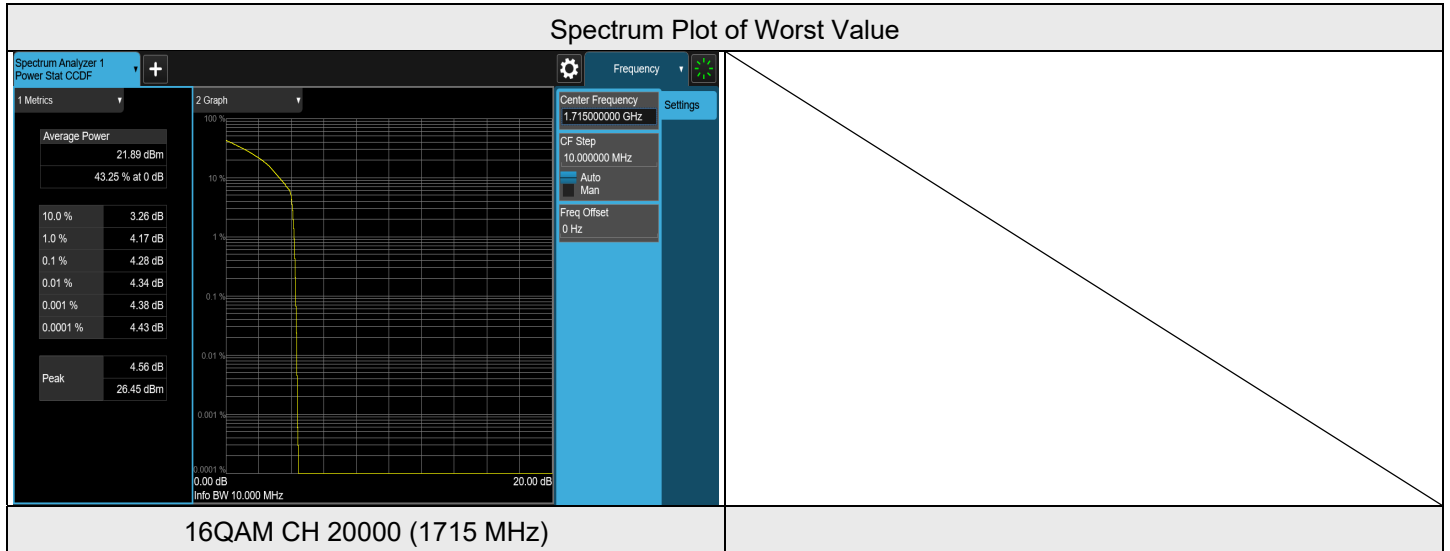
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	19975	1712.5	3.31	13	Pass
QPSK	20175	1732.5	3.19	13	Pass
QPSK	20375	1752.5	3.29	13	Pass
16QAM	19975	1712.5	4.44	13	Pass
16QAM	20175	1732.5	4.16	13	Pass
16QAM	20375	1752.5	4.22	13	Pass





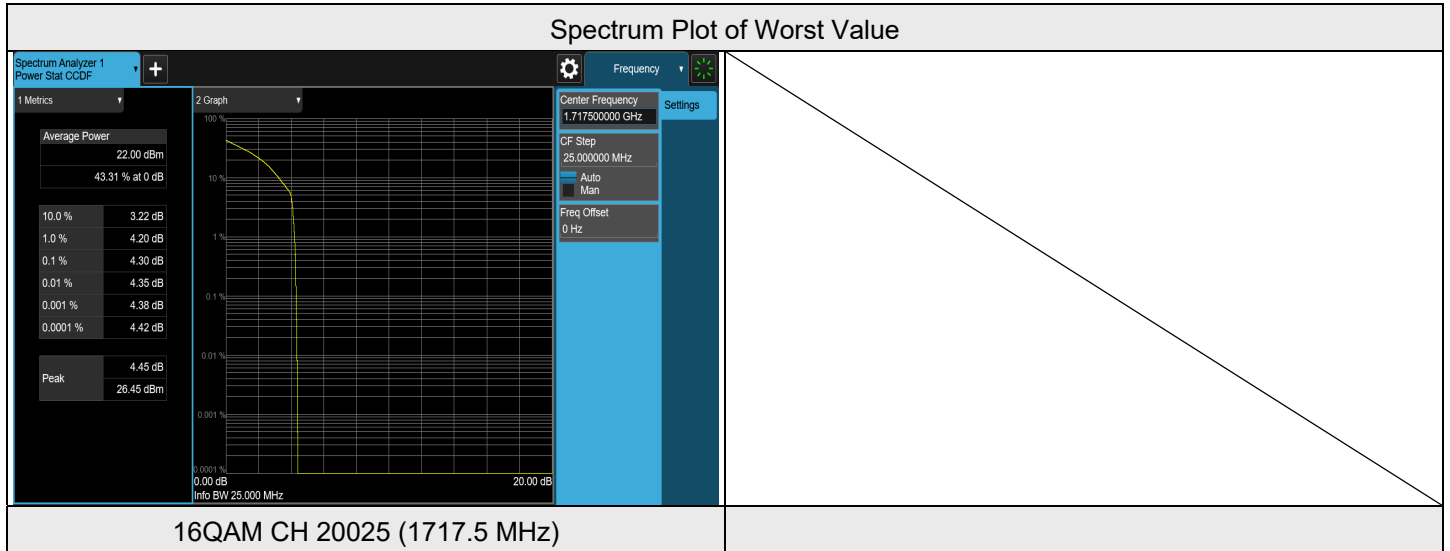
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20000	1715	3.32	13	Pass
QPSK	20175	1732.5	3.18	13	Pass
QPSK	20350	1750	3.34	13	Pass
16QAM	20000	1715	4.28	13	Pass
16QAM	20175	1732.5	4.11	13	Pass
16QAM	20350	1750	4.27	13	Pass



LTE Band 4, Channel Bandwidth: 15 MHz

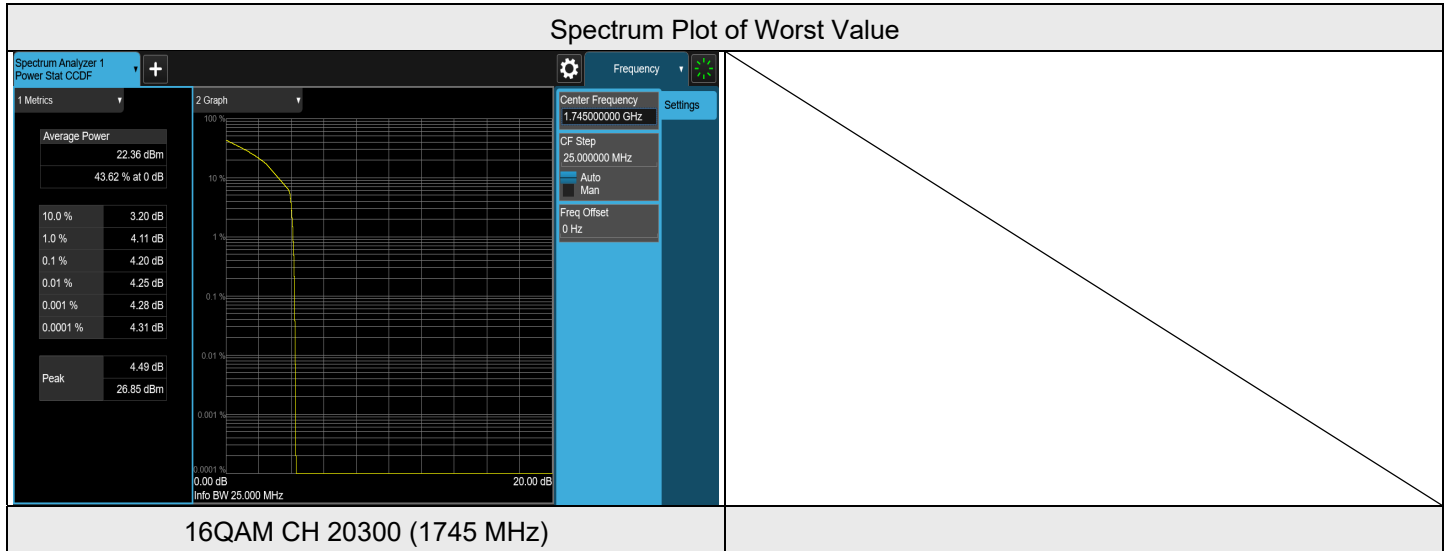
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20025	1717.5	3.32	13	Pass
QPSK	20175	1732.5	3.19	13	Pass
QPSK	20325	1747.5	3.30	13	Pass
16QAM	20025	1717.5	4.30	13	Pass
16QAM	20175	1732.5	4.05	13	Pass
16QAM	20325	1747.5	4.17	13	Pass





LTE Band 4, Channel Bandwidth: 20 MHz

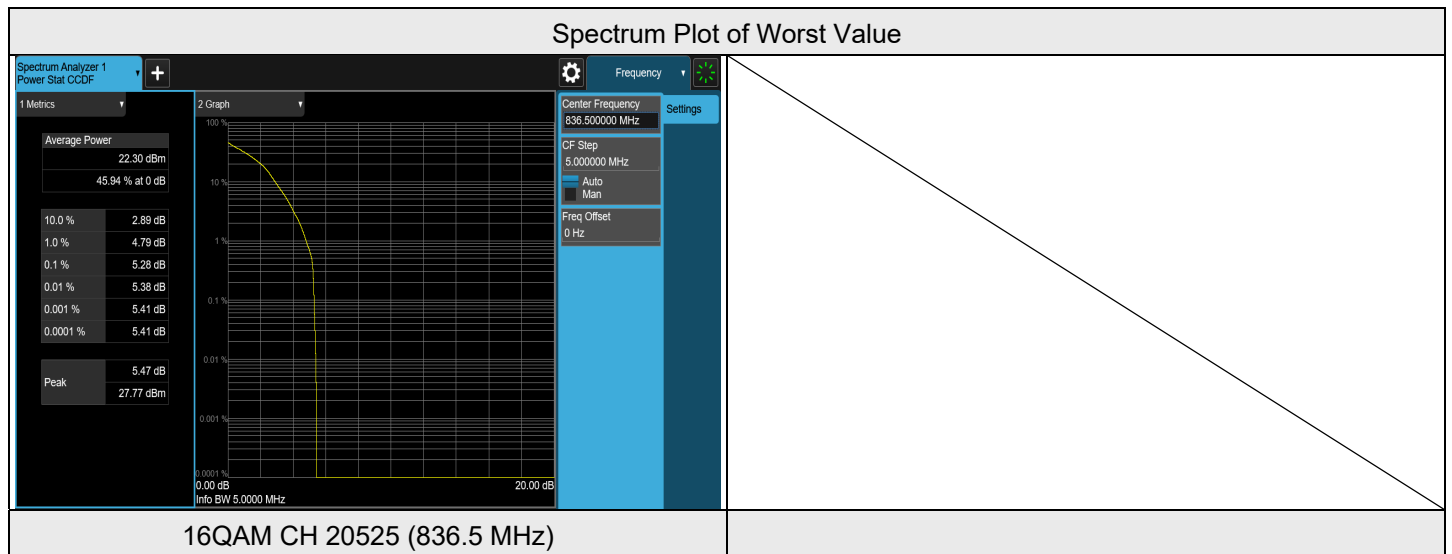
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20050	1720	3.28	13	Pass
QPSK	20175	1732.5	3.16	13	Pass
QPSK	20300	1745	3.23	13	Pass
16QAM	20050	1720	4.17	13	Pass
16QAM	20175	1732.5	4.00	13	Pass
16QAM	20300	1745	4.20	13	Pass



7.3.3 LTE Band 5

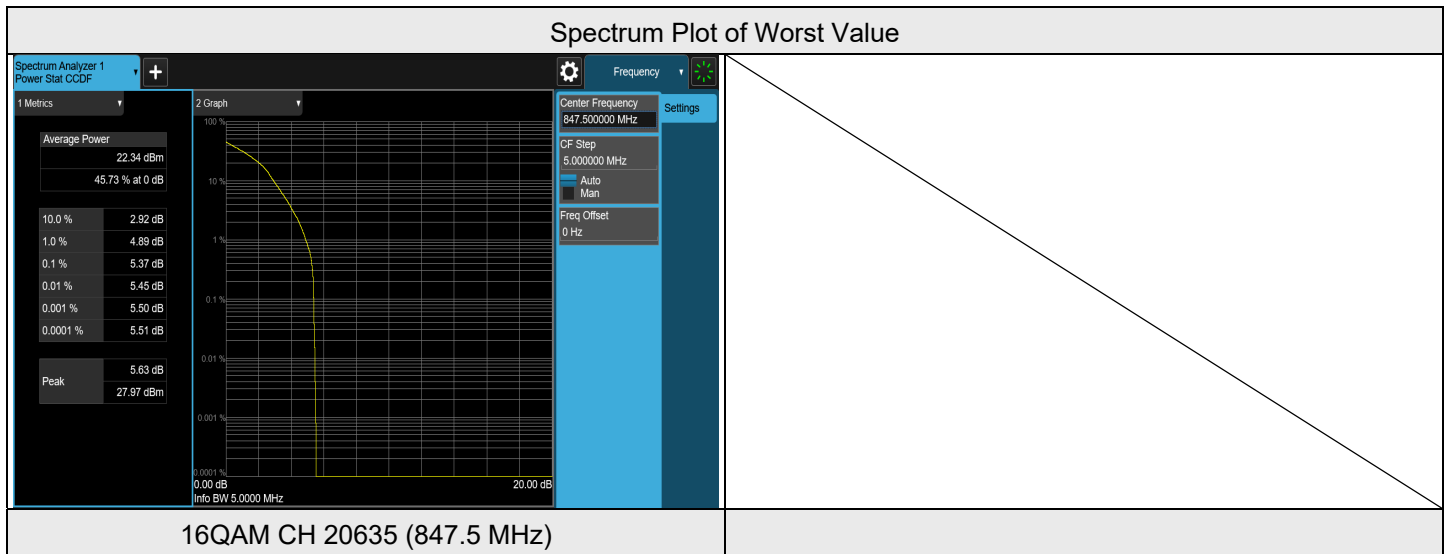
LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20407	824.7	4.24	13	Pass
QPSK	20525	836.5	4.30	13	Pass
QPSK	20643	848.3	4.02	13	Pass
16QAM	20407	824.7	5.19	13	Pass
16QAM	20525	836.5	5.28	13	Pass
16QAM	20643	848.3	5.06	13	Pass



LTE Band 5, Channel Bandwidth: 3 MHz

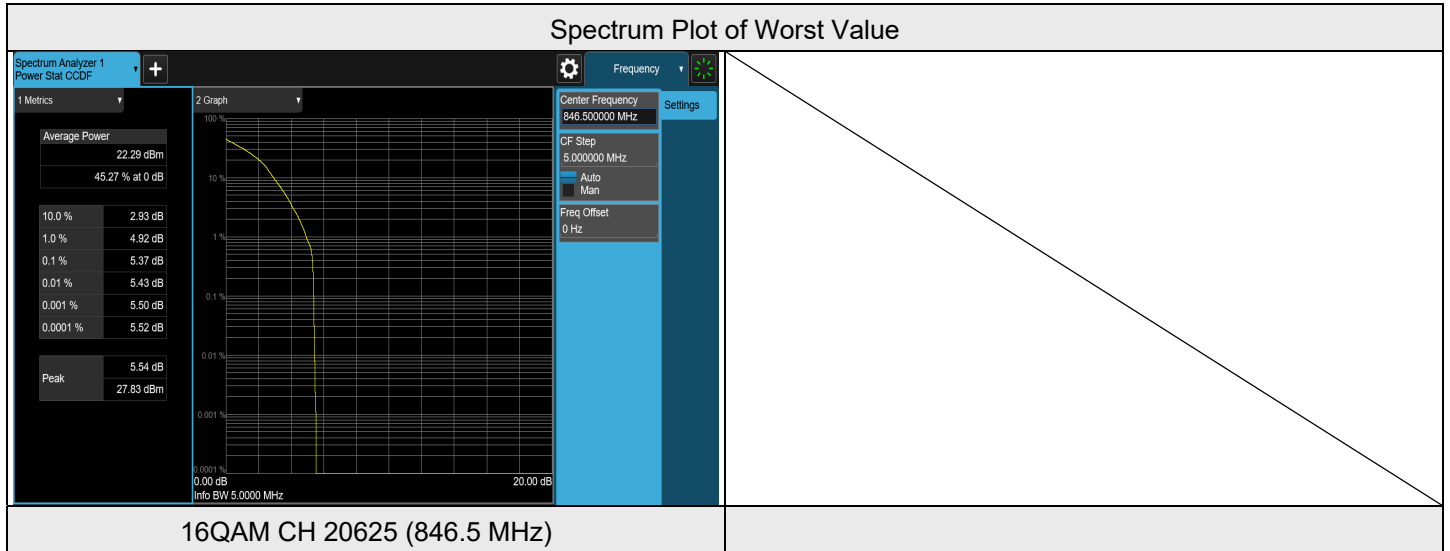
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20415	825.5	4.26	13	Pass
QPSK	20525	836.5	4.30	13	Pass
QPSK	20635	847.5	4.34	13	Pass
16QAM	20415	825.5	5.22	13	Pass
16QAM	20525	836.5	5.31	13	Pass
16QAM	20635	847.5	5.37	13	Pass





LTE Band 5, Channel Bandwidth: 5 MHz

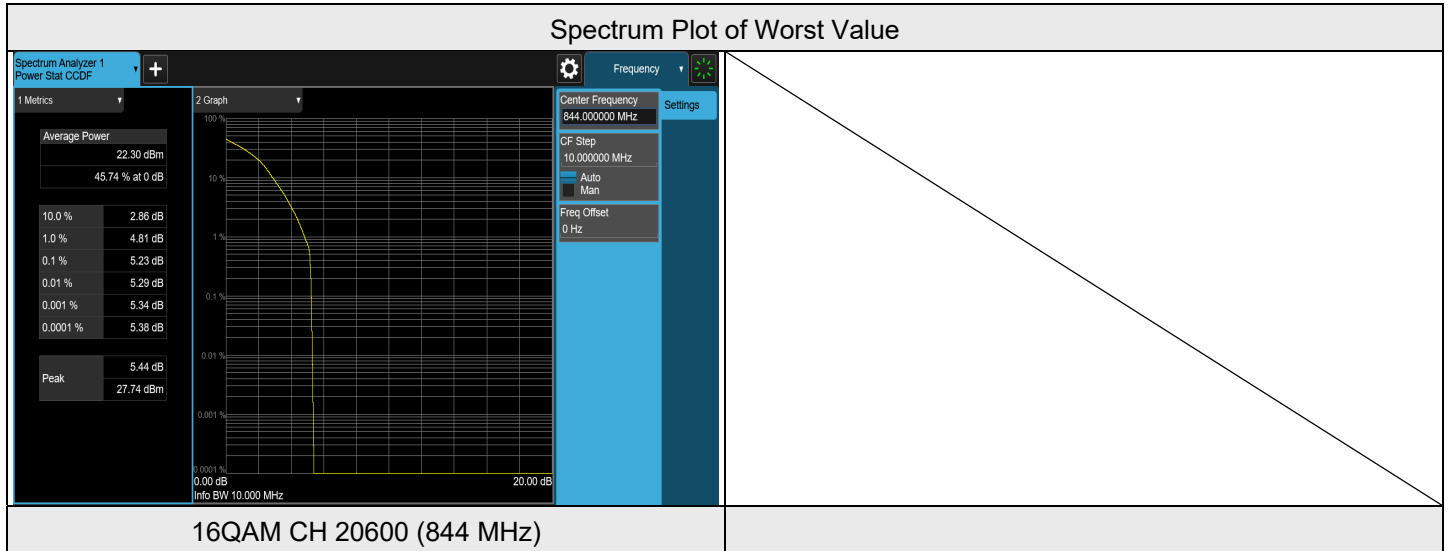
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20425	826.5	4.16	13	Pass
QPSK	20525	836.5	4.28	13	Pass
QPSK	20625	846.5	4.39	13	Pass
16QAM	20425	826.5	5.18	13	Pass
16QAM	20525	836.5	5.20	13	Pass
16QAM	20625	846.5	5.37	13	Pass





LTE Band 5, Channel Bandwidth: 10 MHz

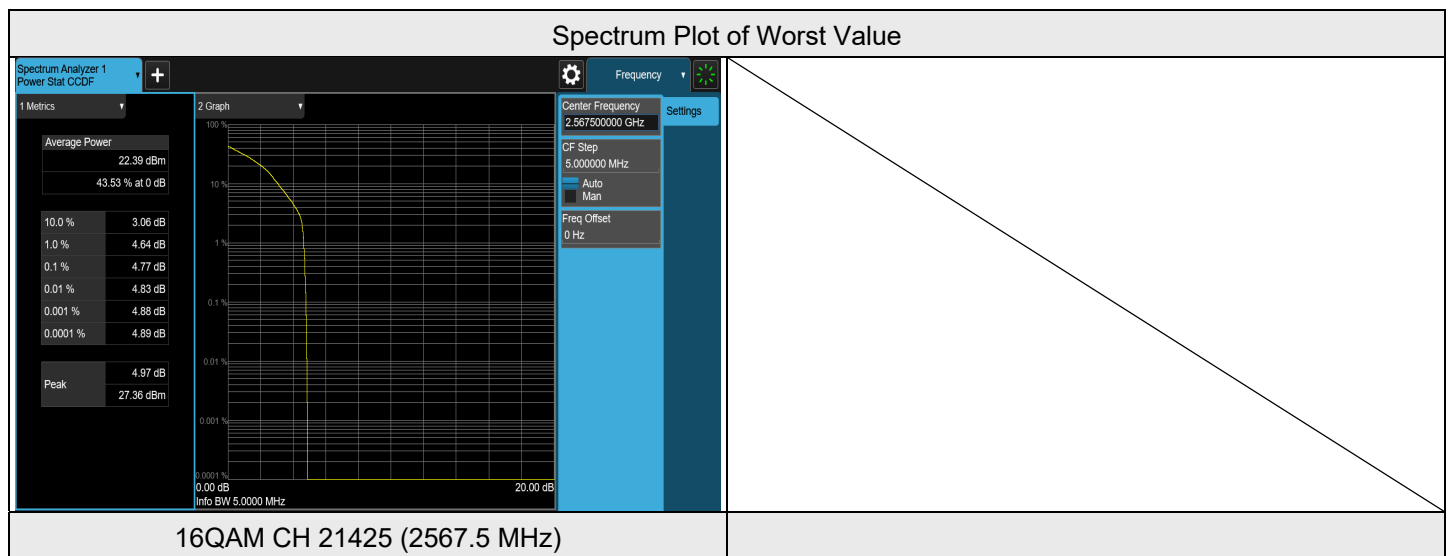
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20450	829	4.20	13	Pass
QPSK	20525	836.5	4.27	13	Pass
QPSK	20600	844	4.26	13	Pass
16QAM	20450	829	5.13	13	Pass
16QAM	20525	836.5	5.18	13	Pass
16QAM	20600	844	5.23	13	Pass



7.3.4 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

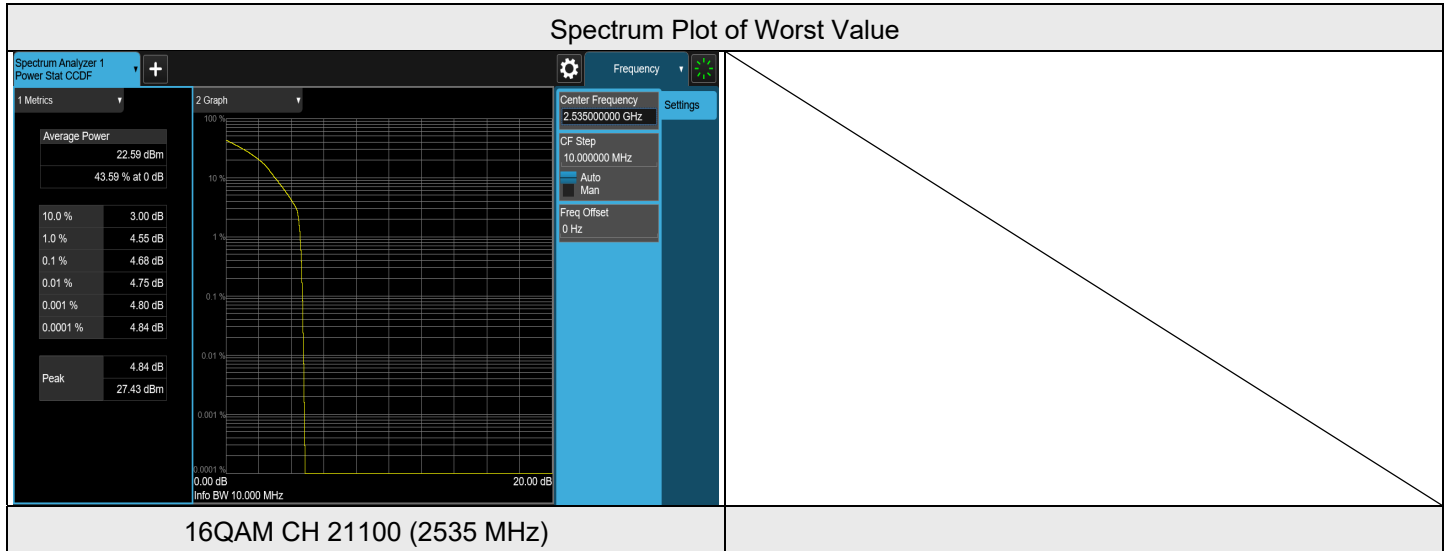
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20775	2502.5	3.60	13	Pass
QPSK	21100	2535	3.81	13	Pass
QPSK	21425	2567.5	3.64	13	Pass
16QAM	20775	2502.5	4.52	13	Pass
16QAM	21100	2535	4.73	13	Pass
16QAM	21425	2567.5	4.77	13	Pass





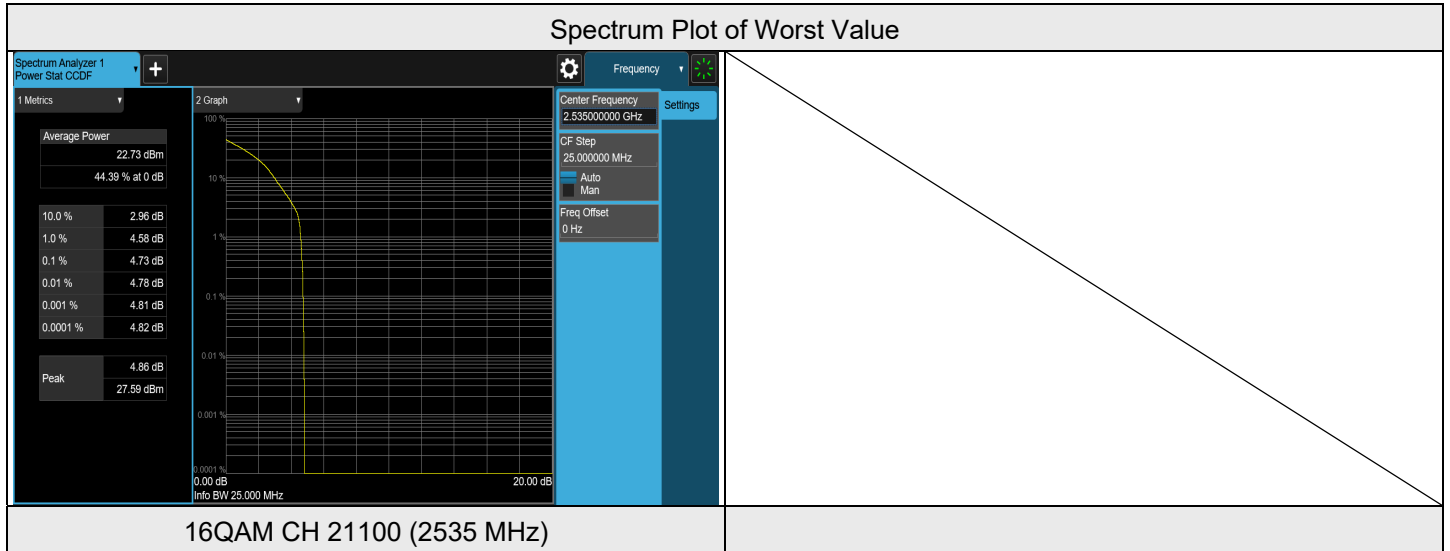
LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20800	2505	3.57	13	Pass
QPSK	21100	2535	3.77	13	Pass
QPSK	21400	2565	3.55	13	Pass
16QAM	20800	2505	4.51	13	Pass
16QAM	21100	2535	4.68	13	Pass
16QAM	21400	2565	4.52	13	Pass



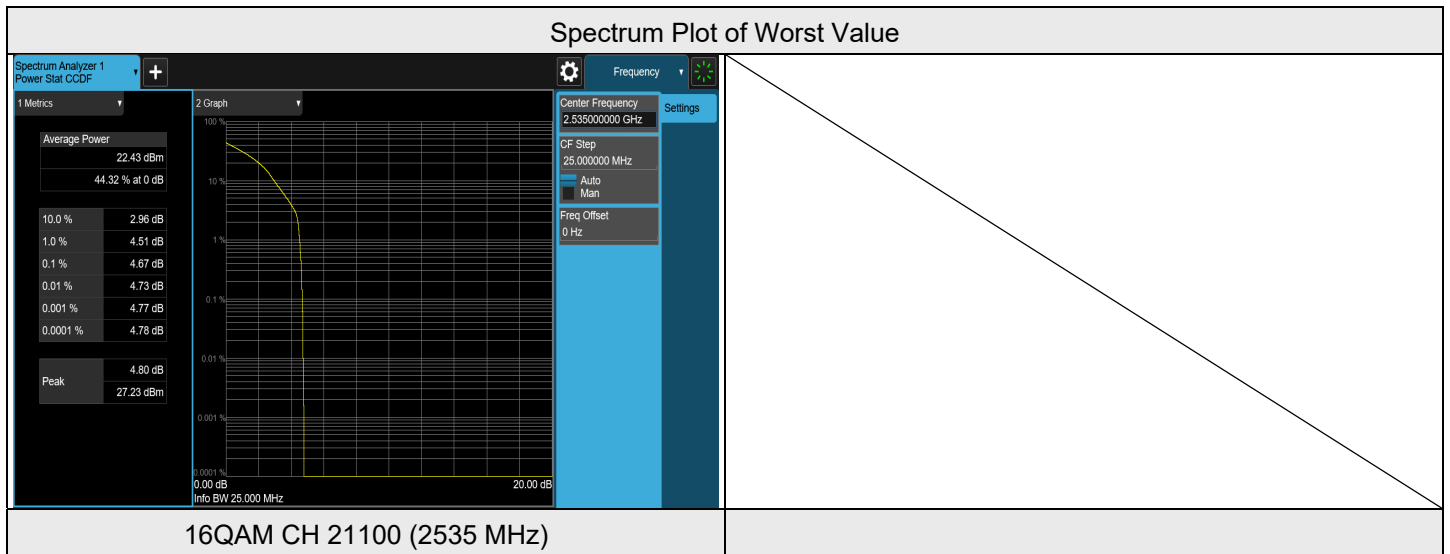
LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20825	2507.5	3.53	13	Pass
QPSK	21100	2535	3.68	13	Pass
QPSK	21375	2562.5	3.42	13	Pass
16QAM	20825	2507.5	4.52	13	Pass
16QAM	21100	2535	4.73	13	Pass
16QAM	21375	2562.5	4.41	13	Pass



LTE Band 7, Channel Bandwidth: 20 MHz

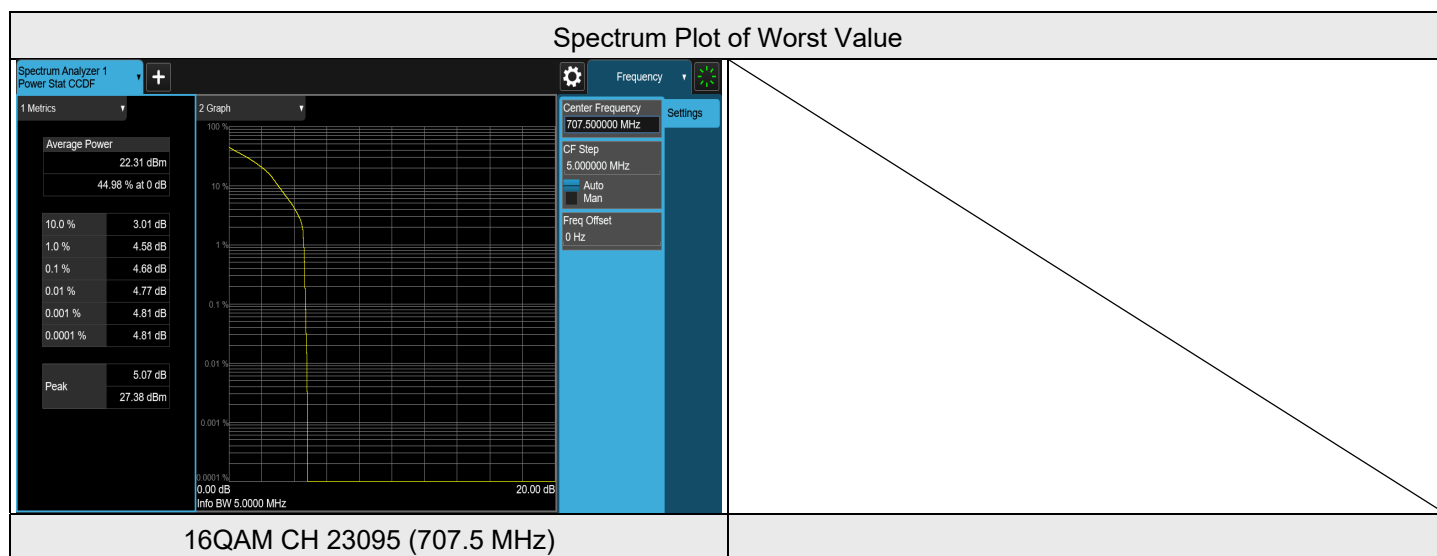
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	20850	2510	3.50	13	Pass
QPSK	21100	2535	3.66	13	Pass
QPSK	21350	2560	3.39	13	Pass
16QAM	20850	2510	4.49	13	Pass
16QAM	21100	2535	4.67	13	Pass
16QAM	21350	2560	4.43	13	Pass



7.3.5 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

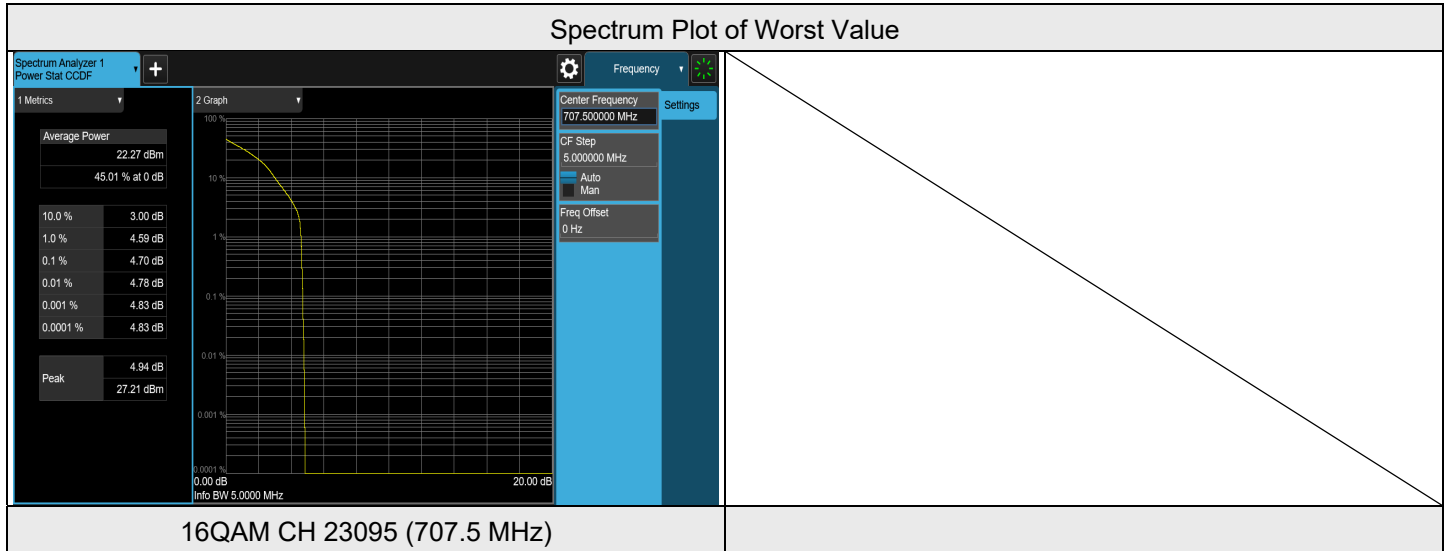
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23017	699.7	3.08	13	Pass
QPSK	23095	707.5	3.66	13	Pass
QPSK	23173	715.3	3.46	13	Pass
16QAM	23017	699.7	4.19	13	Pass
16QAM	23095	707.5	4.68	13	Pass
16QAM	23173	715.3	4.44	13	Pass





LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23025	700.5	3.12	13	Pass
QPSK	23095	707.5	3.70	13	Pass
QPSK	23165	714.5	3.40	13	Pass
16QAM	23025	700.5	4.22	13	Pass
16QAM	23095	707.5	4.70	13	Pass
16QAM	23165	714.5	4.43	13	Pass

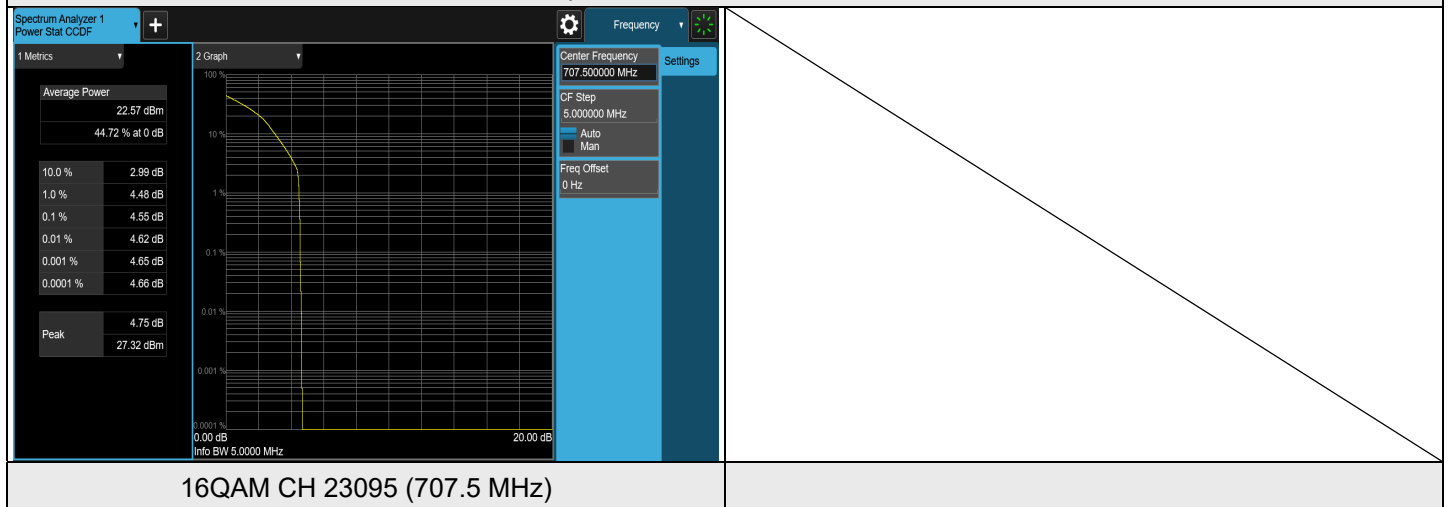




LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23035	701.5	3.16	13	Pass
QPSK	23095	707.5	3.62	13	Pass
QPSK	23155	713.5	3.28	13	Pass
16QAM	23035	701.5	4.18	13	Pass
16QAM	23095	707.5	4.55	13	Pass
16QAM	23155	713.5	4.26	13	Pass

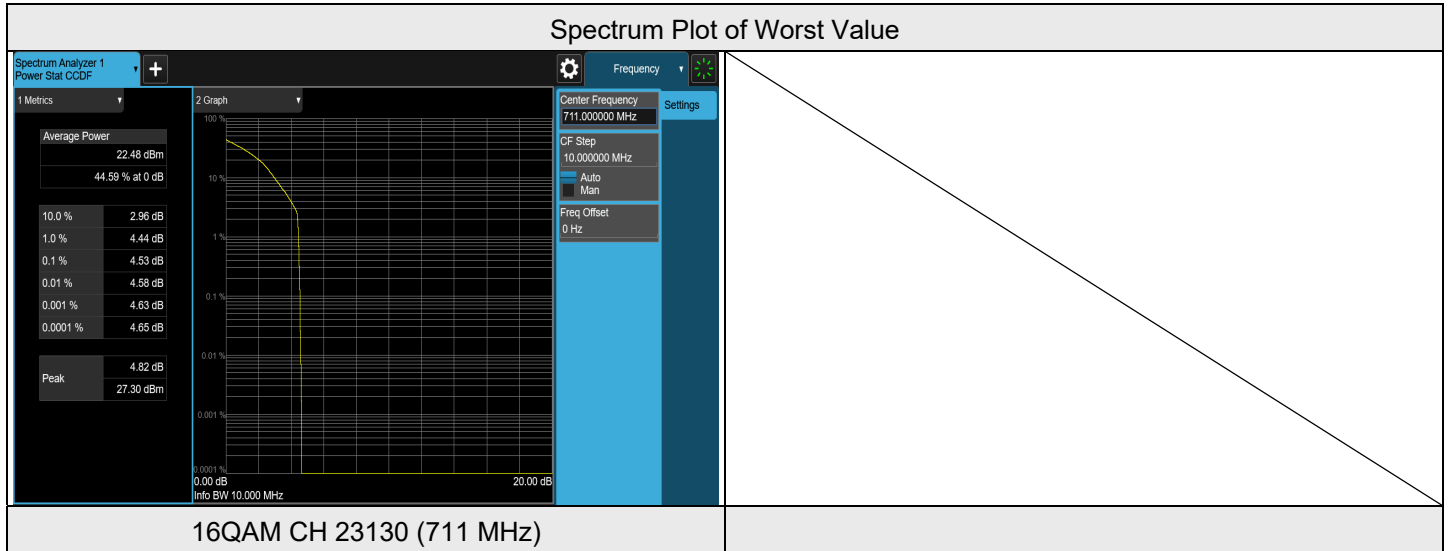
Spectrum Plot of Worst Value





LTE Band 12, Channel Bandwidth: 10 MHz

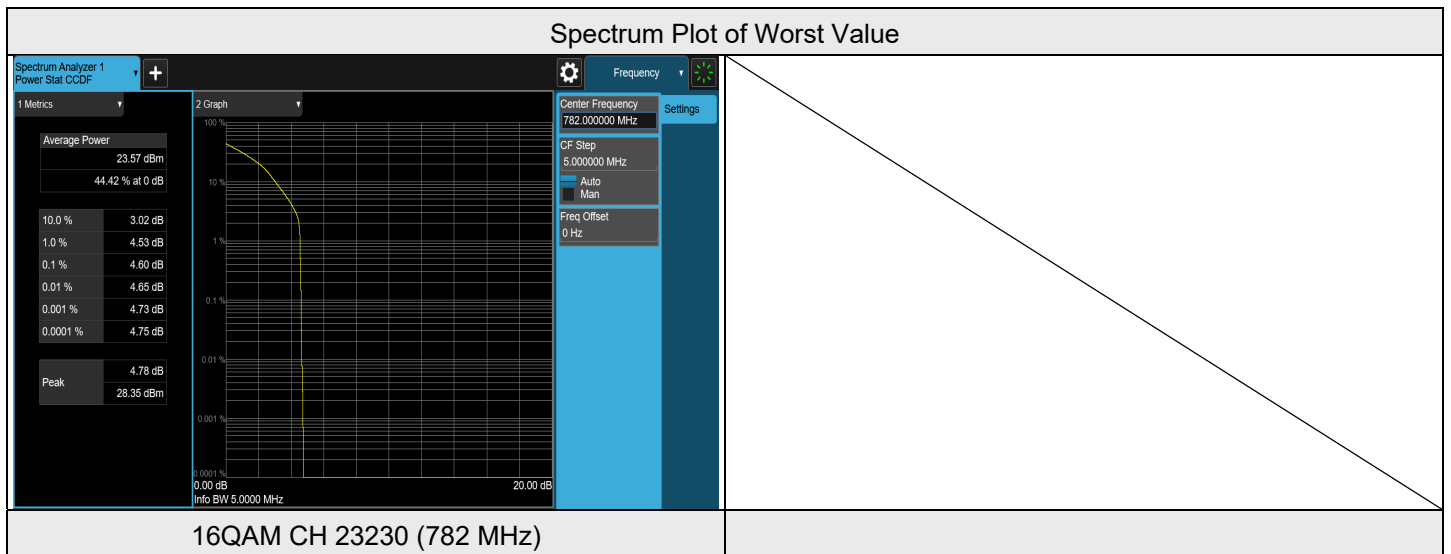
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23060	704	3.18	13	Pass
QPSK	23095	707.5	3.58	13	Pass
QPSK	23130	711	3.60	13	Pass
16QAM	23060	704	4.20	13	Pass
16QAM	23095	707.5	4.52	13	Pass
16QAM	23130	711	4.53	13	Pass



7.3.6 LTE Band 13

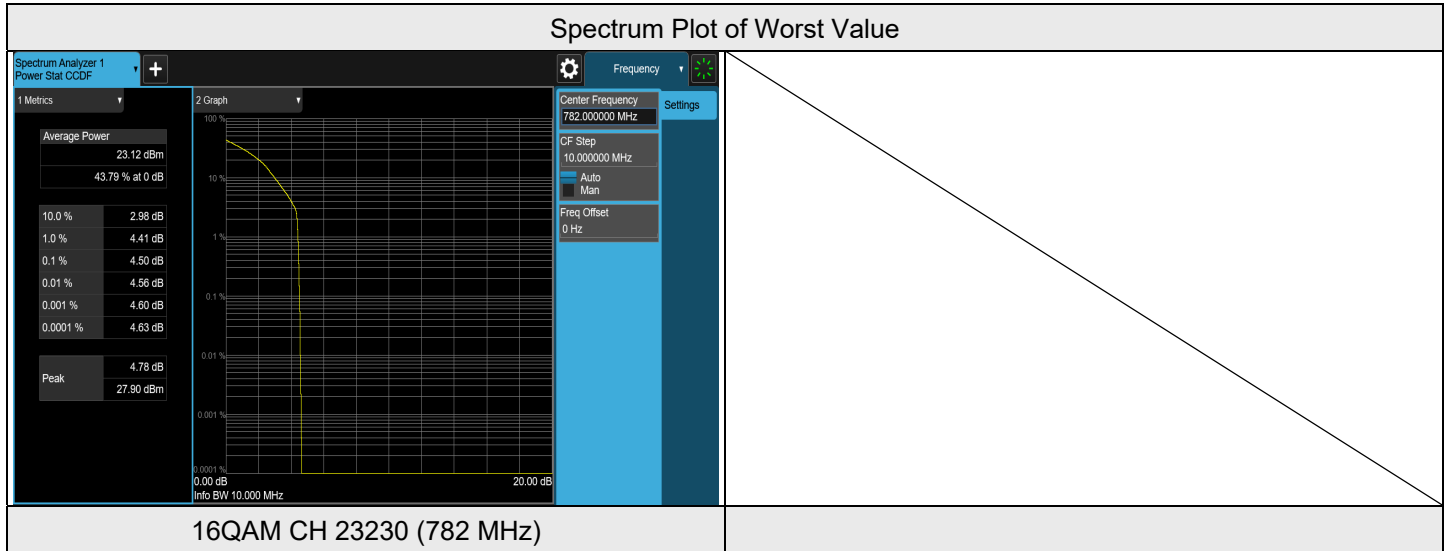
LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23205	779.5	3.55	13	Pass
QPSK	23230	782	3.65	13	Pass
QPSK	23255	784.5	3.46	13	Pass
16QAM	23205	779.5	4.50	13	Pass
16QAM	23230	782	4.60	13	Pass
16QAM	23255	784.5	4.37	13	Pass



LTE Band 13, Channel Bandwidth: 10 MHz

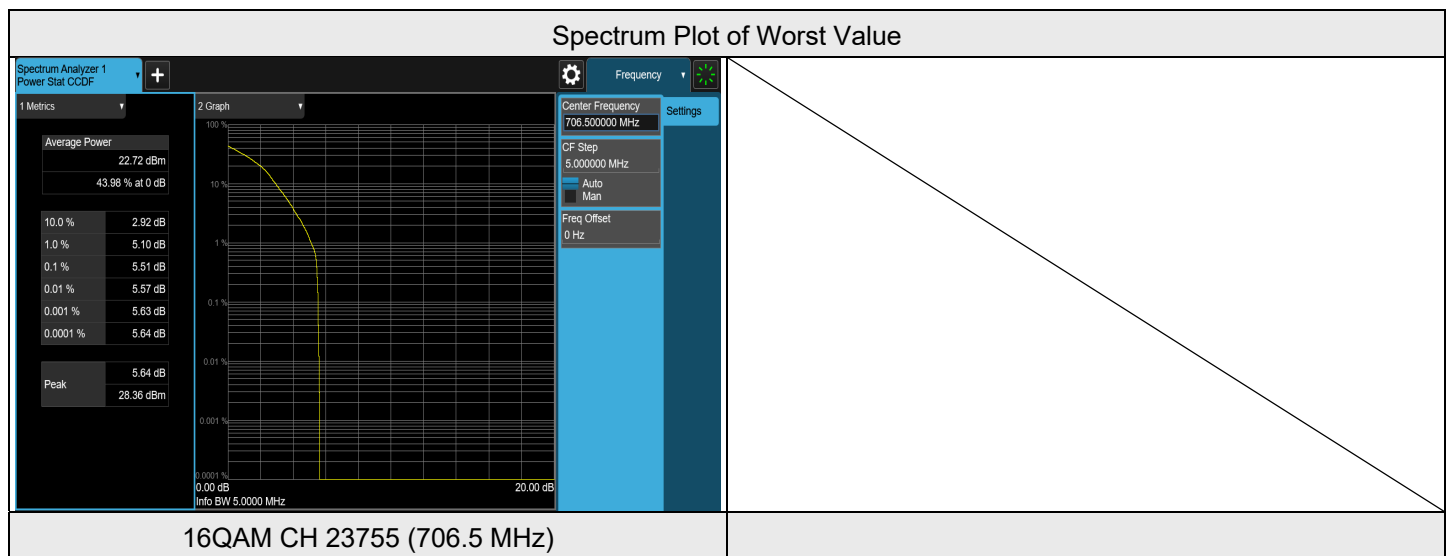
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23230	782	3.62	13	Pass
16QAM	23230	782	4.50	13	Pass



7.3.7 LTE Band 17

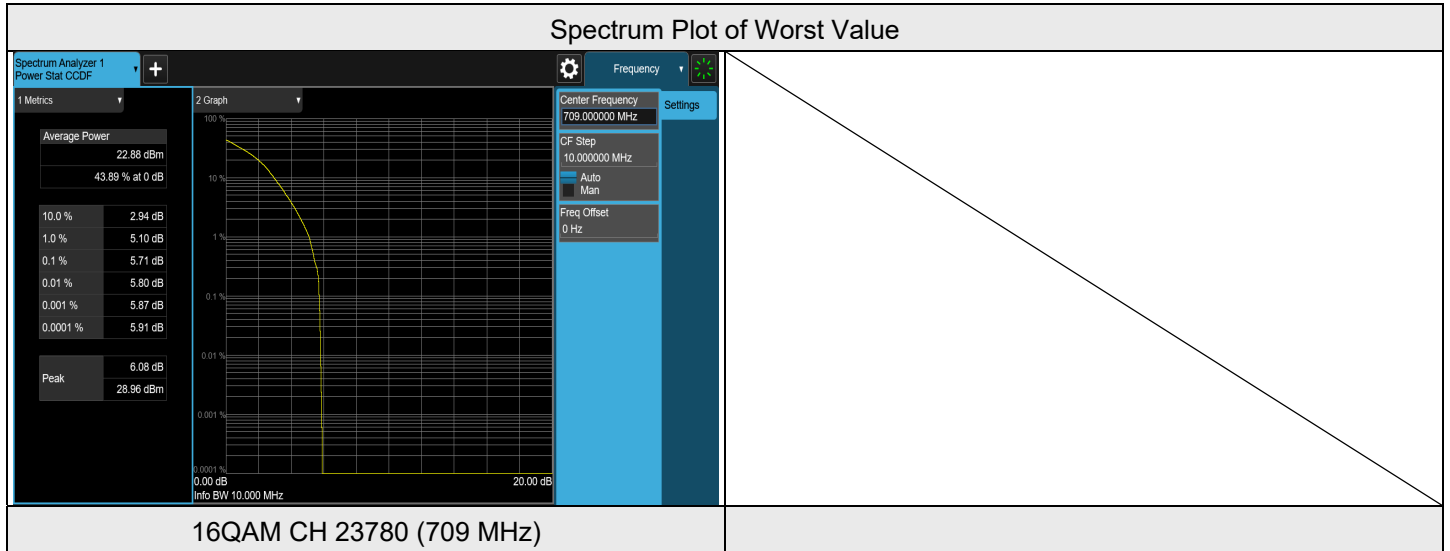
LTE Band 17, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23755	706.5	4.60	13	Pass
QPSK	23790	710	4.32	13	Pass
QPSK	23825	713.5	3.79	13	Pass
16QAM	23755	706.5	5.51	13	Pass
16QAM	23790	710	5.24	13	Pass
16QAM	23825	713.5	4.64	13	Pass



LTE Band 17, Channel Bandwidth: 10 MHz

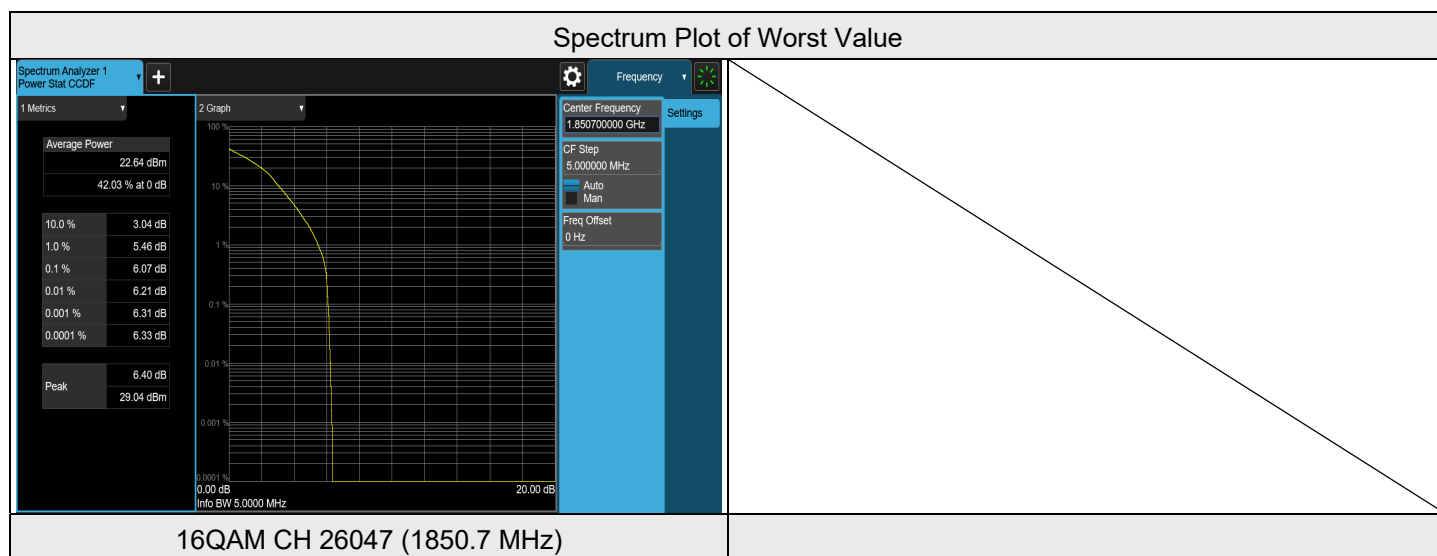
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	23780	709	4.56	13	Pass
QPSK	23790	710	4.55	13	Pass
QPSK	23800	711	4.55	13	Pass
16QAM	23780	709	5.71	13	Pass
16QAM	23790	710	5.57	13	Pass
16QAM	23800	711	5.53	13	Pass



7.3.8 LTE Band 25

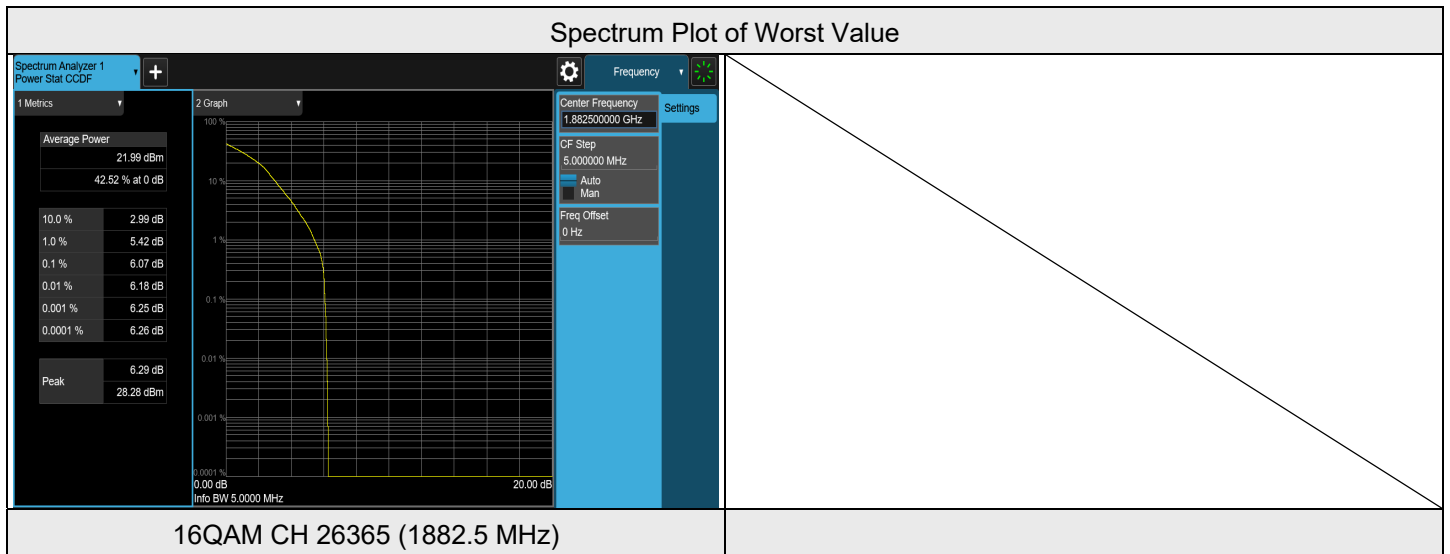
LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26047	1850.7	5.09	13	Pass
QPSK	26365	1882.5	5.12	13	Pass
QPSK	26683	1914.3	4.83	13	Pass
16QAM	26047	1850.7	6.07	13	Pass
16QAM	26365	1882.5	6.07	13	Pass
16QAM	26683	1914.3	5.92	13	Pass



LTE Band 25, Channel Bandwidth: 3 MHz

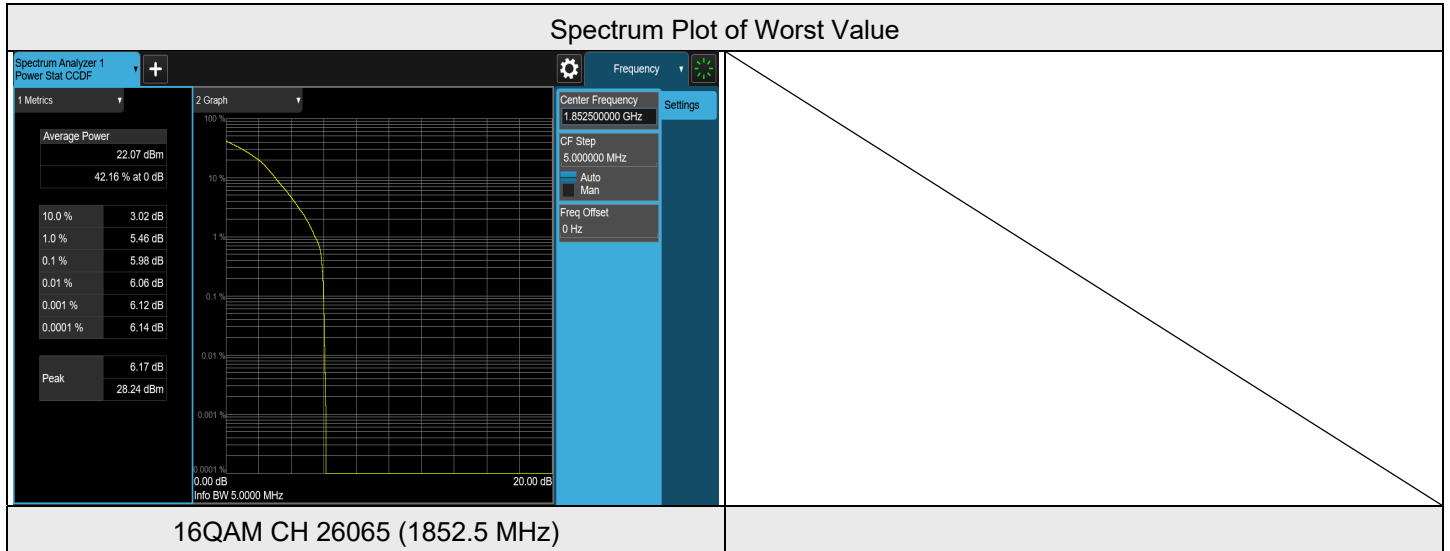
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26055	1851.5	5.05	13	Pass
QPSK	26365	1882.5	5.11	13	Pass
QPSK	26675	1913.5	4.87	13	Pass
16QAM	26055	1851.5	6.06	13	Pass
16QAM	26365	1882.5	6.07	13	Pass
16QAM	26675	1913.5	5.83	13	Pass





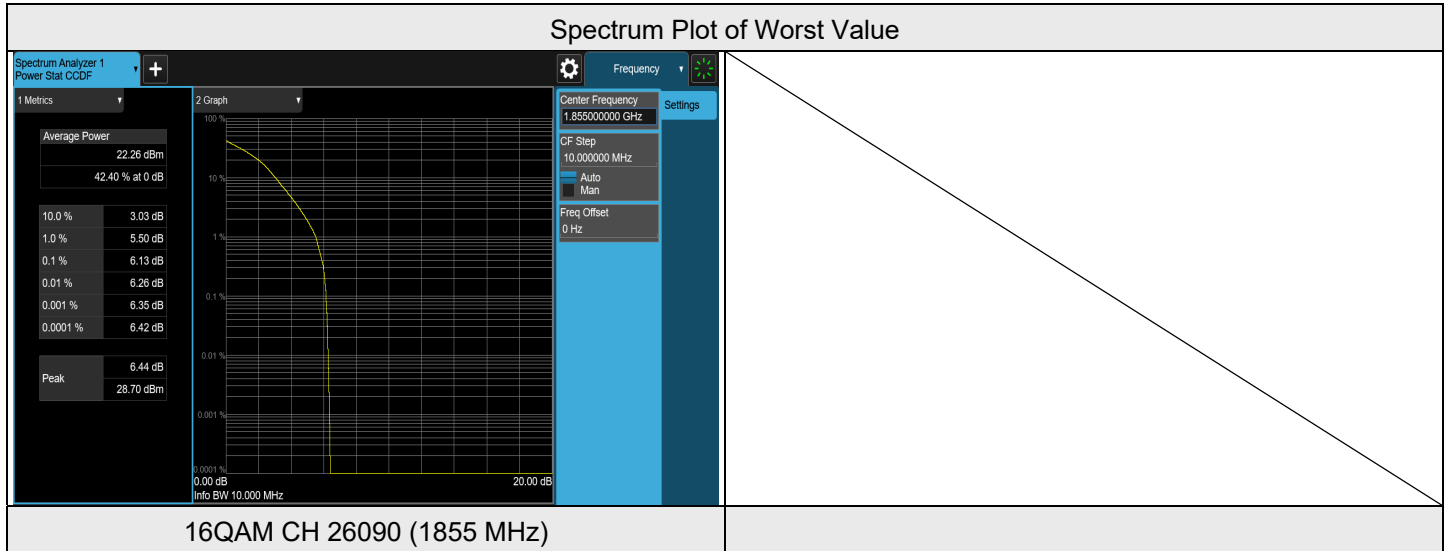
LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26065	1852.5	5.00	13	Pass
QPSK	26365	1882.5	5.04	13	Pass
QPSK	26665	1912.5	4.86	13	Pass
16QAM	26065	1852.5	5.98	13	Pass
16QAM	26365	1882.5	5.97	13	Pass
16QAM	26665	1912.5	5.86	13	Pass



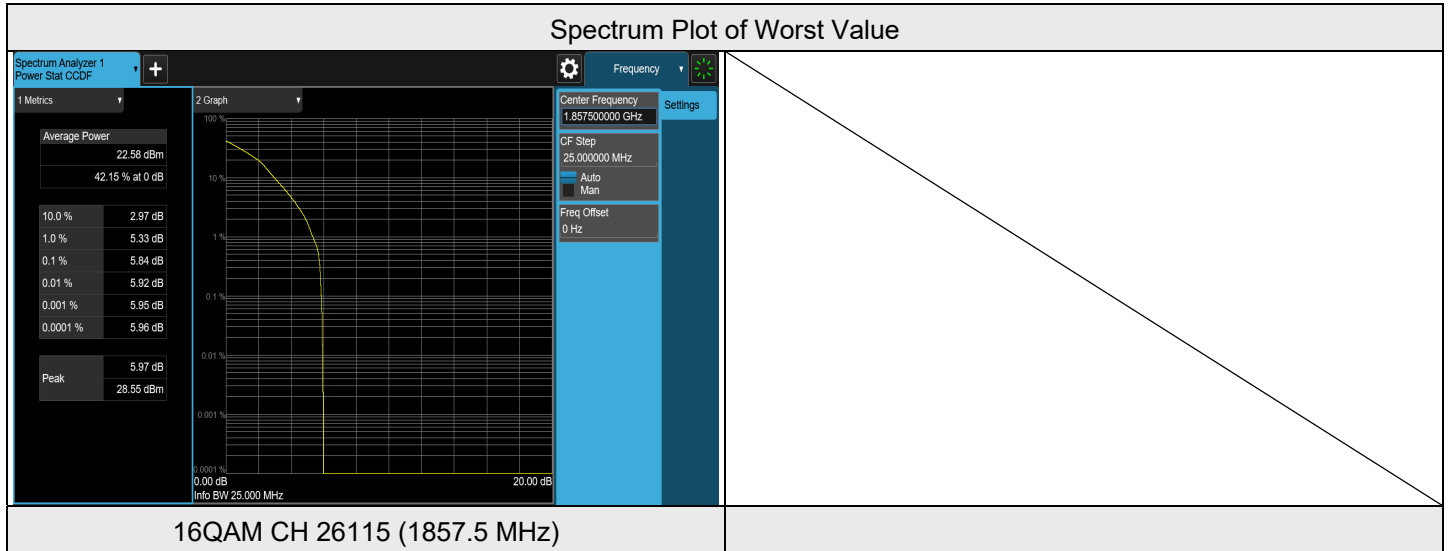
LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26090	1855	4.99	13	Pass
QPSK	26365	1882.5	5.06	13	Pass
QPSK	26640	1910	4.99	13	Pass
16QAM	26090	1855	6.13	13	Pass
16QAM	26365	1882.5	6.04	13	Pass
16QAM	26640	1910	5.98	13	Pass



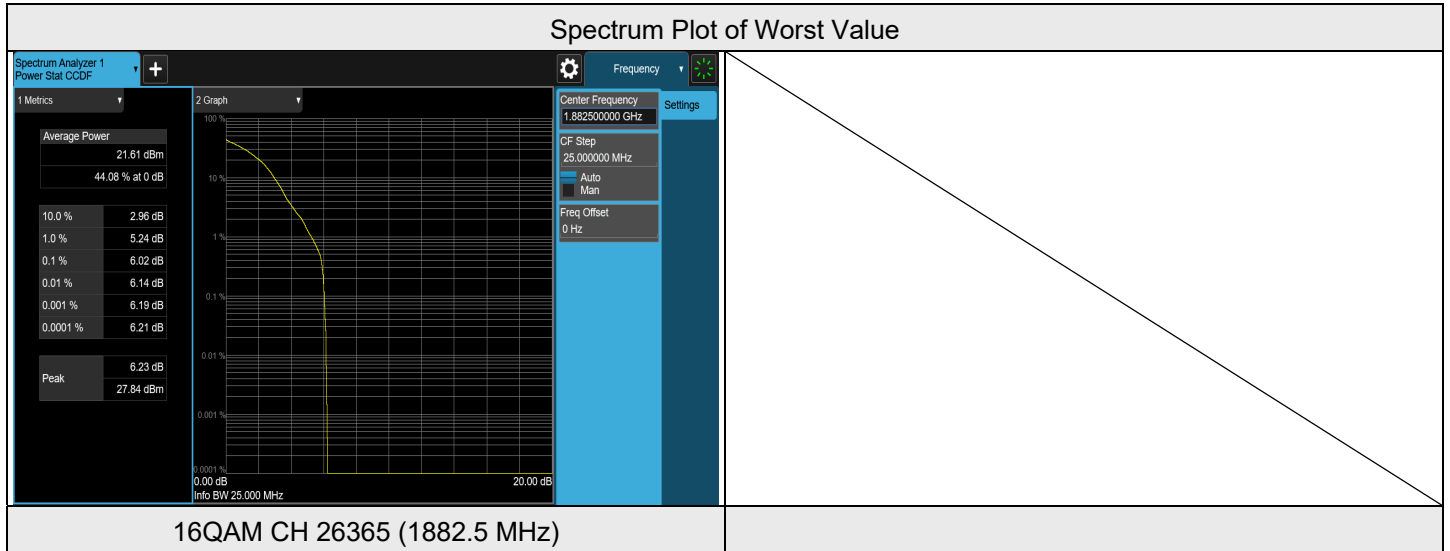
LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26115	1857.5	4.96	13	Pass
QPSK	26365	1882.5	5.05	13	Pass
QPSK	26615	1907.5	5.02	13	Pass
16QAM	26115	1857.5	5.84	13	Pass
16QAM	26365	1882.5	5.80	13	Pass
16QAM	26615	1907.5	5.73	13	Pass



LTE Band 25, Channel Bandwidth: 20 MHz

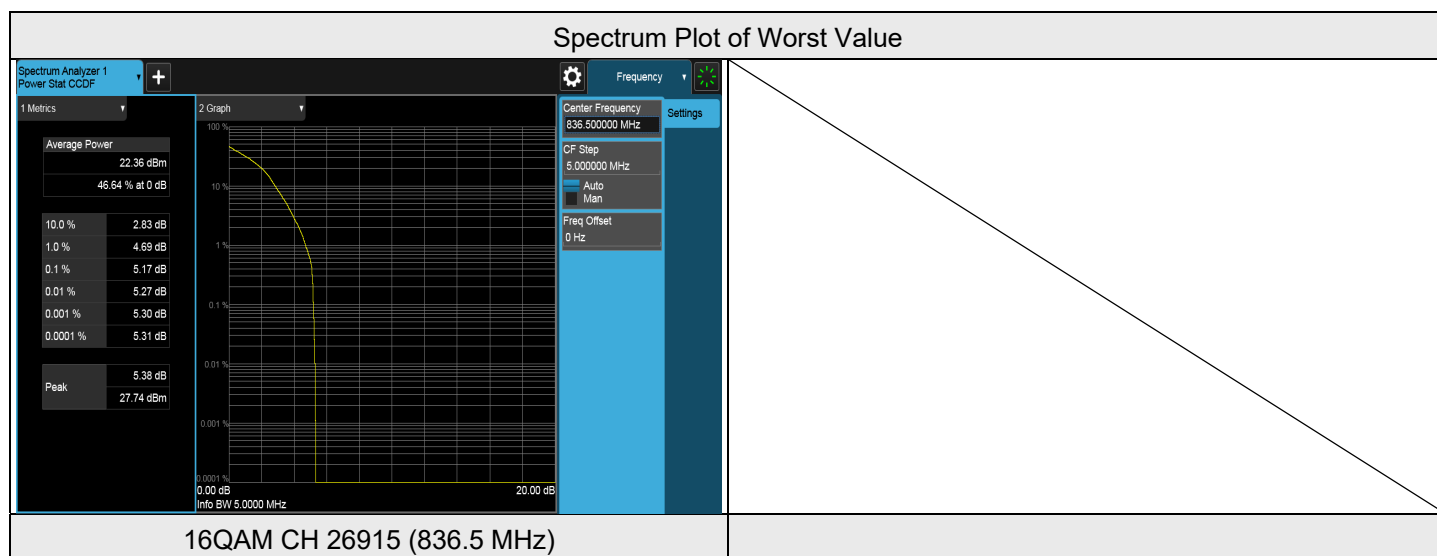
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26140	1860	4.96	13	Pass
QPSK	26365	1882.5	5.01	13	Pass
QPSK	26590	1905	4.89	13	Pass
16QAM	26140	1860	5.91	13	Pass
16QAM	26365	1882.5	6.02	13	Pass
16QAM	26590	1905	5.82	13	Pass



7.3.9 LTE Band 26 (Part 22)

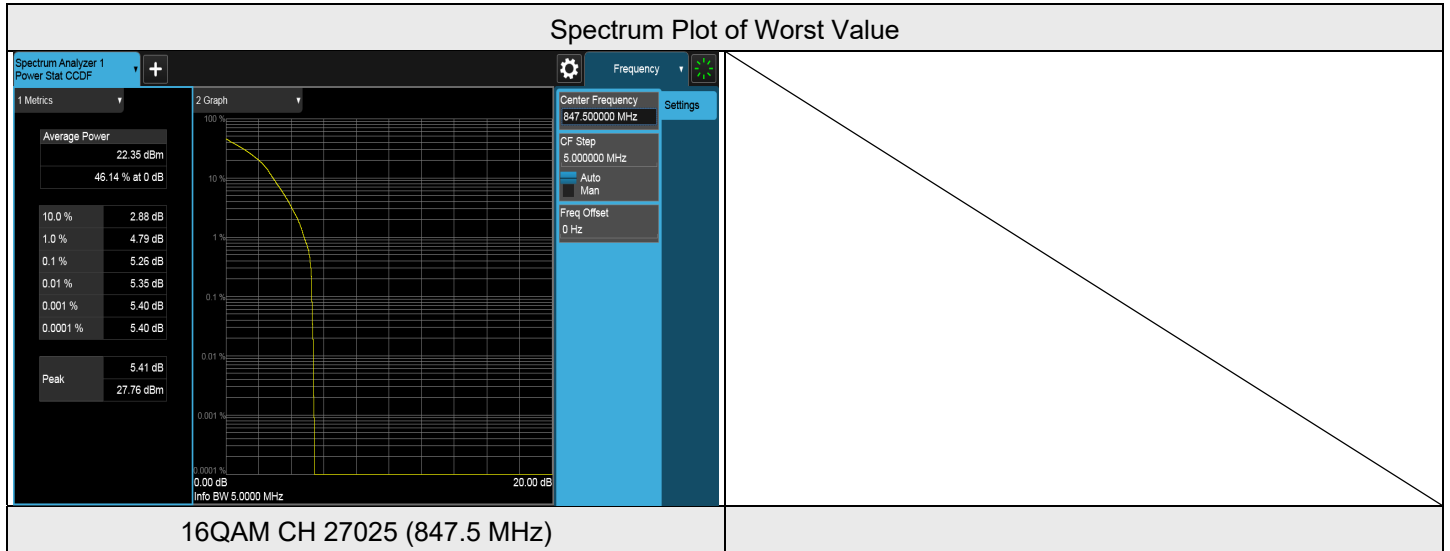
LTE Band 26, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26797	824.7	4.18	13	Pass
QPSK	26915	836.5	4.17	13	Pass
QPSK	27033	848.3	3.93	13	Pass
16QAM	26797	824.7	5.06	13	Pass
16QAM	26915	836.5	5.17	13	Pass
16QAM	27033	848.3	4.83	13	Pass



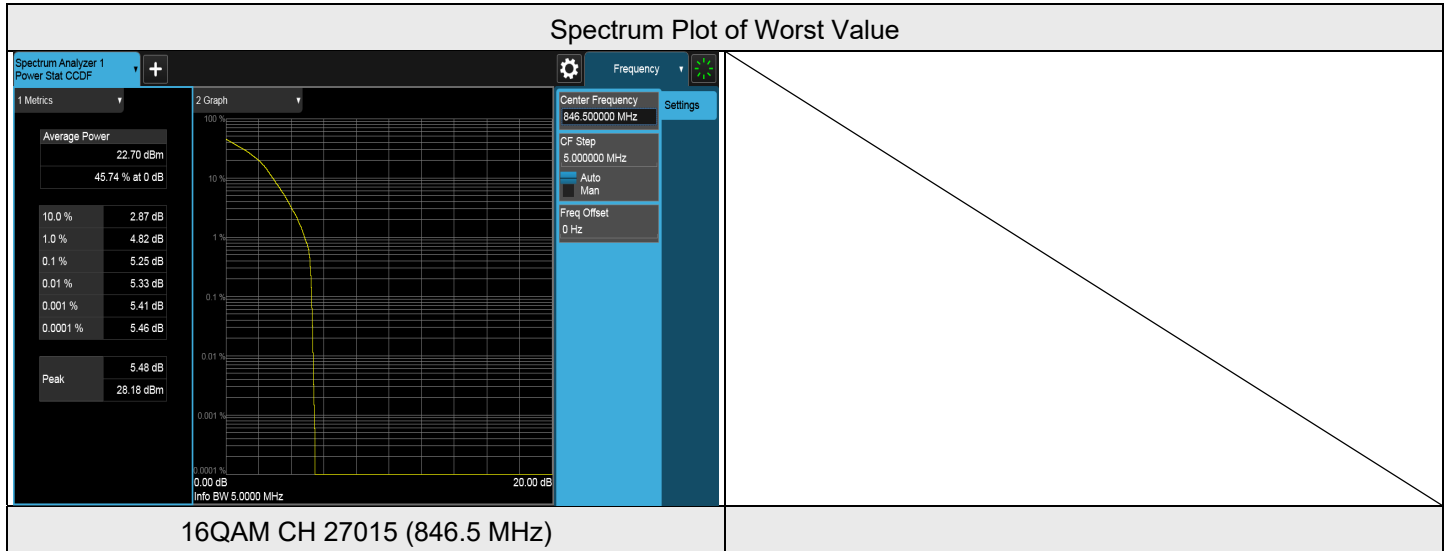
LTE Band 26, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26805	825.5	4.14	13	Pass
QPSK	26915	836.5	4.20	13	Pass
QPSK	27025	847.5	4.26	13	Pass
16QAM	26805	825.5	5.12	13	Pass
16QAM	26915	836.5	5.18	13	Pass
16QAM	27025	847.5	5.26	13	Pass



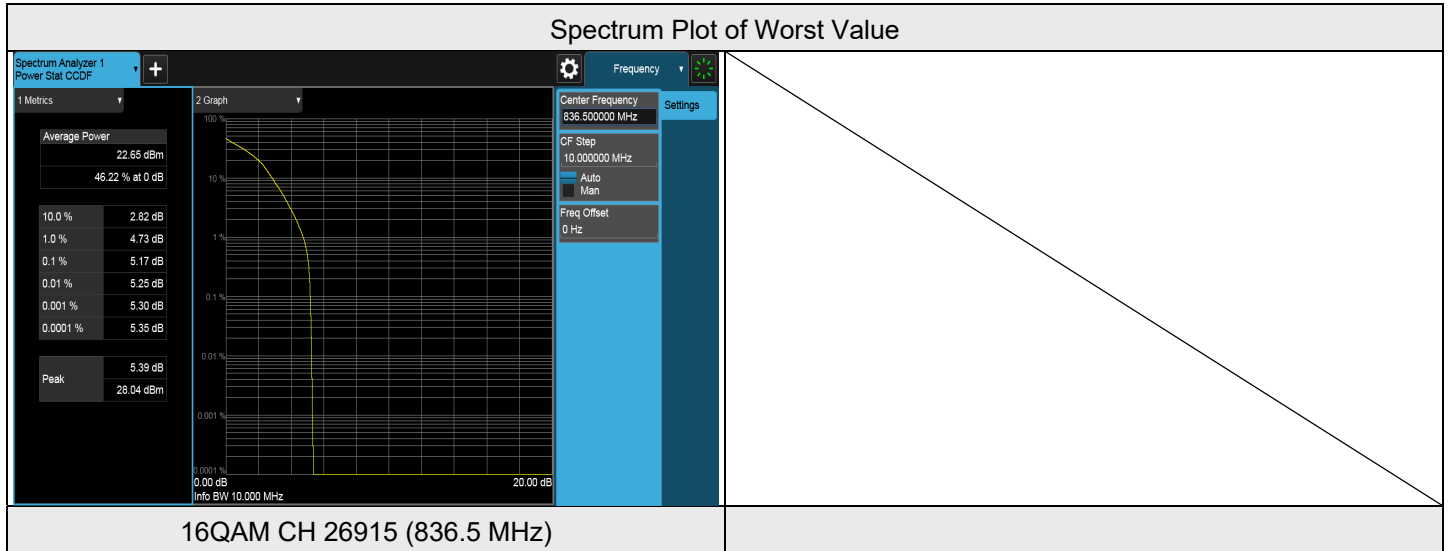
LTE Band 26, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26815	826.5	4.10	13	Pass
QPSK	26915	836.5	4.17	13	Pass
QPSK	27015	846.5	4.31	13	Pass
16QAM	26815	826.5	5.09	13	Pass
16QAM	26915	836.5	5.15	13	Pass
16QAM	27015	846.5	5.25	13	Pass



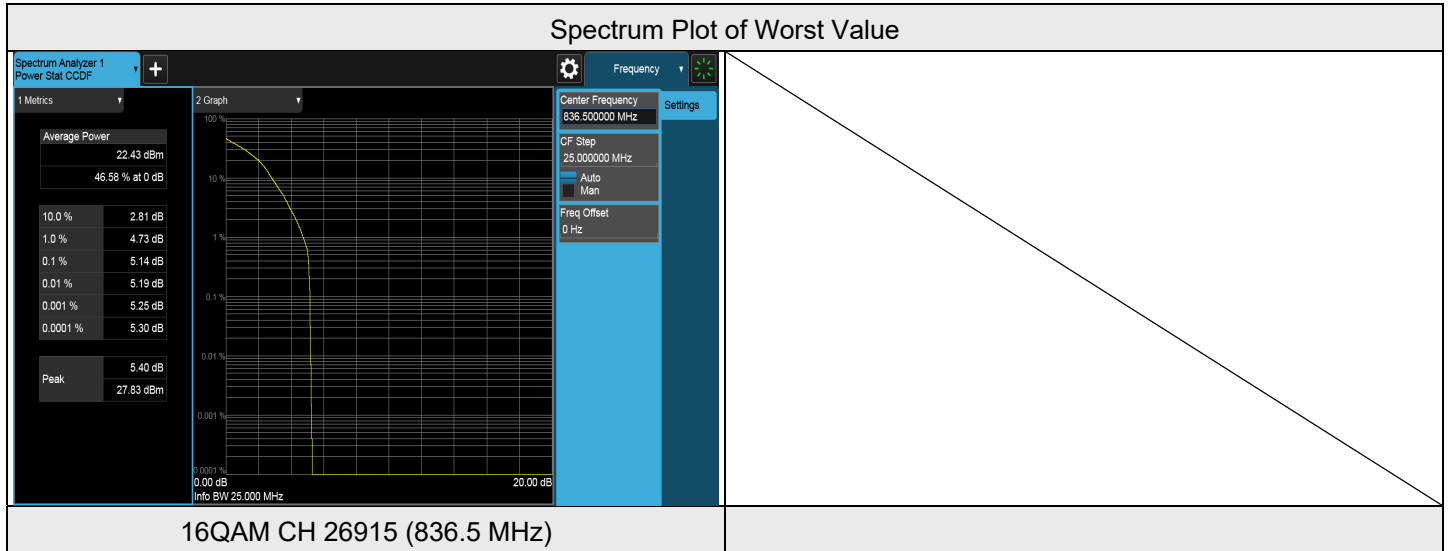
LTE Band 26, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26840	829	4.06	13	Pass
QPSK	26915	836.5	4.19	13	Pass
QPSK	26990	844	4.24	13	Pass
16QAM	26840	829	5.06	13	Pass
16QAM	26915	836.5	5.17	13	Pass
16QAM	26990	844	5.15	13	Pass



LTE Band 26, Channel Bandwidth: 15 MHz

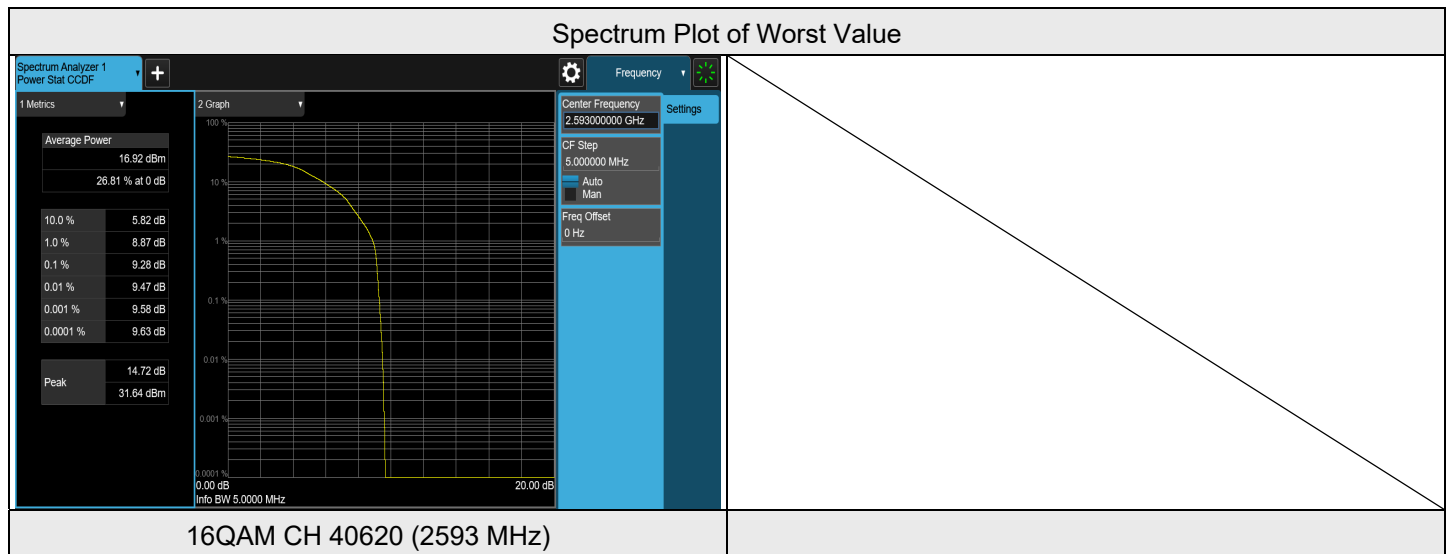
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	26865	831.5	4.13	13	Pass
QPSK	26915	836.5	4.17	13	Pass
QPSK	26965	841.5	4.19	13	Pass
16QAM	26865	831.5	5.06	13	Pass
16QAM	26915	836.5	5.14	13	Pass
16QAM	26965	841.5	5.11	13	Pass



7.3.10 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

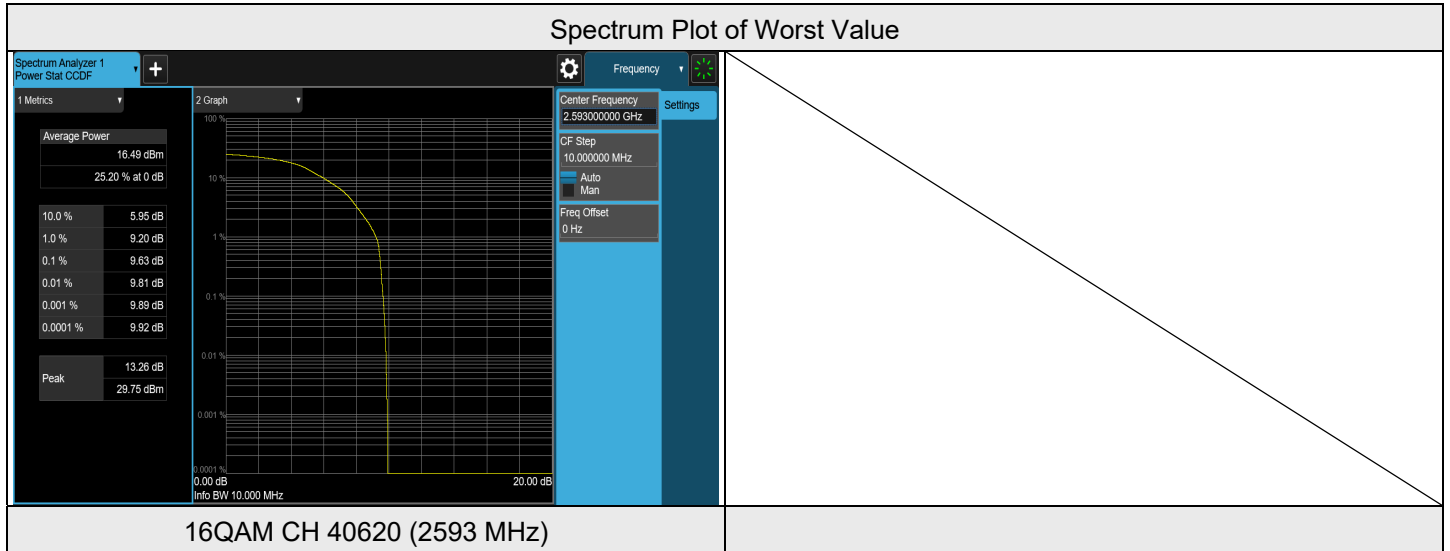
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	39675	2498.5	7.47	13	Pass
QPSK	40620	2593	7.40	13	Pass
QPSK	41565	2687.5	7.72	13	Pass
16QAM	39675	2498.5	8.18	13	Pass
16QAM	40620	2593	9.28	13	Pass
16QAM	41565	2687.5	8.10	13	Pass





LTE Band 41, Channel Bandwidth: 10 MHz

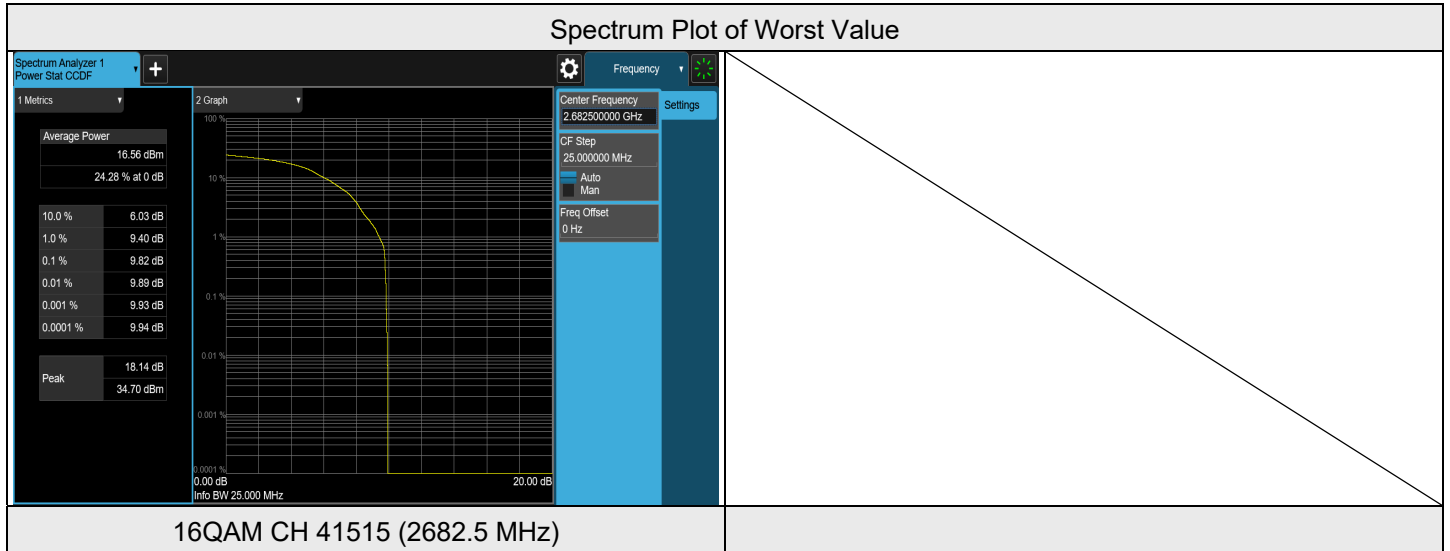
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	39700	2501	7.52	13	Pass
QPSK	40620	2593	8.11	13	Pass
QPSK	41540	2685	7.65	13	Pass
16QAM	39700	2501	8.25	13	Pass
16QAM	40620	2593	9.63	13	Pass
16QAM	41540	2685	8.34	13	Pass





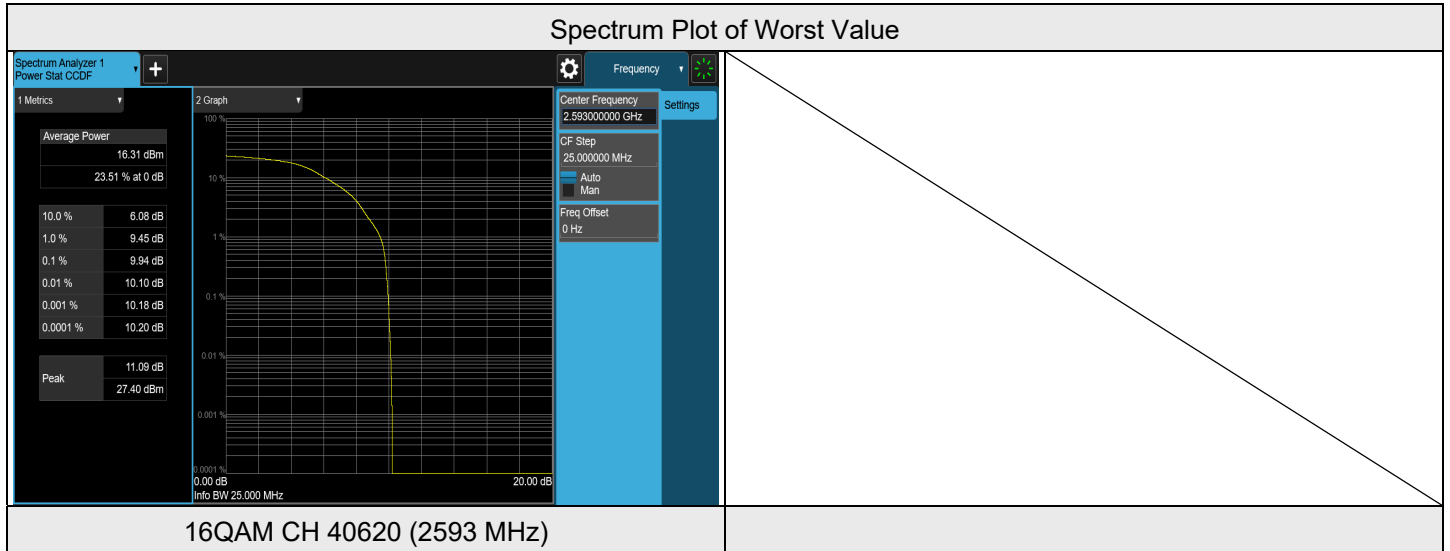
LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	39725	2503.5	7.02	13	Pass
QPSK	40620	2593	5.63	13	Pass
QPSK	41515	2682.5	6.40	13	Pass
16QAM	39725	2503.5	6.29	13	Pass
16QAM	40620	2593	9.13	13	Pass
16QAM	41515	2682.5	9.82	13	Pass



LTE Band 41, Channel Bandwidth: 20 MHz

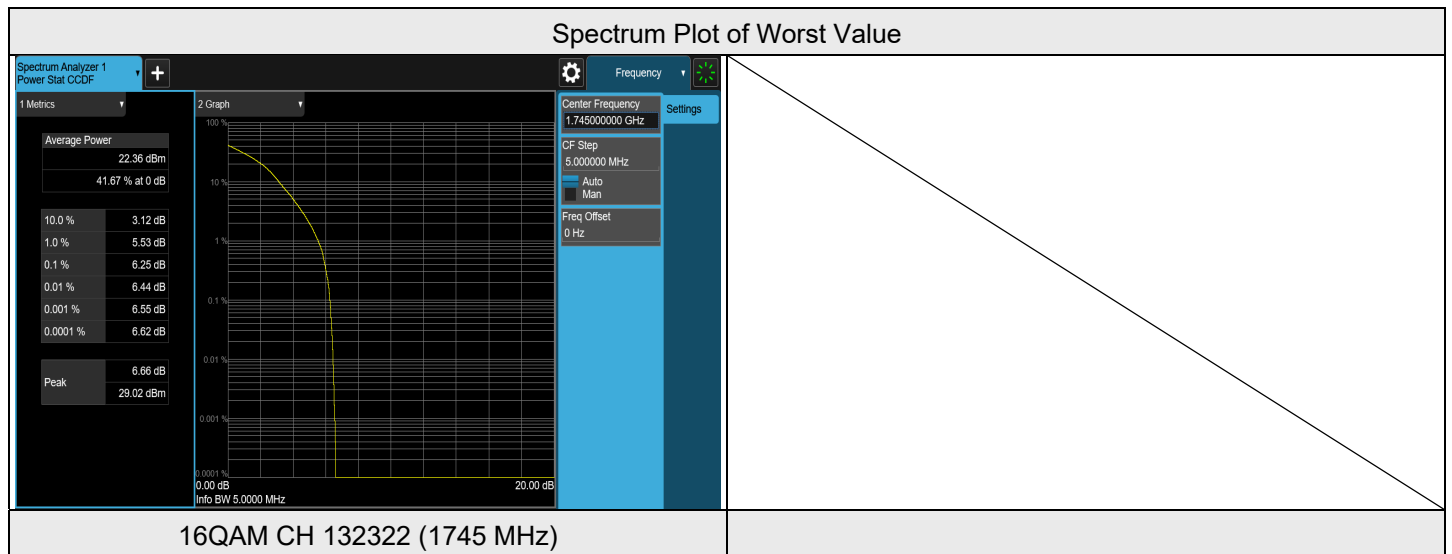
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	39750	2506	7.81	13	Pass
QPSK	40620	2593	7.55	13	Pass
QPSK	41490	2680	4.80	13	Pass
16QAM	39750	2506	7.95	13	Pass
16QAM	40620	2593	9.94	13	Pass
16QAM	41490	2680	8.96	13	Pass



7.3.11 LTE Band 66

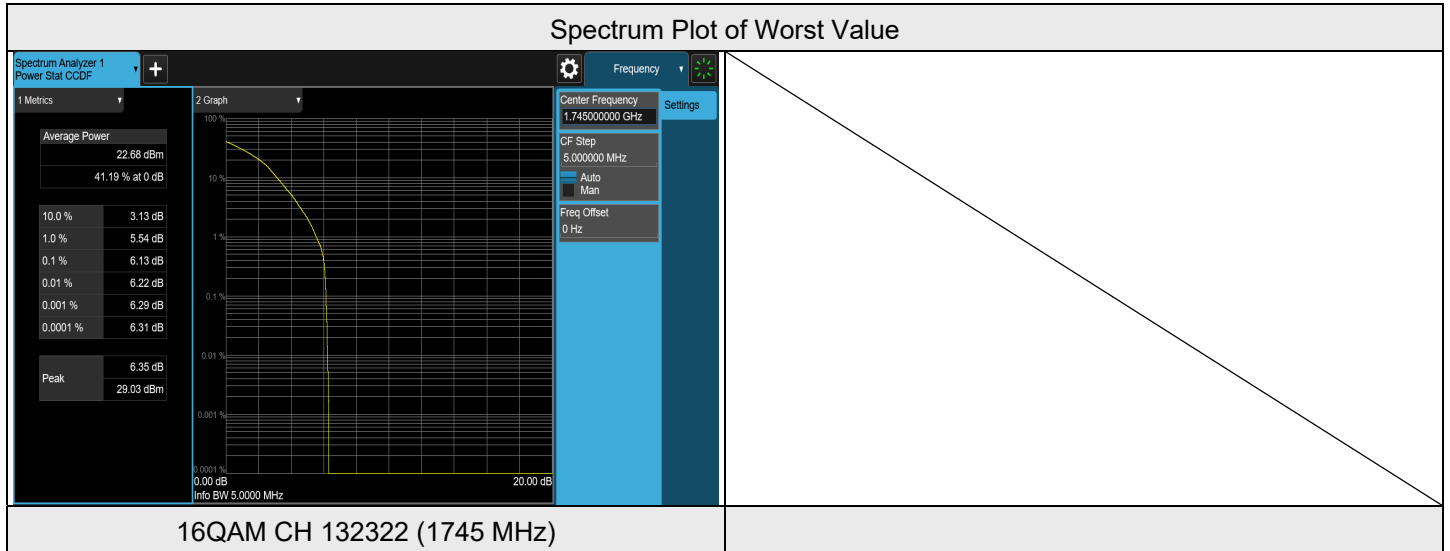
LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	131979	1710.7	5.08	13	Pass
QPSK	132322	1745	5.11	13	Pass
QPSK	132665	1779.3	4.92	13	Pass
16QAM	131979	1710.7	6.13	13	Pass
16QAM	132322	1745	6.25	13	Pass
16QAM	132665	1779.3	6.03	13	Pass



LTE Band 66, Channel Bandwidth: 3 MHz

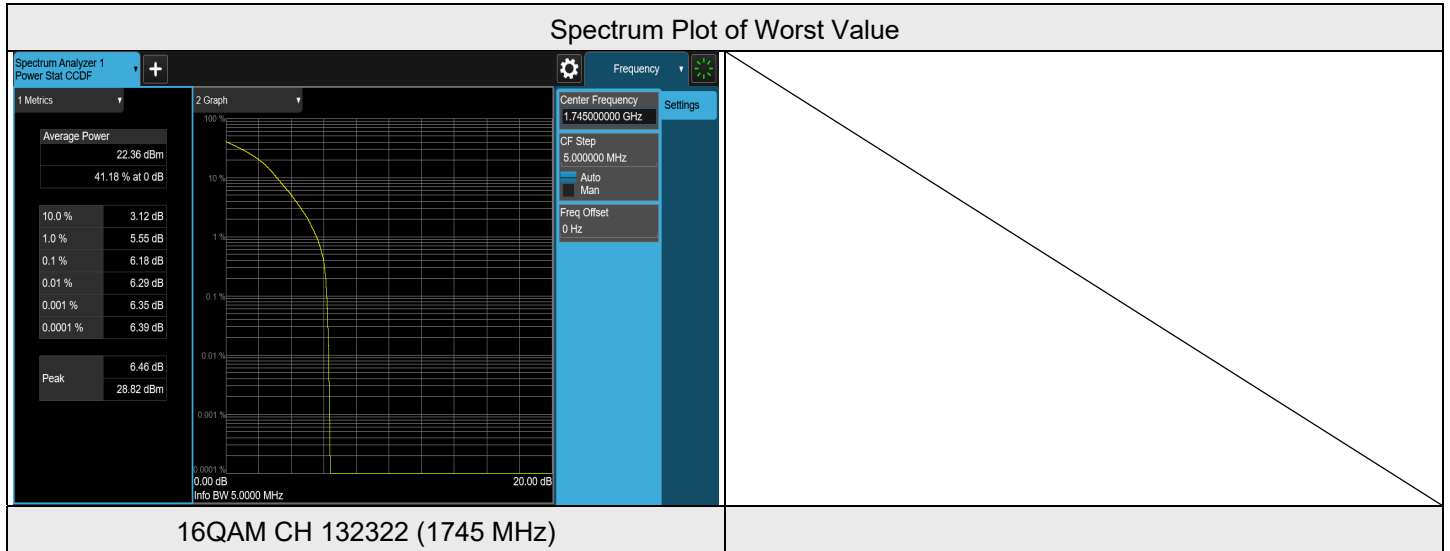
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	131987	1711.5	5.09	13	Pass
QPSK	132322	1745	5.15	13	Pass
QPSK	132657	1778.5	5.00	13	Pass
16QAM	131987	1711.5	6.07	13	Pass
16QAM	132322	1745	6.13	13	Pass
16QAM	132657	1778.5	5.99	13	Pass





LTE Band 66, Channel Bandwidth: 5 MHz

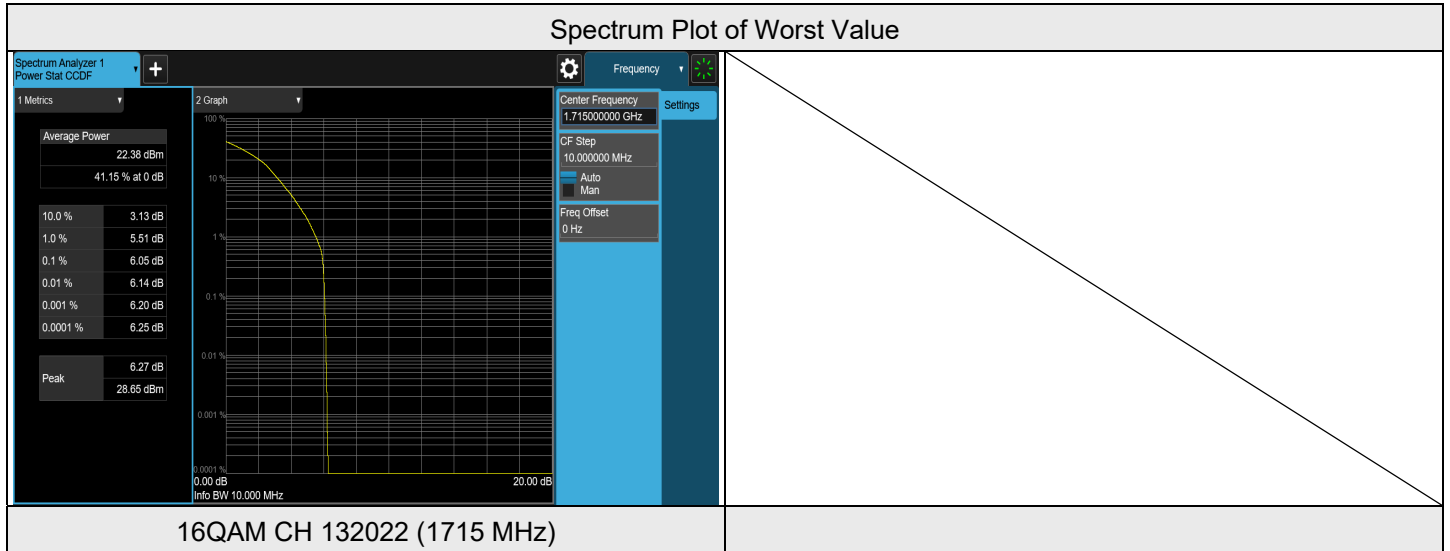
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	131997	1712.5	5.03	13	Pass
QPSK	132322	1745	5.09	13	Pass
QPSK	132647	1777.5	4.98	13	Pass
16QAM	131997	1712.5	6.03	13	Pass
16QAM	132322	1745	6.18	13	Pass
16QAM	132647	1777.5	5.99	13	Pass





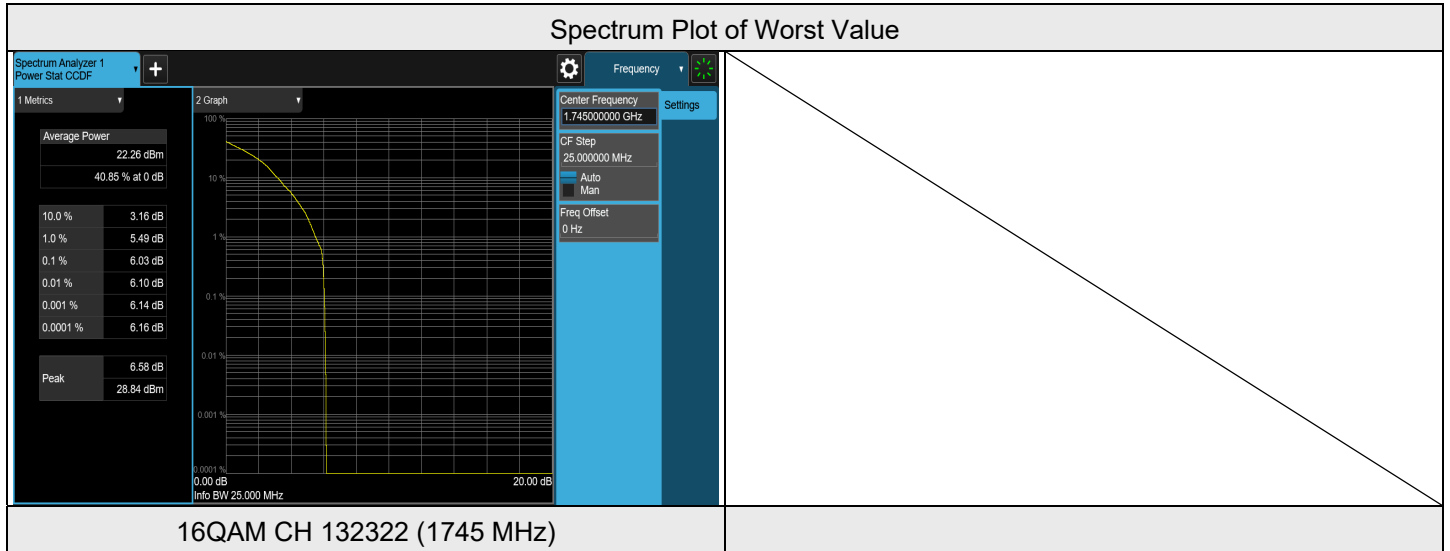
LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	132022	1715	5.00	13	Pass
QPSK	132322	1745	5.06	13	Pass
QPSK	132622	1775	4.83	13	Pass
16QAM	132022	1715	6.05	13	Pass
16QAM	132322	1745	6.04	13	Pass
16QAM	132622	1775	5.83	13	Pass



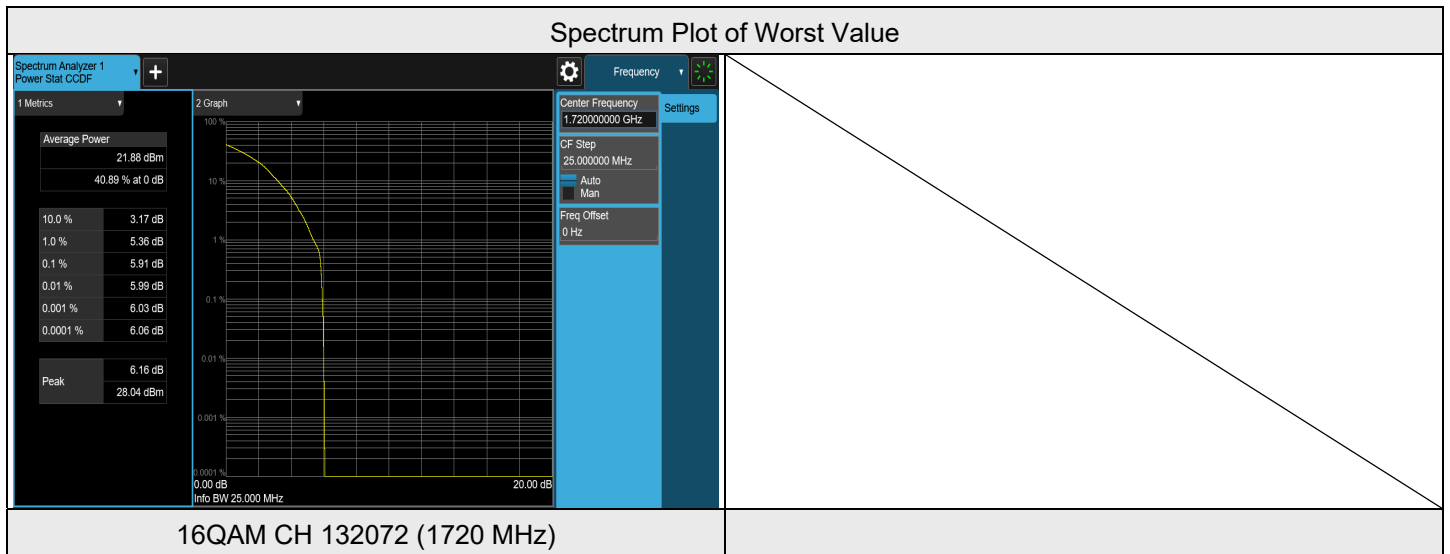
LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	132047	1717.5	5.03	13	Pass
QPSK	132322	1745	5.03	13	Pass
QPSK	132597	1772.5	4.42	13	Pass
16QAM	132047	1717.5	6.02	13	Pass
16QAM	132322	1745	6.03	13	Pass
16QAM	132597	1772.5	5.47	13	Pass



LTE Band 66, Channel Bandwidth: 20 MHz

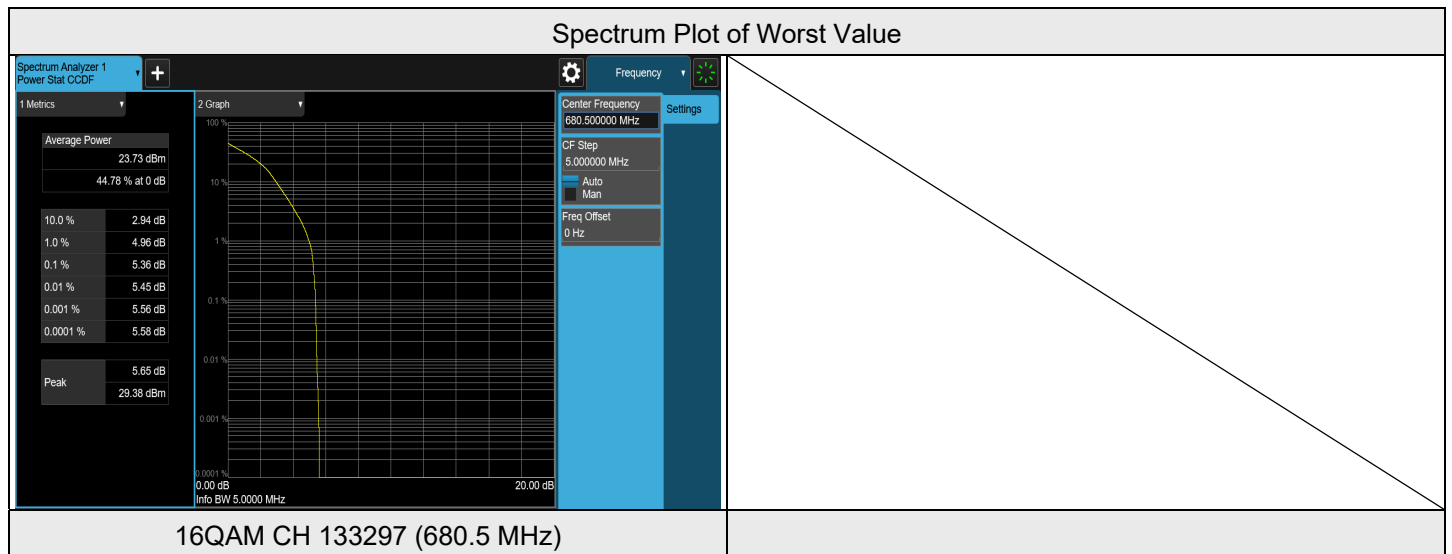
Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	132072	1720	5.02	13	Pass
QPSK	132322	1745	4.98	13	Pass
QPSK	132572	1770	4.34	13	Pass
16QAM	132072	1720	5.91	13	Pass
16QAM	132322	1745	5.88	13	Pass
16QAM	132572	1770	5.04	13	Pass



7.3.12 LTE Band 71

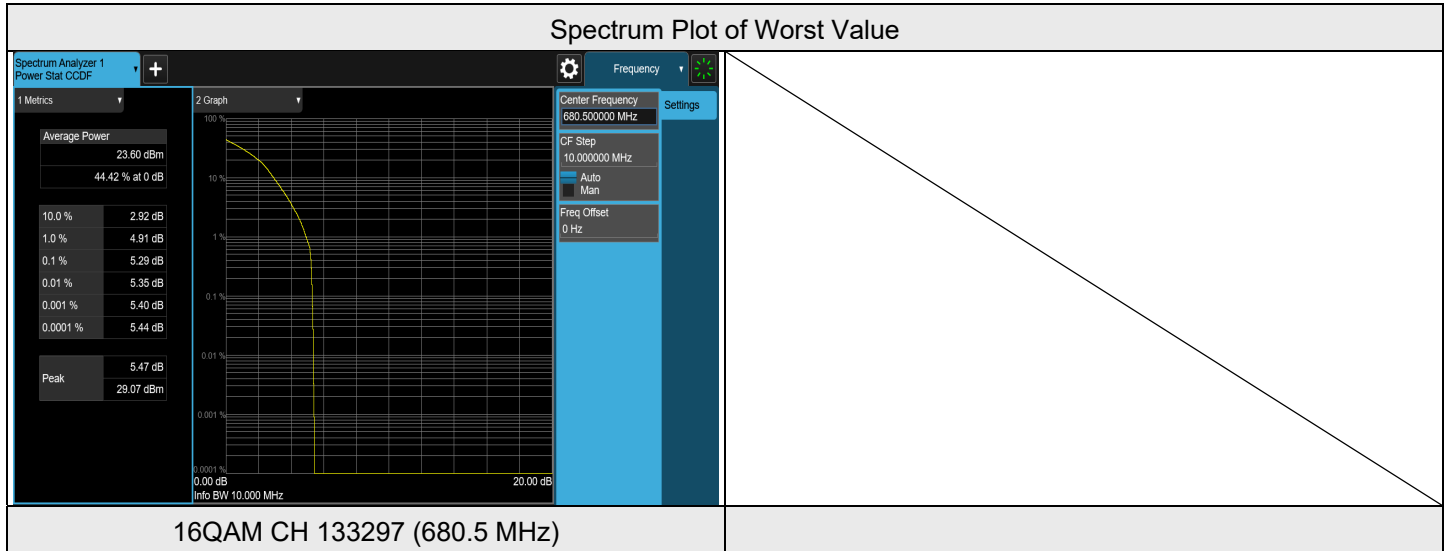
LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	133147	665.5	3.93	13	Pass
QPSK	133297	680.5	4.24	13	Pass
QPSK	133447	695.5	3.46	13	Pass
16QAM	133147	665.5	4.83	13	Pass
16QAM	133297	680.5	5.36	13	Pass
16QAM	133447	695.5	4.62	13	Pass



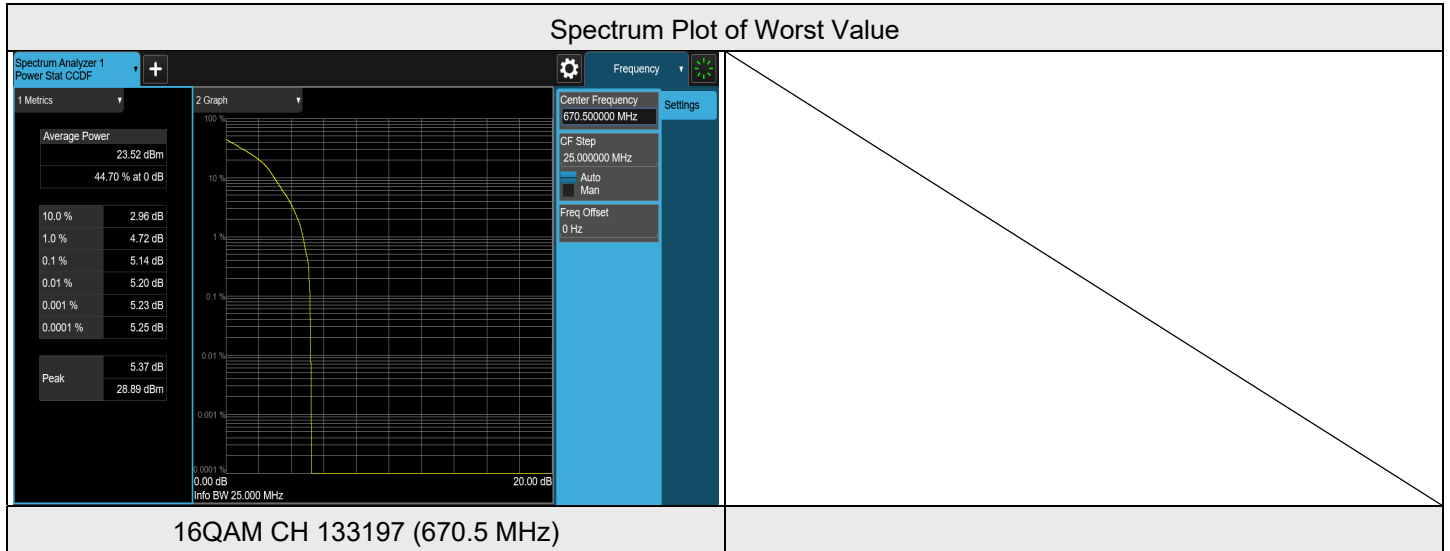
LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	133172	668	3.78	13	Pass
QPSK	133297	680.5	4.14	13	Pass
QPSK	133422	693	3.25	13	Pass
16QAM	133172	668	4.88	13	Pass
16QAM	133297	680.5	5.29	13	Pass
16QAM	133422	693	4.49	13	Pass



LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	133197	670.5	3.99	13	Pass
QPSK	133297	680.5	3.94	13	Pass
QPSK	133397	690.5	3.67	13	Pass
16QAM	133197	670.5	5.14	13	Pass
16QAM	133297	680.5	4.99	13	Pass
16QAM	133397	690.5	5.13	13	Pass

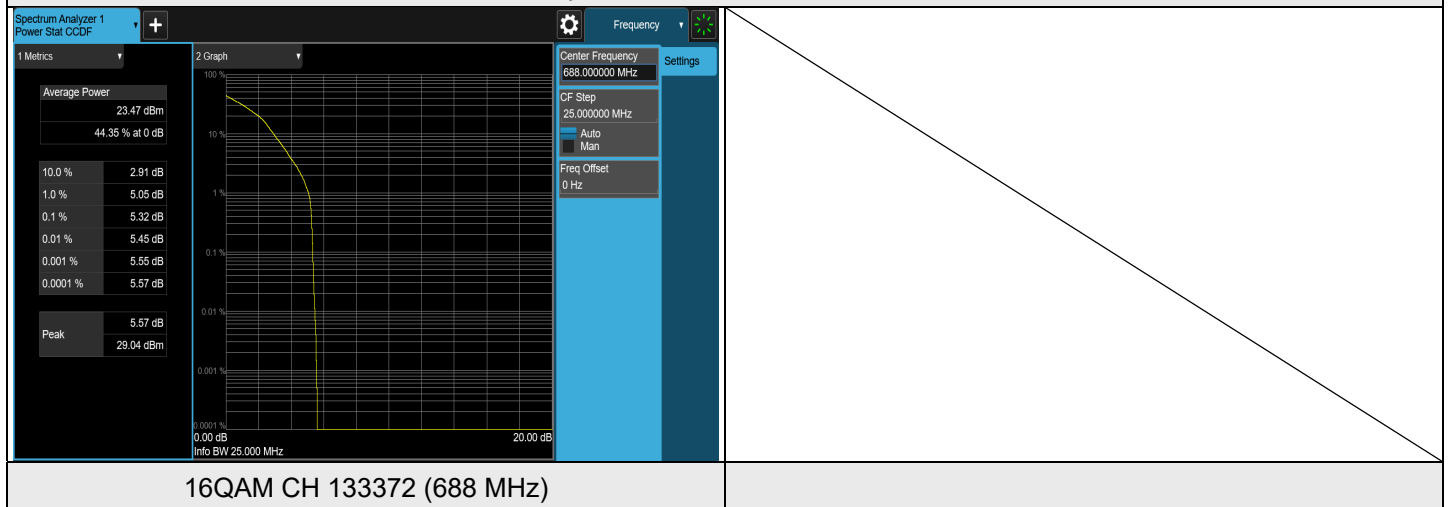




LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value (dB)	Limit (dB)	Result
QPSK	133222	673	4.00	13	Pass
QPSK	133297	680.5	3.89	13	Pass
QPSK	133372	688	4.26	13	Pass
16QAM	133222	673	5.03	13	Pass
16QAM	133297	680.5	4.97	13	Pass
16QAM	133372	688	5.32	13	Pass

Spectrum Plot of Worst Value



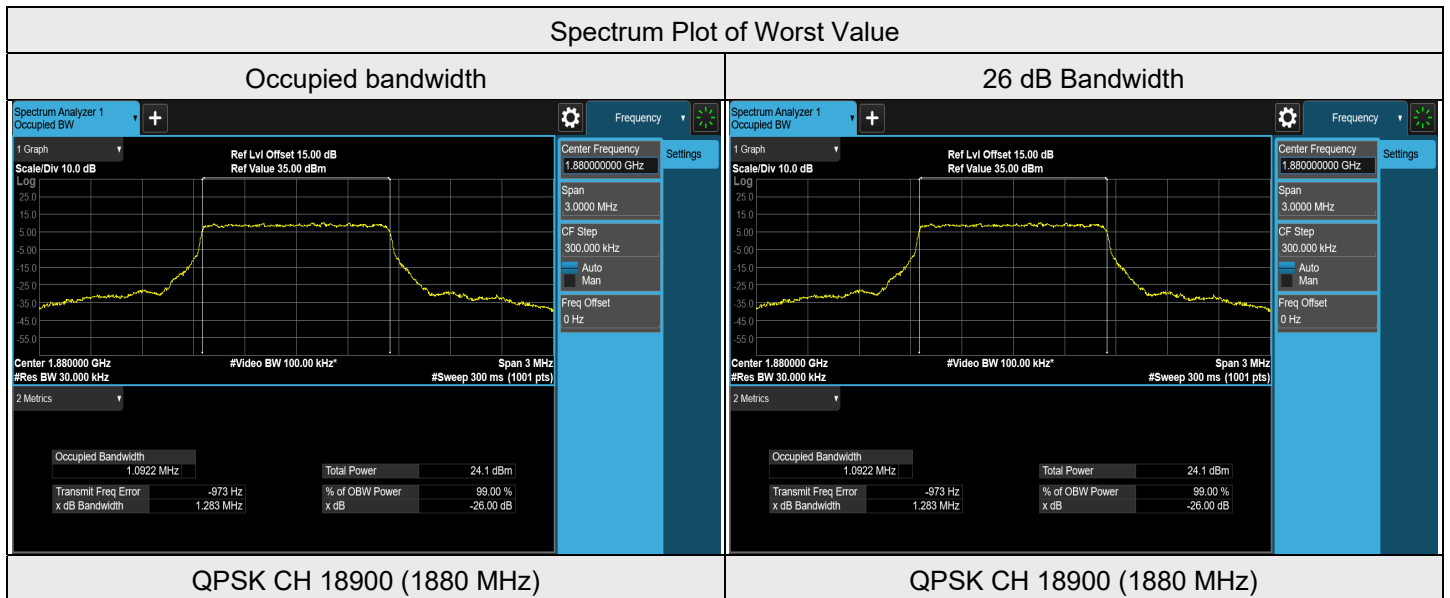
7.4 Bandwidth

Input Power:	7.3 Vdc	Environmental Conditions:	22°C, 75% RH	Tested By:	Willy Cheng
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7.4.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

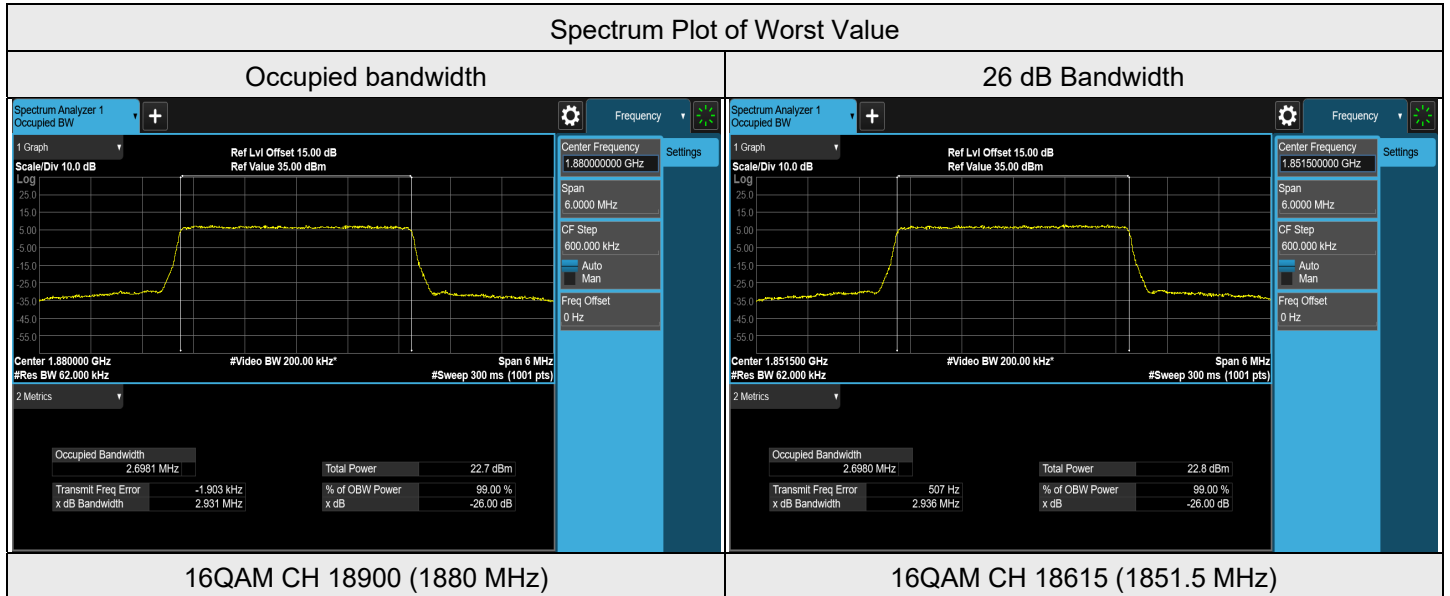
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0869	1.265
QPSK	18900	1880	1.0922	1.283
QPSK	19193	1909.3	1.0918	1.266
16QAM	18607	1850.7	1.0889	1.256
16QAM	18900	1880	1.0892	1.254
16QAM	19193	1909.3	1.0888	1.252





LTE Band 2, Channel Bandwidth: 3 MHz

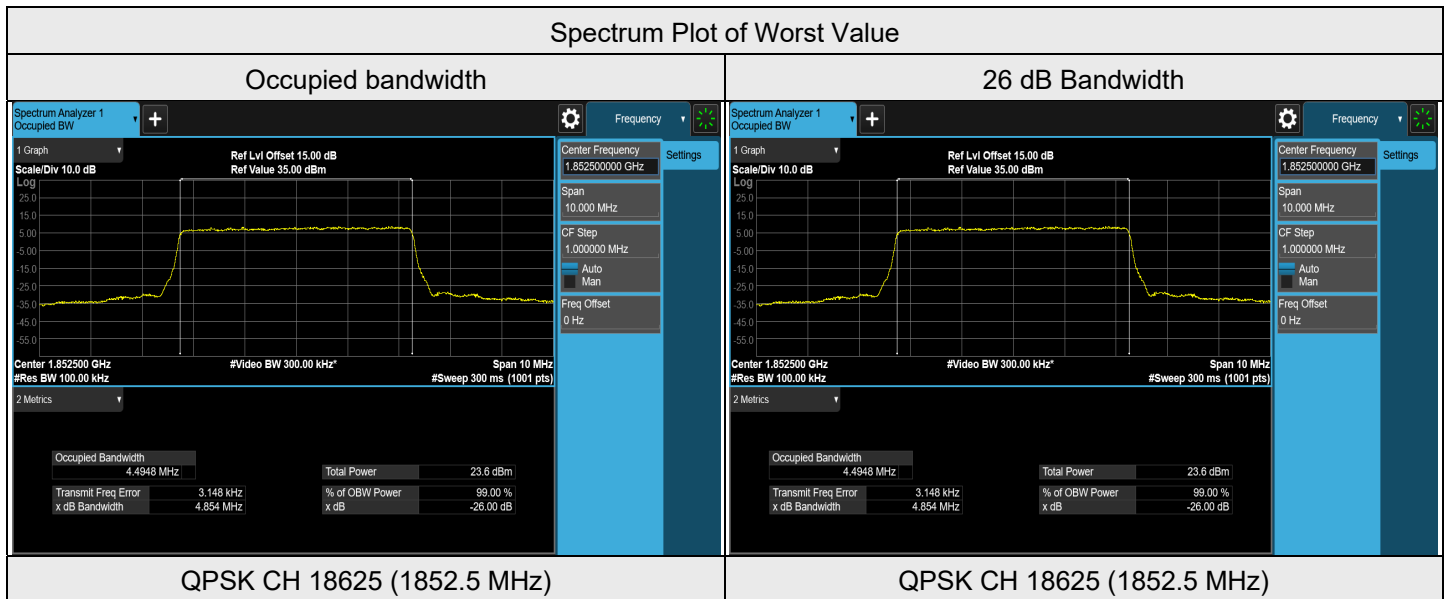
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.6971	2.925
QPSK	18900	1880	2.6973	2.932
QPSK	19185	1908.5	2.6972	2.918
16QAM	18615	1851.5	2.6980	2.936
16QAM	18900	1880	2.6981	2.931
16QAM	19185	1908.5	2.6972	2.927





LTE Band 2, Channel Bandwidth: 5 MHz

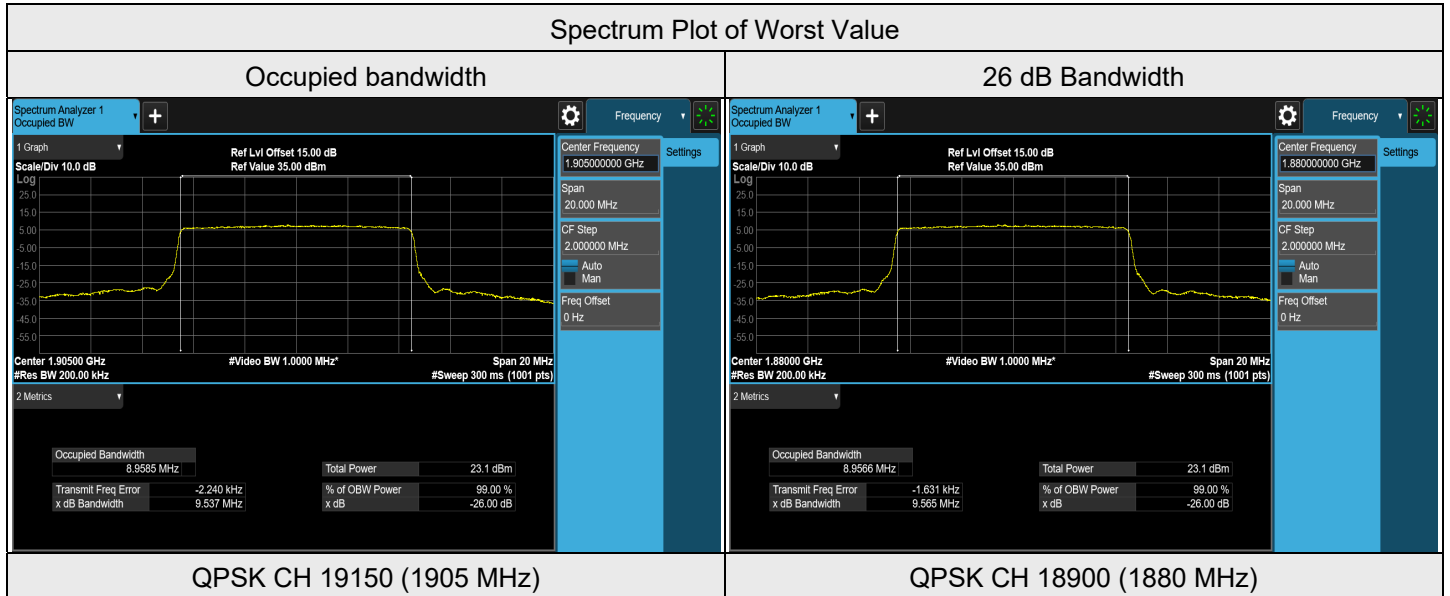
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.4948	4.854
QPSK	18900	1880	4.4930	4.853
QPSK	19175	1907.5	4.4916	4.835
16QAM	18625	1852.5	4.4903	4.824
16QAM	18900	1880	4.4910	4.834
16QAM	19175	1907.5	4.4885	4.832





LTE Band 2, Channel Bandwidth: 10 MHz

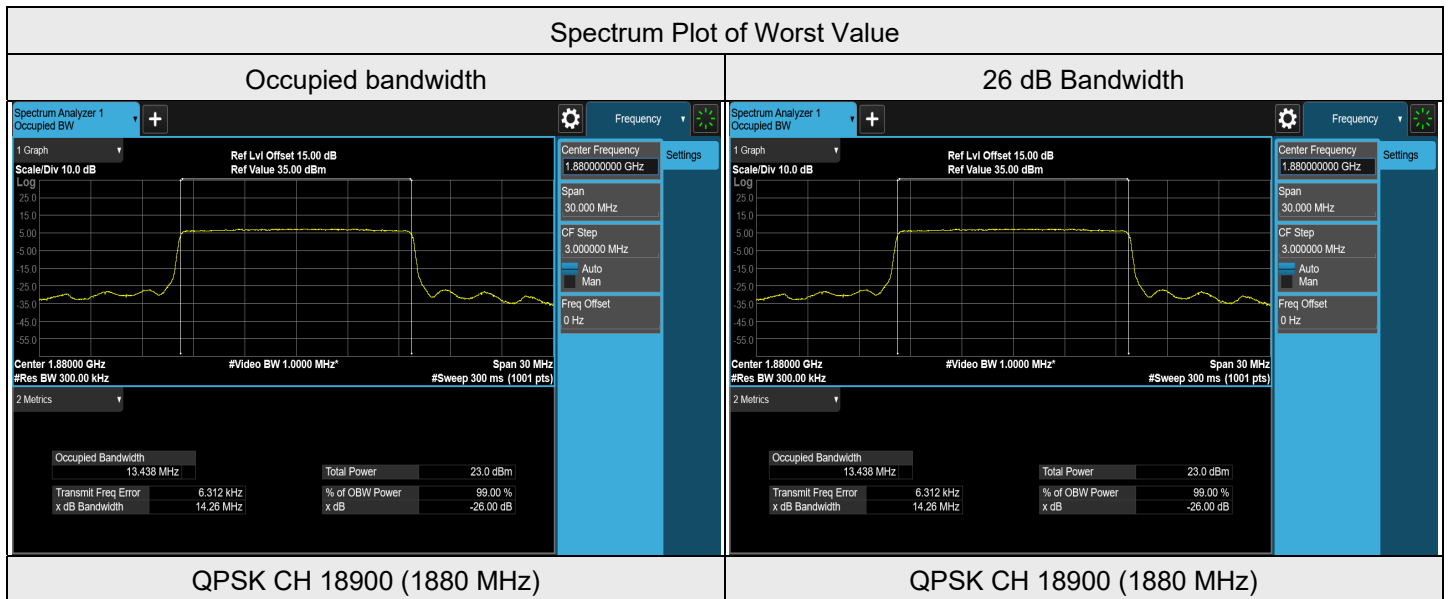
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9427	9.544
QPSK	18900	1880	8.9566	9.565
QPSK	19150	1905	8.9585	9.537
16QAM	18650	1855	8.9459	9.516
16QAM	18900	1880	8.9552	9.541
16QAM	19150	1905	8.9534	9.522





LTE Band 2, Channel Bandwidth: 15 MHz

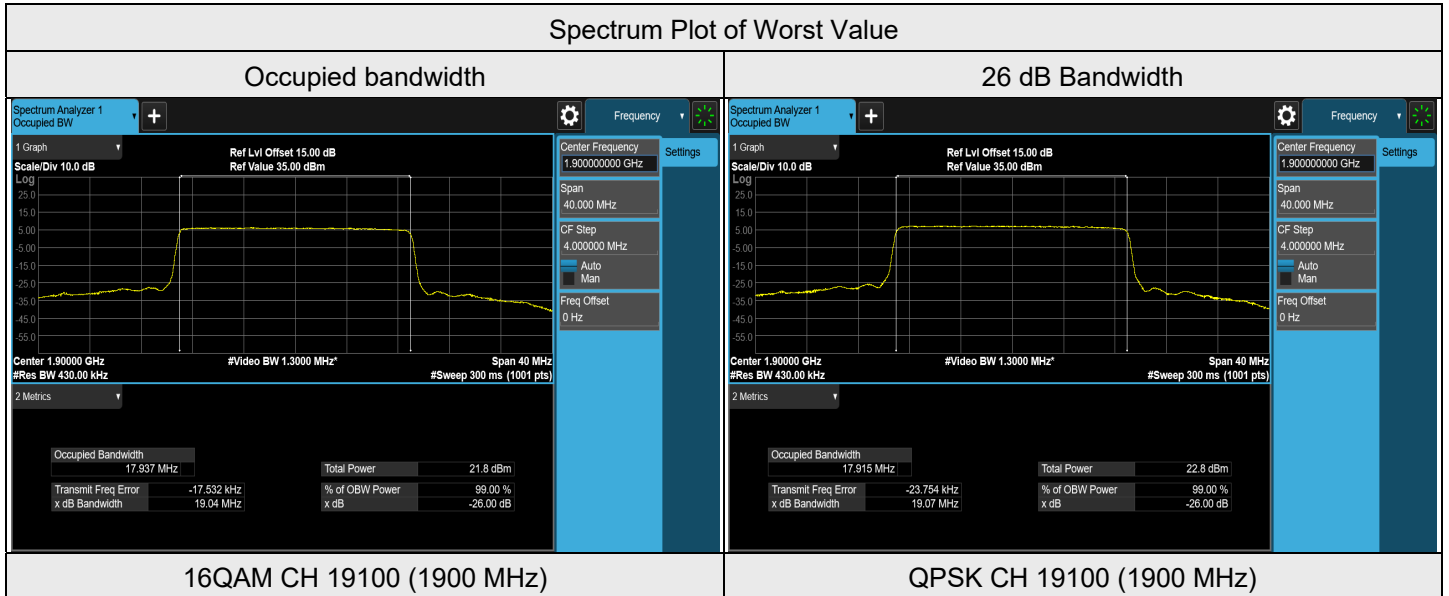
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.3915	14.224
QPSK	18900	1880	13.4385	14.255
QPSK	19125	1902.5	13.4357	14.252
16QAM	18675	1857.5	13.3821	14.213
16QAM	18900	1880	13.4296	14.251
16QAM	19125	1902.5	13.4268	14.253





LTE Band 2, Channel Bandwidth: 20 MHz

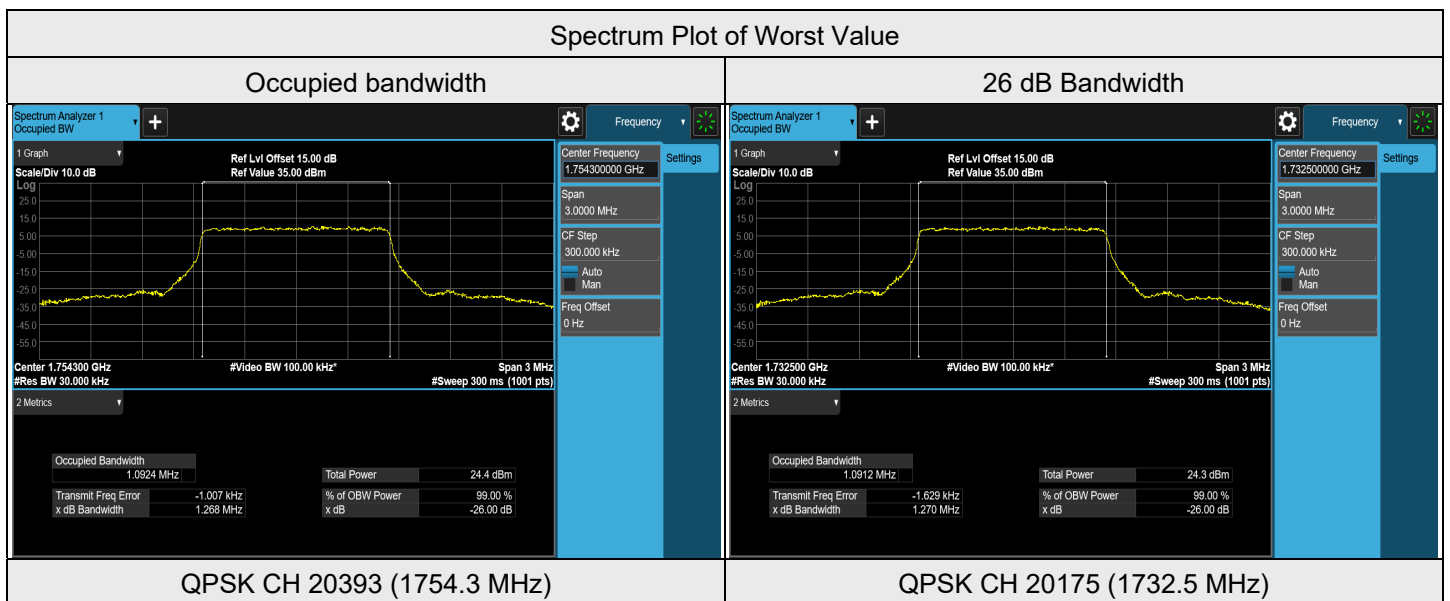
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.8145	19.005
QPSK	18900	1880	17.9106	19.065
QPSK	19100	1900	17.9147	19.066
16QAM	18700	1860	17.8332	18.973
16QAM	18900	1880	17.9212	19.032
16QAM	19100	1900	17.9367	19.043



7.4.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

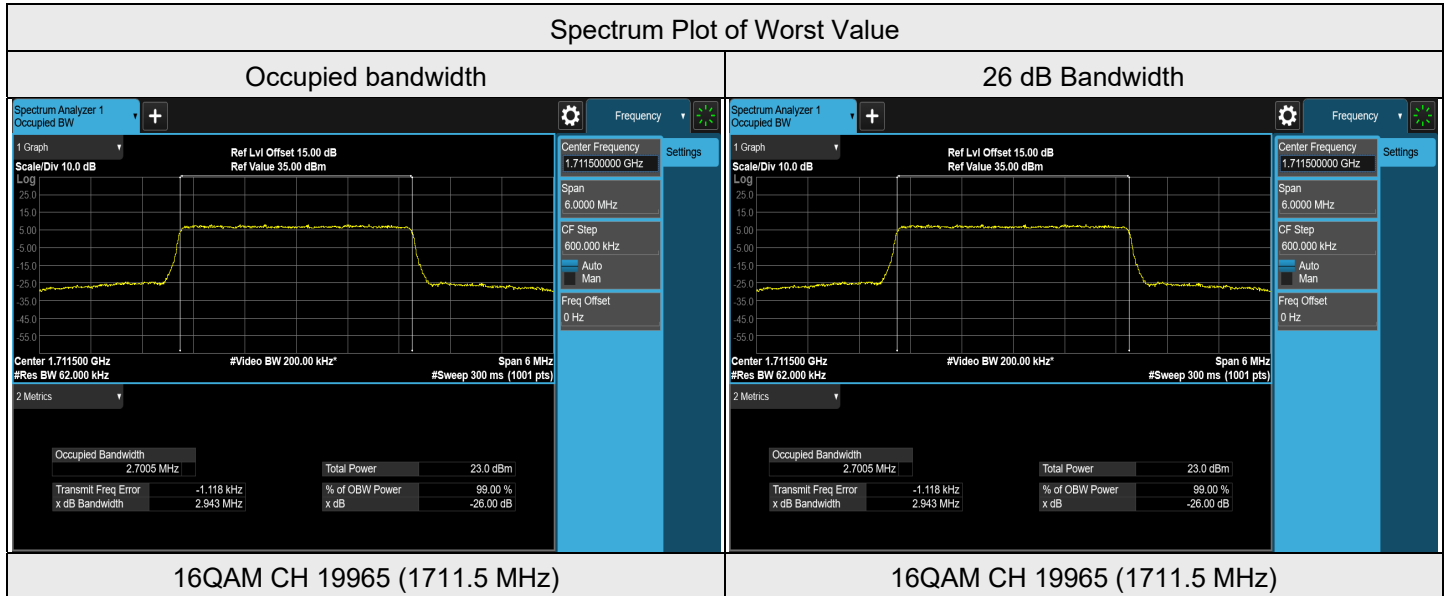
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0899	1.266
QPSK	20175	1732.5	1.0912	1.270
QPSK	20393	1754.3	1.0924	1.268
16QAM	19957	1710.7	1.0901	1.248
16QAM	20175	1732.5	1.0876	1.252
16QAM	20393	1754.3	1.0884	1.247





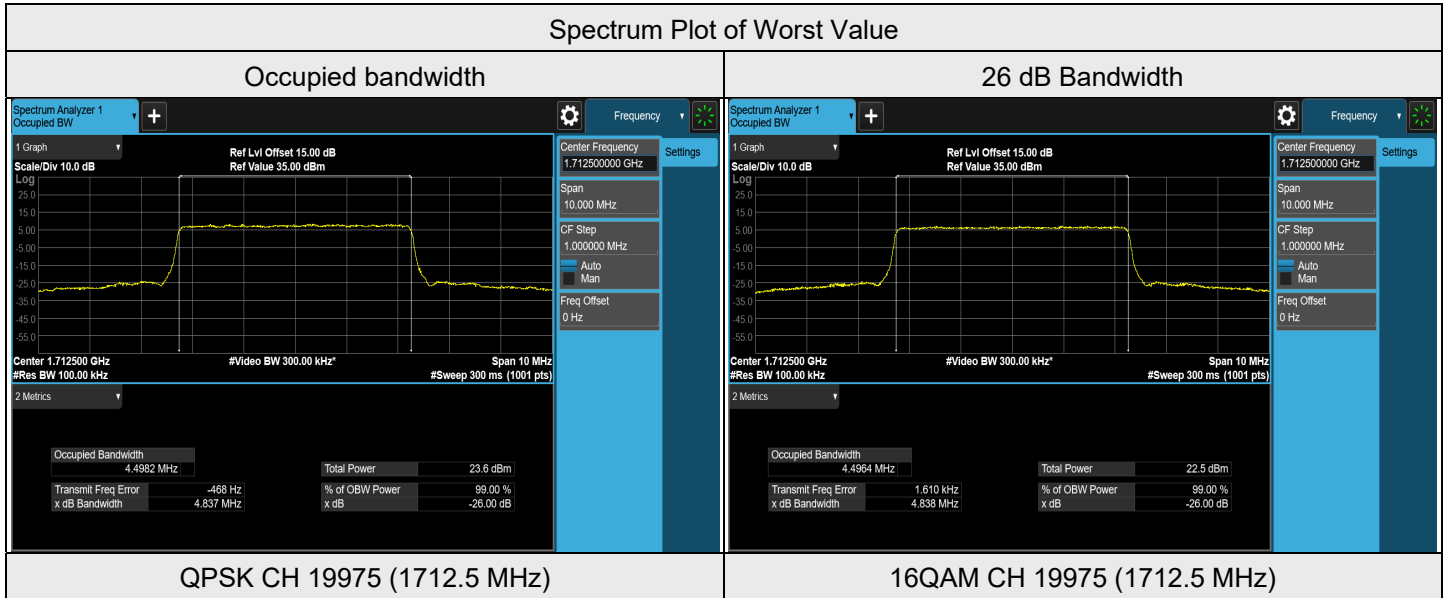
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19965	1711.5	2.6960	2.916
QPSK	20175	1732.5	2.6978	2.937
QPSK	20385	1753.5	2.6983	2.928
16QAM	19965	1711.5	2.7005	2.943
16QAM	20175	1732.5	2.6999	2.933
16QAM	20385	1753.5	2.6992	2.943



LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4982	4.837
QPSK	20175	1732.5	4.4917	4.833
QPSK	20375	1752.5	4.4949	4.834
16QAM	19975	1712.5	4.4964	4.838
16QAM	20175	1732.5	4.4922	4.819
16QAM	20375	1752.5	4.4942	4.819

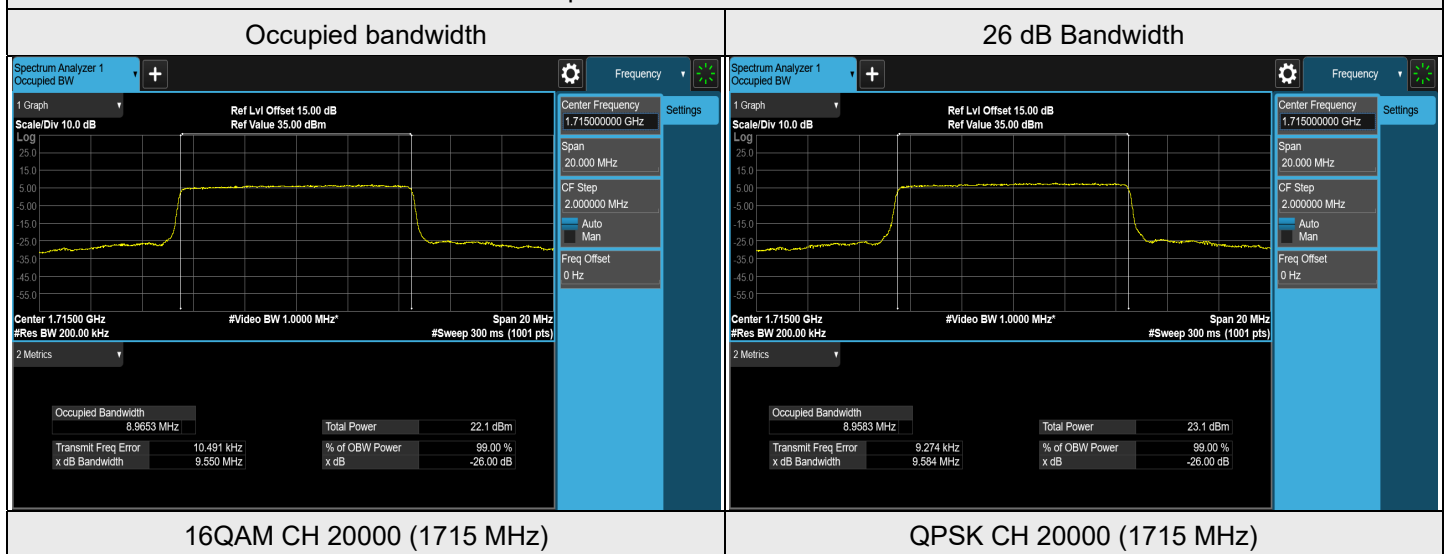




LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20000	1715	8.9583	9.584
QPSK	20175	1732.5	8.9532	9.557
QPSK	20350	1750	8.8072	9.287
16QAM	20000	1715	8.9653	9.550
16QAM	20175	1732.5	8.9537	9.531
16QAM	20350	1750	8.9514	9.507

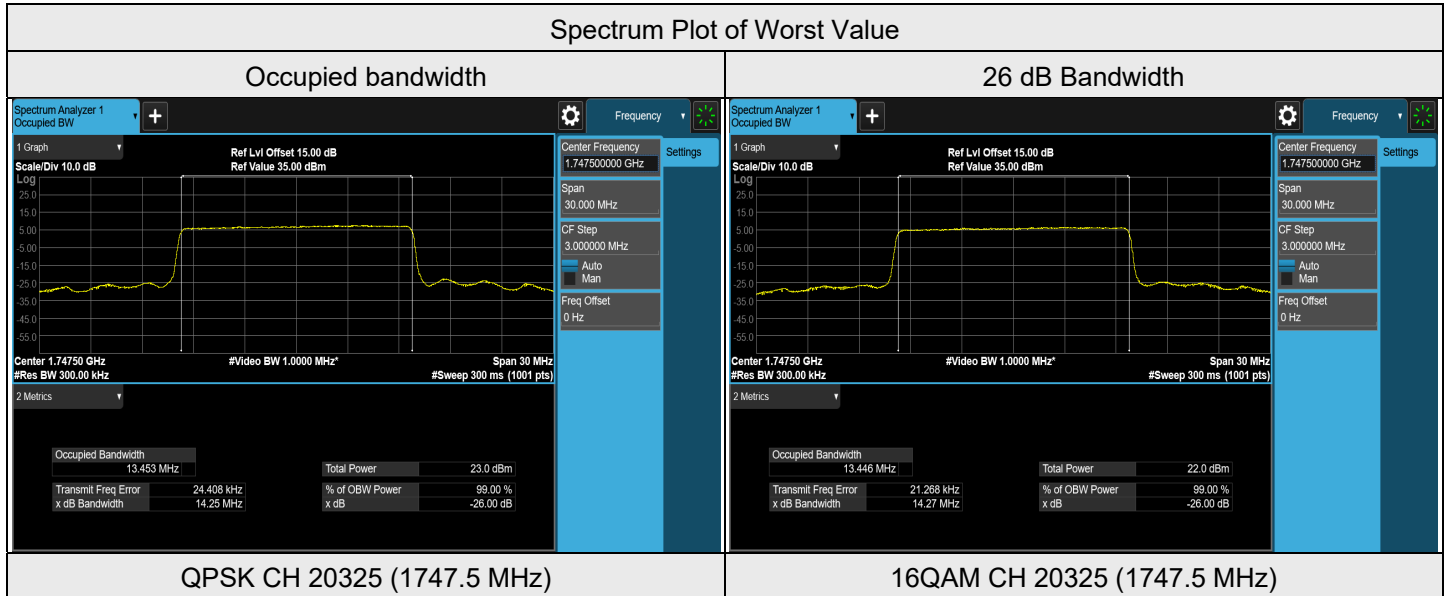
Spectrum Plot of Worst Value





LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20025	1717.5	13.4353	14.229
QPSK	20175	1732.5	13.4271	14.233
QPSK	20325	1747.5	13.4533	14.252
16QAM	20025	1717.5	13.4305	14.242
16QAM	20175	1732.5	13.4193	14.219
16QAM	20325	1747.5	13.4462	14.266

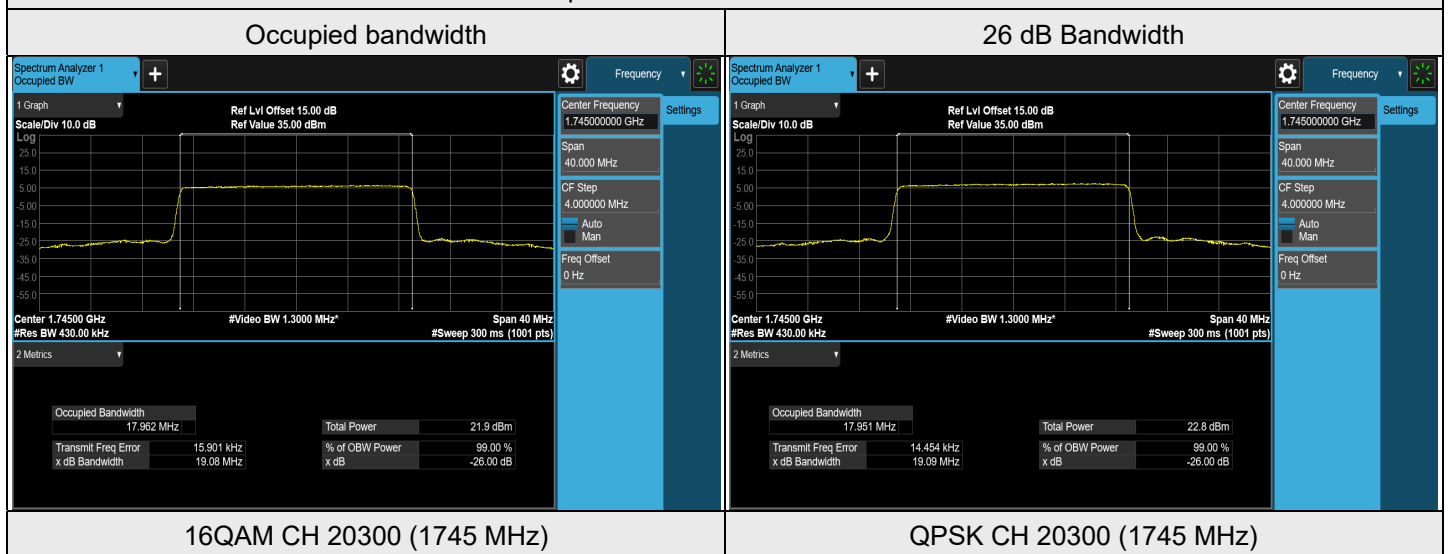




LTE Band 4, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20050	1720	17.8591	19.012
QPSK	20175	1732.5	17.8817	19.029
QPSK	20300	1745	17.9507	19.089
16QAM	20050	1720	17.8758	18.997
16QAM	20175	1732.5	17.8999	19.019
16QAM	20300	1745	17.9621	19.076

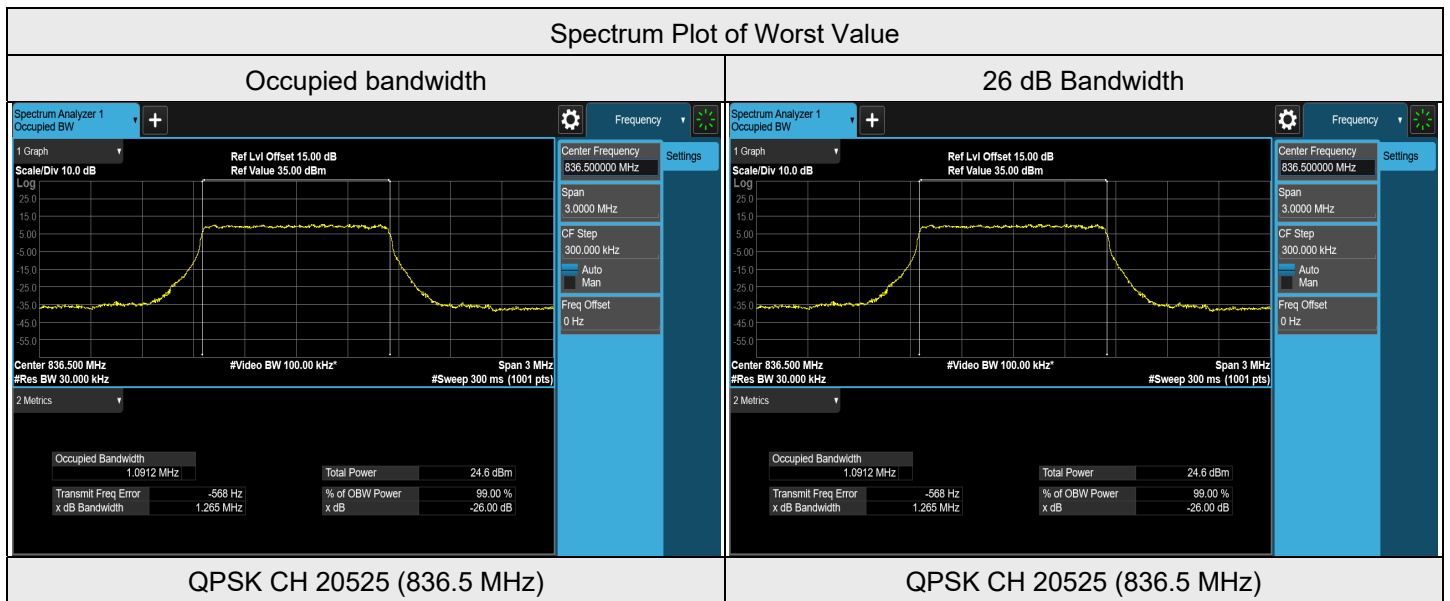
Spectrum Plot of Worst Value



7.4.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0883	1.261
QPSK	20525	836.5	1.0912	1.265
QPSK	20643	848.3	1.0905	1.257
16QAM	20407	824.7	1.0881	1.241
16QAM	20525	836.5	1.0886	1.246
16QAM	20643	848.3	1.0881	1.244

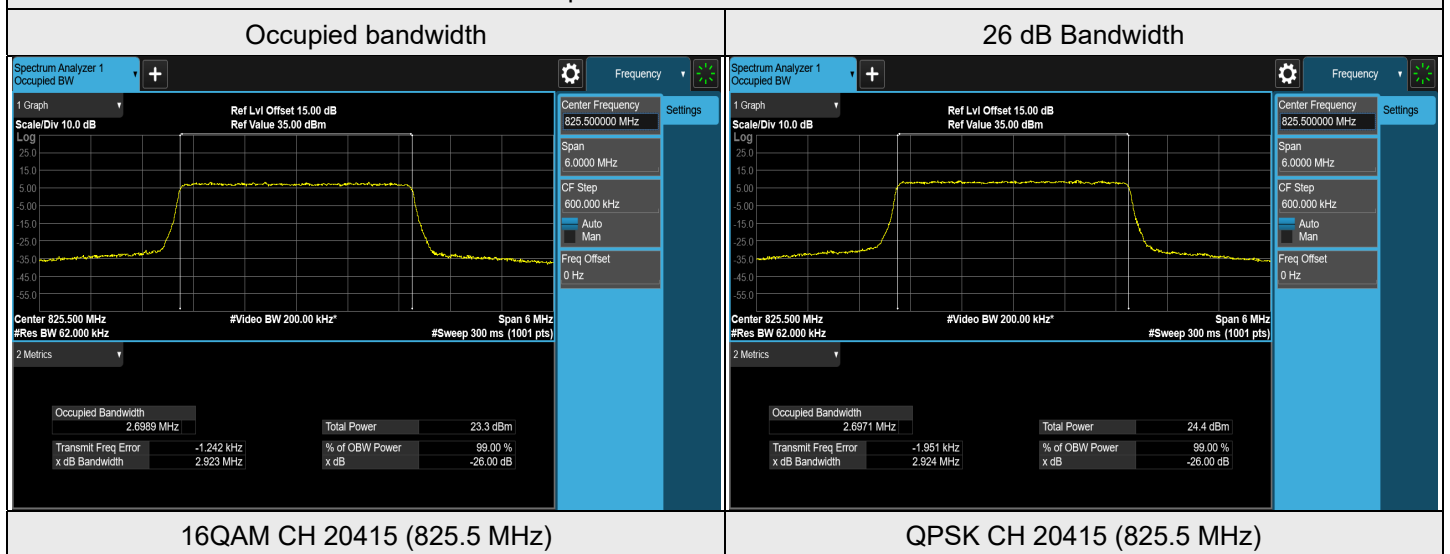




LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.6971	2.924
QPSK	20525	836.5	2.6957	2.909
QPSK	20635	847.5	2.6946	2.914
16QAM	20415	825.5	2.6989	2.923
16QAM	20525	836.5	2.6967	2.921
16QAM	20635	847.5	2.6950	2.916

Spectrum Plot of Worst Value

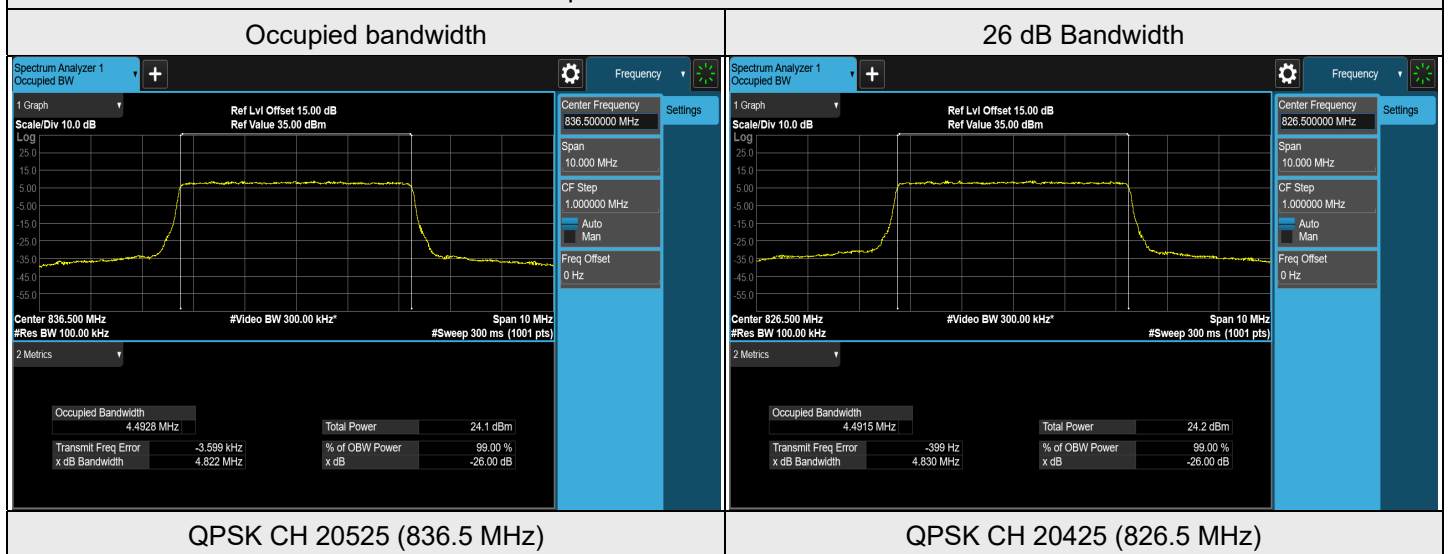




LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4915	4.830
QPSK	20525	836.5	4.4928	4.822
QPSK	20625	846.5	4.4856	4.817
16QAM	20425	826.5	4.4898	4.819
16QAM	20525	836.5	4.4888	4.804
16QAM	20625	846.5	4.4847	4.812

Spectrum Plot of Worst Value

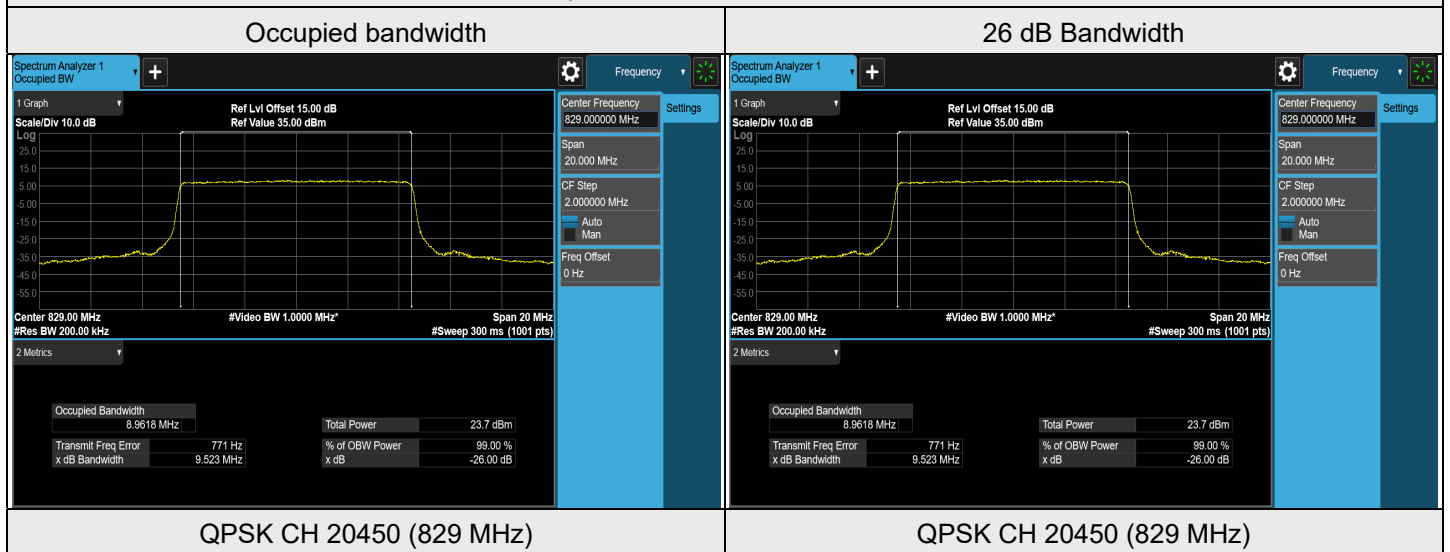




LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9618	9.523
QPSK	20525	836.5	8.9469	9.497
QPSK	20600	844	8.9559	9.513
16QAM	20450	829	8.9608	9.520
16QAM	20525	836.5	8.9506	9.506
16QAM	20600	844	8.9560	9.517

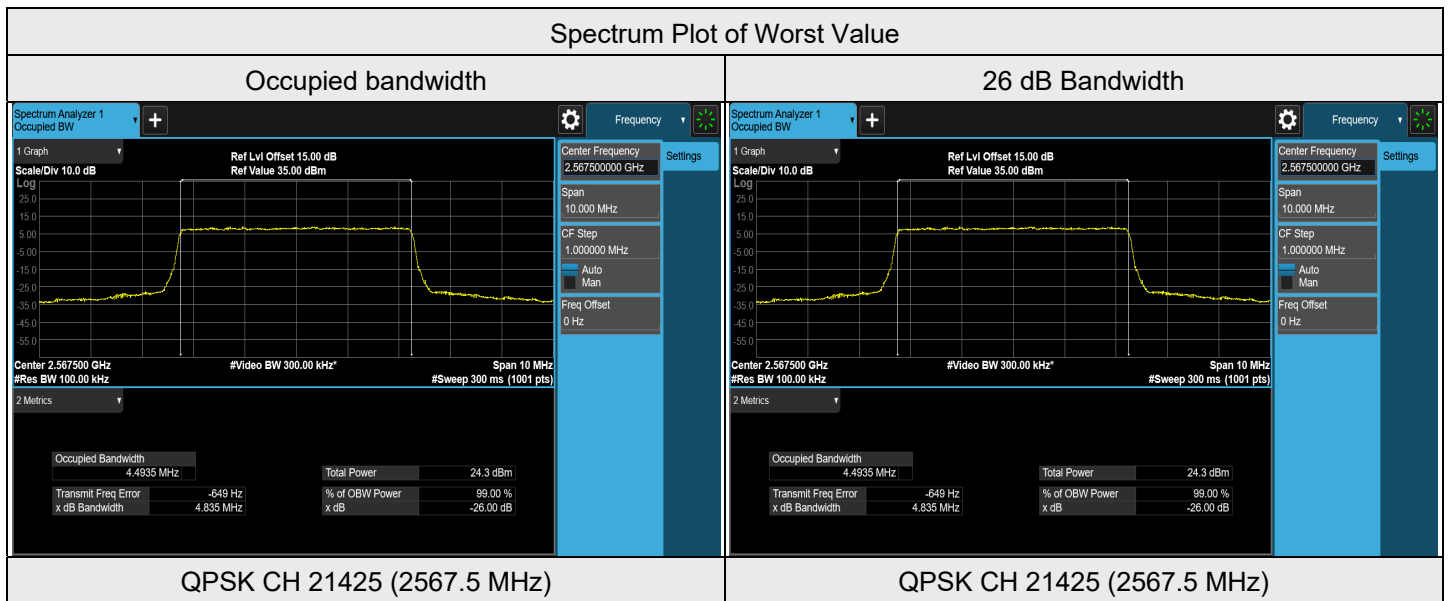
Spectrum Plot of Worst Value



7.4.4 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

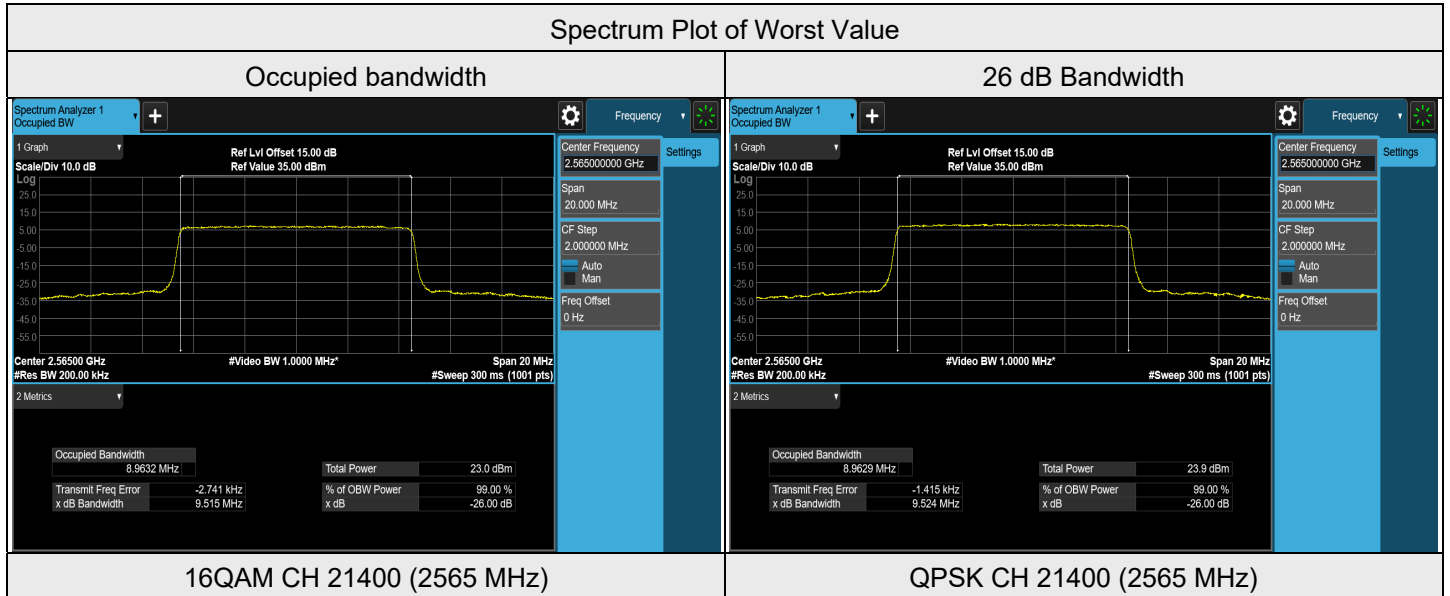
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20775	2502.5	4.4839	4.815
QPSK	21100	2535	4.4927	4.822
QPSK	21425	2567.5	4.4935	4.835
16QAM	20775	2502.5	4.4879	4.801
16QAM	21100	2535	4.4899	4.819
16QAM	21425	2567.5	4.4900	4.821





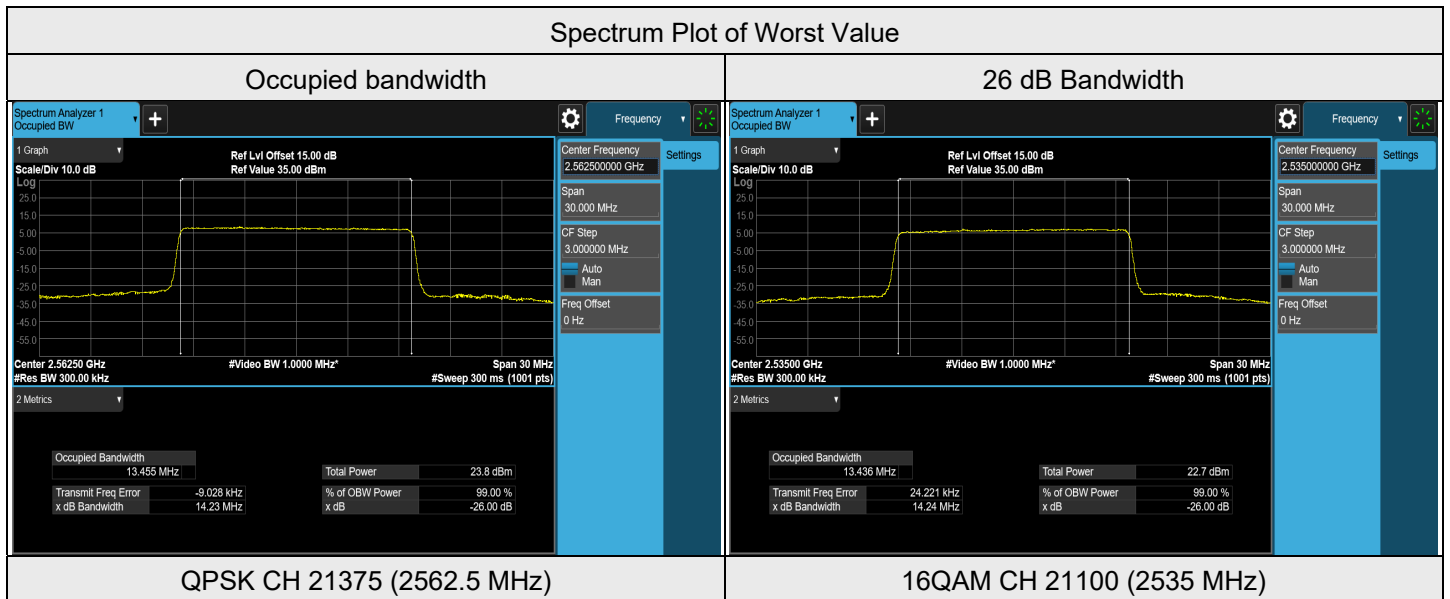
LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20800	2505	8.9436	9.495
QPSK	21100	2535	8.9570	9.512
QPSK	21400	2565	8.9629	9.524
16QAM	20800	2505	8.9451	9.497
16QAM	21100	2535	8.9547	9.522
16QAM	21400	2565	8.9632	9.515



LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20825	2507.5	13.4069	14.214
QPSK	21100	2535	13.4454	14.231
QPSK	21375	2562.5	13.4549	14.231
16QAM	20825	2507.5	13.3954	14.214
16QAM	21100	2535	13.4364	14.242
16QAM	21375	2562.5	13.4508	14.234





LTE Band 7, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20850	2510	17.8397	18.989
QPSK	21100	2535	17.9042	19.004
QPSK	21350	2560	17.9401	19.015
16QAM	20850	2510	17.8491	18.984
16QAM	21100	2535	17.9222	19.005
16QAM	21350	2560	17.9507	19.031

