

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.: RFBFOK-WTW-P23050750-5

FCC ID: RI7SE250B4

Product: Module

Brand: Telit Cinterion

Model No.: SE250B4-NA

Received Date: 2023/9/6

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FCC Registration /

Designation Number: 788550 / TW0003

Approved by: _____

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2023/12/19

Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBFOK-WTW-P23050750-5	Original release.	2023/12/19

1 Certificate

Product: Module

Brand: Telit Cinterion

Test Model: SE250B4-NA

Sample Status: Engineering sample

Applicant: Telit Communications S.p.A.

Test Date: 2023/9/15 ~ 2023/10/5

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.



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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 -32.43 dB at 42.61 MHz



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<p>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)</p>	<p>Radiated Spurious Emissions above 1GHz</p>	<p>Pass</p>	<p>Minimum passing margin is -6.73 dB at 1564.00 MHz</p>
<p>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)</p>	<p>Frequency Stability</p>	<p>Pass</p>	<p>Meet the requirement of limit.</p>

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	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	Module
Brand	Telit Cinterion
Test Model	SE250B4-NA
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc (from DC Power Supply) 5 Vdc (from adapter)
Technology Type	4G Cellular Networks
HW Version	1.0
SW Version	MON.100001

Note:

1. EUT Overview.

Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			Emission Designator		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7-1909.3	265.461mW (24.24dBm)	211.349mW (23.25dBm)	167.494mW (22.24dBm)	1M09G7D	1M09D7W	1M09D7W
LTE Band 2 (Channel Bandwidth 3MHz)	1851.5-1908.5	270.396mW (24.32dBm)	211.349mW (23.25dBm)	168.267mW (22.26dBm)	2M70G7D	2M70D7W	2M69D7W
LTE Band 2 (Channel Bandwidth 5MHz)	1852.5-1907.5	274.789mW (24.39dBm)	203.704mW (23.09dBm)	165.959mW (22.20dBm)	4M49G7D	4M49D7W	4M49D7W
LTE Band 2 (Channel Bandwidth 10MHz)	1855.0-1905.0	276.058mW (24.41dBm)	221.309mW (23.45dBm)	175.388mW (22.44dBm)	8M96G7D	8M96D7W	8M96D7W
LTE Band 2 (Channel Bandwidth 15MHz)	1857.5-1902.5	276.694mW (24.42dBm)	221.309mW (23.45dBm)	177.419mW (22.49dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 2 (Channel Bandwidth 20MHz)	1860.0-1900.0	287.740mW (24.59dBm)	228.560mW (23.59dBm)	183.654mW (22.64dBm)	17M9G7D	17M9D7W	17M9D7W
LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7-1754.3	299.916mW (24.77dBm)	252.348mW (24.02dBm)	197.242mW (22.95dBm)	1M09G7D	1M09D7W	1M09D7W
LTE Band 4 (Channel Bandwidth 3MHz)	1711.5-1753.5	302.691mW (24.81dBm)	234.423mW (23.70dBm)	184.502mW (22.66dBm)	2M70G7D	2M70D7W	2M70D7W
LTE Band 4 (Channel Bandwidth 5MHz)	1712.5-1752.5	293.765mW (24.68dBm)	245.471mW (23.90dBm)	199.986mW (23.01dBm)	4M49G7D	4M49D7W	4M49D7W
LTE Band 4 (Channel Bandwidth 10MHz)	1715.0-1750.0	288.403mW (24.60dBm)	228.560mW (23.59dBm)	185.353mW (22.68dBm)	8M96G7D	8M95D7W	8M96D7W
LTE Band 4 (Channel Bandwidth 15MHz)	1717.5-1747.5	301.301mW (24.79dBm)	234.423mW (23.70dBm)	186.638mW (22.71dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 4 (Channel Bandwidth 20MHz)	1720.0-1745.0	304.089mW (24.83dBm)	241.546mW (23.83dBm)	192.309mW (22.84dBm)	17M9G7D	18M0D7W	18M0D7W
LTE Band 7 (Channel Bandwidth 5MHz)	2502.5-2567.5	335.738mW (25.26dBm)	299.226mW (24.76dBm)	241.546mW (23.83dBm)	4M49G7D	4M48D7W	4M49D7W
LTE Band 7 (Channel Bandwidth 10MHz)	2505.0-2565.0	340.408mW (25.32dBm)	261.818mW (24.18dBm)	207.970mW (23.18dBm)	8M96G7D	8M96D7W	8M96D7W
LTE Band 7 (Channel Bandwidth 15MHz)	2507.5-2562.5	334.195mW (25.24dBm)	266.686mW (24.26dBm)	210.863mW (23.24dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 7 (Channel Bandwidth 20MHz)	2510.0-2560.0	361.410mW (25.58dBm)	283.792mW (24.53dBm)	223.357mW (23.49dBm)	17M9G7D	17M9D7W	17M9D7W
LTE Band 25 (Channel Bandwidth 1.4MHz)	1850.7-1914.3	249.459mW (23.97dBm)	207.970mW (23.18dBm)	165.577mW (22.19dBm)	1M09G7D	1M09D7W	1M09D7W
LTE Band 25 (Channel Bandwidth 3MHz)	1851.5-1913.5	257.040mW (24.10dBm)	189.234mW (22.77dBm)	148.594mW (21.72dBm)	2M70G7D	2M70D7W	2M70D7W
LTE Band 25 (Channel Bandwidth 5MHz)	1852.5-1912.5	251.768mW (24.01dBm)	189.671mW (22.78dBm)	153.462mW (21.86dBm)	4M49G7D	4M49D7W	4M49D7W
LTE Band 25 (Channel Bandwidth 10MHz)	1855.0-1910.0	252.930mW (24.03dBm)	198.609mW (22.98dBm)	161.808mW (22.09dBm)	8M96G7D	8M96D7W	8M96D7W
LTE Band 25 (Channel Bandwidth 15MHz)	1857.5-1907.5	249.459mW (23.97dBm)	201.372mW (23.04dBm)	158.855mW (22.01dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 25 (Channel Bandwidth 20MHz)	1860.0-1905.0	263.633mW (24.21dBm)	192.309mW (22.84dBm)	151.356mW (21.80dBm)	17M9G7D	17M9D7W	17M9D7W



Band / Bandwidth	TX Frequency Range (MHz)	Max. EIRP Power			Emission Designator		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE Band 41 (Channel Bandwidth 5MHz)	2537.5-2652.5	337.287mW (25.28dBm)	295.121mW (24.70dBm)	234.423mW (23.70dBm)	4M49G7D	4M48D7W	4M49D7W
LTE Band 41 (Channel Bandwidth 10MHz)	2540.0-2650.0	343.558mW (25.36dBm)	302.691mW (24.81dBm)	246.604mW (23.92dBm)	8M96G7D	8M95D7W	8M95D7W
LTE Band 41 (Channel Bandwidth 15MHz)	2542.5-2647.5	349.140mW (25.43dBm)	300.608mW (24.78dBm)	239.332mW (23.79dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 41 (Channel Bandwidth 20MHz)	2545.0-2645.0	394.457mW (25.96dBm)	330.370mW (25.19dBm)	262.422mW (24.19dBm)	17M9G7D	17M9D7W	17M9D7W
LTE Band 66 (Channel Bandwidth 1.4 MHz)	1710.7-1779.3	258.821mW (24.13dBm)	205.589mW (23.13dBm)	164.816mW (22.17dBm)	1M09G7D	1M09D7W	1M09D7W
LTE Band 66 (Channel Bandwidth 3MHz)	1711.5-1778.5	264.850mW (24.23dBm)	206.063mW (23.14dBm)	162.181mW (22.10dBm)	2M70G7D	2M70D7W	2M70D7W
LTE Band 66 (Channel Bandwidth 5MHz)	1712.5-1777.5	264.241mW (24.22dBm)	201.372mW (23.04dBm)	164.059mW (22.15dBm)	4M49G7D	4M49D7W	4M49D7W
LTE Band 66 (Channel Bandwidth 10MHz)	1715.0-1775.0	269.774mW (24.31dBm)	214.783mW (23.32dBm)	172.982mW (22.38dBm)	8M96G7D	8M96D7W	8M96D7W
LTE Band 66 (Channel Bandwidth 15MHz)	1717.5-1772.5	267.917mW (24.28dBm)	217.270mW (23.37dBm)	174.181mW (22.41dBm)	13M4G7D	13M4D7W	13M4D7W
LTE Band 66 (Channel Bandwidth 20MHz)	1720.0-1770.0	279.898mW (24.47dBm)	224.905mW (23.52dBm)	181.552mW (22.59dBm)	17M9G7D	18M0D7W	18M0D7W

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power			Emission Designator			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
LTE Band 5 (Channel Bandwidth 1.4MHz)	824.7-848.3	223.357mW (23.49dBm)	174.985mW (22.43dBm)	137.721mW (21.39dBm)	1M09G7D	1M09D7W	1M09D7W	
LTE Band 5 (Channel Bandwidth 3MHz)	825.5-847.5	219.786mW (23.42dBm)	184.077mW (22.65dBm)	143.880mW (21.58dBm)	2M70G7D	2M70D7W	2M70D7W	
LTE Band 5 (Channel Bandwidth 5MHz)	826.5-846.5	218.273mW (23.39dBm)	163.682mW (22.14dBm)	130.017mW (21.14dBm)	4M49G7D	4M49D7W	4M49D7W	
LTE Band 5 (Channel Bandwidth 10MHz)	829.0-844.0	230.144mW (23.62dBm)	171.791mW (22.35dBm)	136.773mW (21.36dBm)	8M96G7D	8M96D7W	8M97D7W	
LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7-715.3	176.604mW (22.47dBm)	138.038mW (21.40dBm)	110.408mW (20.43dBm)	1M09G7D	1M09D7W	1M09D7W	
LTE Band 12 (Channel Bandwidth 3MHz)	700.5-714.5	174.582mW (22.42dBm)	137.088mW (21.37dBm)	111.944mW (20.49dBm)	2M70G7D	2M70D7W	2M69D7W	
LTE Band 12 (Channel Bandwidth 5MHz)	701.5-713.5	176.198mW (22.46dBm)	137.404mW (21.38dBm)	109.144mW (20.38dBm)	4M49G7D	4M49D7W	4M49D7W	
LTE Band 12 (Channel Bandwidth 10MHz)	704.0-711.0	188.799mW (22.76dBm)	138.357mW (21.41dBm)	109.144mW (20.38dBm)	8M96G7D	8M96D7W	8M96D7W	
LTE Band 13 (Channel Bandwidth 5MHz)	779.5-784.5	166.341mW (22.21dBm)	130.017mW (21.14dBm)	105.925mW (20.25dBm)	4M49G7D	4M49D7W	4M49D7W	
LTE Band 13 (Channel Bandwidth 10MHz)	782.0	177.828mW (22.50dBm)	119.674mW (20.78dBm)	93.541mW (19.71dBm)	8M94G7D	8M94D7W	8M95D7W	
LTE Band 14 (Channel Bandwidth 5MHz)	790.5-795.5	179.473mW (22.54dBm)	145.881mW (21.64dBm)	115.080mW (20.61dBm)	4M49G7D	4M49D7W	4M49D7W	
LTE Band 14 (Channel Bandwidth 10MHz)	793	180.717mW (22.57dBm)	146.893mW (21.67dBm)	116.950mW (20.68dBm)	8M96G7D	8M97D7W	8M96D7W	
LTE Band 17 (Channel Bandwidth 5MHz)	706.5-713.5	153.815mW (21.87dBm)	116.145mW (20.65dBm)	93.325mW (19.70dBm)	4M49G7D	4M49D7W	4M49D7W	
LTE Band 17 (Channel Bandwidth 10MHz)	709.0-711.0	154.525mW (21.89dBm)	125.603mW (20.99dBm)	102.094mW (20.09dBm)	8M95G7D	8M95D7W	8M95D7W	
For Part 22	LTE Band 26 (Channel Bandwidth 1.4MHz)	824.7-848.3	194.984mW (22.90dBm)	152.757mW (21.84dBm)	123.880mW (20.93dBm)	1M09G7D	1M09D7W	1M09D7W
	LTE Band 26 (Channel Bandwidth 3MHz)	825.5-847.5	180.717mW (22.57dBm)	151.008mW (21.79dBm)	119.950mW (20.79dBm)	2M70G7D	2M70D7W	2M70D7W
	LTE Band 26 (Channel Bandwidth 5MHz)	826.5-846.5	193.642mW (22.87dBm)	173.780mW (22.40dBm)	138.676mW (21.42dBm)	4M49G7D	4M49D7W	4M49D7W
	LTE Band 26 (Channel Bandwidth 10MHz)	829.0-844.0	183.231mW (22.63dBm)	157.398mW (21.97dBm)	126.765mW (21.03dBm)	8M97G7D	8M96D7W	8M97D7W
	LTE Band 26 (Channel Bandwidth 15MHz)	831.5-841.5	216.272mW (23.35dBm)	156.315mW (21.94dBm)	125.893mW (21.00dBm)	13M4G7D	13M4D7W	13M4D7W
For Part 90	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7-823.3	214.783mW (23.32dBm)	179.887mW (22.55dBm)	144.212mW (21.59dBm)	1M09G7D	1M09D7W	1M09D7W
	LTE Band 26 (Channel Bandwidth 3MHz)	815.5-822.5	205.116mW (23.12dBm)	161.808mW (22.09dBm)	128.233mW (21.08dBm)	2M70G7D	2M70D7W	2M70D7W
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5-821.5	212.324mW (23.27dBm)	169.824mW (22.30dBm)	136.144mW (21.34dBm)	4M49G7D	4M48D7W	4M49D7W
	LTE Band 26 (Channel Bandwidth 10MHz)	819.0	214.783mW (23.32dBm)	172.187mW (22.36dBm)	138.038mW (21.40dBm)	8M96G7D	8M96D7W	8M97D7W

Band / Bandwidth	TX Frequency Range (MHz)	Max. ERP Power			Emission Designator		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE Band 71 (Channel Bandwidth 5MHz)	665.5-695.5	187.932mW (22.74dBm)	147.571mW (21.69dBm)	119.124mW (20.76dBm)	4M49G7D	4M48D7W	4M49D7W
LTE Band 71 (Channel Bandwidth 10MHz)	668.0-693.0	188.365mW (22.75dBm)	149.968mW (21.76dBm)	118.032mW (20.72dBm)	8M96G7D	8M96D7W	8M96D7W
LTE Band 71 (Channel Bandwidth 15MHz)	670.5-690.5	193.642mW (22.87dBm)	147.911mW (21.70dBm)	120.781mW (20.82dBm)	13M5G7D	13M5D7W	13M4D7W
LTE Band 71 (Channel Bandwidth 20MHz)	673.0-688.0	199.067mW (22.99dBm)	149.279mW (21.74dBm)	118.850mW (20.75dBm)	18M0G7D	18M0D7W	18M0D7W

2. 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.

Antenna Type		Monopole	
Antenna Connector		SMA	
LTE Band			
Band	Freq. Range (MHz)	Gain (dBi)	
		Ant. 1 (TX/RX)	Ant. 2 (RX diversity)
LTE B2	1850 ~ 1910	2.16	2.16
LTE B4	1710 ~ 1755	2.06	2.06
LTE B5	824 ~ 849	2.31	2.31
LTE B7	2500 ~ 2570	3.12	3.12
LTE B12	698 ~ 716	1.47	1.47
LTE B13	777 ~ 787	1.29	1.29
LTE B14	788 ~ 798	1.47	1.47
LTE B17	704 ~ 716	1.47	1.47
LTE B25	1850 ~ 1915	2.16	2.16
LTE B26	814 ~ 849	2.31	2.31
LTE B41	2535~2655	2.83	2.83
LTE B66	1710 ~ 1780	2.06	2.06
LTE B71	663 ~ 698	1.58	1.58

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	The Antenna of 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 / 64QAM	1 RB Half RB Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	18900 (1880.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	18607 (1850.70 MHz) 18900 (1880.00 MHz) 19193 (1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 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 / 64QAM	Full RB
	18615 (1851.50 MHz) 18900 (1880.00 MHz) 19185 (1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	18625 (1852.50 MHz) 18900 (1880.00 MHz) 19175 (1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	18650 (1855.00 MHz) 18900 (1880.00 MHz) 19150 (1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	18675 (1857.50 MHz) 18900 (1880.00 MHz) 19125 (1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	18700 (1860.00 MHz) 18900 (1880.00 MHz) 19100 (1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
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	18900 (1880.00 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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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



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 / 64QAM	1 RB Half RB Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	20175 (1732.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Occupied Bandwidth	19957 (1710.70 MHz) 20175 (1732.50 MHz) 20393 (1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	19965 (1711.50 MHz) 20175 (1732.50 MHz) 20385 (1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	19975 (1712.50 MHz) 20175 (1732.50 MHz) 20375 (1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	20000 (1715.00 MHz) 20175 (1732.50 MHz) 20350 (1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	20025 (1717.50 MHz) 20175 (1732.50 MHz) 20325 (1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	20050 (1720.00 MHz) 20175 (1732.50 MHz) 20300 (1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full 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	20175 (1732.50 MHz)	20 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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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

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 / 64QAM	1 RB Half RB Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	20525 (836.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	20407 (824.70 MHz) 20525 (836.50 MHz) 20643 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	20415 (825.50 MHz) 20525 (836.50 MHz) 20635 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	20425 (826.50 MHz) 20525 (836.50 MHz) 20625 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	20450 (829.00 MHz) 20525 (836.50 MHz) 20600 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full 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	20525 (836.50 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
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

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 / 64QAM	1 RB Half RB Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	21100 (2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	20775 (2502.50 MHz) 21100 (2535.00 MHz) 21425 (2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	20800 (2505.00 MHz) 21100 (2535.00 MHz) 21400 (2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	20825 (2507.50 MHz) 21100 (2535.00 MHz) 21375 (2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	20850 (2510.00 MHz) 21100 (2535.00 MHz) 21350 (2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full 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	21100 (2535.00 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
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

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 / 64QAM	1 RB Half RB Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	23095 (707.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	23017 (699.70 MHz) 23095 (707.50 MHz) 23173 (715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	23025 (700.50 MHz) 23095 (707.50 MHz) 23165 (714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	23035 (701.50 MHz) 23095 (707.50 MHz) 23155 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	23060 (704.00 MHz) 23095 (707.50 MHz) 23130 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full 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	23095 (707.50 MHz)	5 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
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

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 / 64QAM	1 RB Half RB Full RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	23205 (779.50 MHz) 23230 (782.00 MHz) 23255 (784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	23230 (782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full 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
Frequency Stability	23205 (779.50 MHz) 23255 (784.50 MHz)	5 MHz	QPSK	Full RB
	23230 (782.00 MHz)	10 MHz	QPSK	Full 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 / 64QAM	1 RB Half RB Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
Occupied Bandwidth	23305 (790.50 MHz) 23330 (793.00 MHz) 23355 (795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	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
Frequency Stability	23305 (790.50 MHz) 23355 (795.50 MHz)	5 MHz	QPSK	Full RB
	23330 (793.00 MHz)	10 MHz	QPSK	Full 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 / 64QAM	1 RB Half RB Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	23790 (710.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	23755 (706.50 MHz) 23790 (710.00 MHz) 23825 (713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	23780 (709.00 MHz) 23790 (710.00 MHz) 23800 (711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full 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
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

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 / 64QAM	1 RB Half RB Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	26365 (1882.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Occupied Bandwidth	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	26055 (1851.50 MHz) 26365 (1882.50 MHz) 26675 (1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	26065 (1852.50 MHz) 26365 (1882.50 MHz) 26665 (1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	26090 (1855.00 MHz) 26365 (1882.50 MHz) 26640 (1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	26115 (1857.50 MHz) 26365 (1882.50 MHz) 26615 (1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	26140 (1860.00 MHz) 26365 (1882.50 MHz) 26590 (1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
	Conducted Emission	26047 (1850.70 MHz) 26365 (1882.50 MHz) 26683 (1914.30 MHz)	1.4 MHz	QPSK
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		26365 (1882.50 MHz)	20 MHz	QPSK
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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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

For LTE Band 26 (Part 90)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26740 (819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	26740 (819.00 MHz)	10MHz	QPSK / 16QAM / 64QAM	Full RB
Occupied Bandwidth	26697 (814.70 MHz) 26740 (819.00 MHz) 26783 (823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	26705 (815.50 MHz) 26740 (819.00 MHz) 26775 (822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	26715 (816.50 MHz) 26740 (819.00 MHz) 26765 (821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	26740 (819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	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
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

For LTE Band 26 (Part 22)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	26915 (836.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	26805 (825.50 MHz) 26915 (836.50 MHz) 27025 (847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	26815 (826.50 MHz) 26915 (836.50 MHz) 27015 (846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	26840 (829.00 MHz) 26915 (836.50 MHz) 26990 (844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	26865 (831.50 MHz) 26915 (836.50 MHz) 26965 (841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	26797 (824.70 MHz) 26915 (836.50 MHz) 27033 (848.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	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	26915 (836.50 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
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

For LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
EIRP	40065 (2537.50 MHz) 40640 (2595.00 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	40090 (2540.00 MHz) 40640 (2595.00 MHz) 41190 (2650.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	40115 (2542.50 MHz) 40640 (2595.00 MHz) 41165 (2647.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	40140 (2545.00 MHz) 40640 (2595.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	40640 (2595.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	40065 (2537.50 MHz) 40640 (2595.00 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	40090 (2540.00 MHz) 40640 (2595.00 MHz) 41190 (2650.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	40115 (2542.50 MHz) 40640 (2595.00 MHz) 41165 (2647.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	40140 (2545.00 MHz) 40640 (2595.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	40065 (2537.50 MHz) 40640 (2595.00 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	40090 (2540.00 MHz) 40640 (2595.00 MHz) 41190 (2650.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	40115 (2542.50 MHz) 40640 (2595.00 MHz) 41165 (2647.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	40140 (2545.00 MHz) 40640 (2595.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Emission	40065 (2537.50 MHz) 40640 (2595.00 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK	1 RB Full RB
	40090 (2540.00 MHz) 40640 (2595.00 MHz) 41190 (2650.00 MHz)	10 MHz	QPSK	1 RB Full RB
	40115 (2542.50 MHz) 40640 (2595.00 MHz) 41165 (2647.50 MHz)	15 MHz	QPSK	1 RB Full RB
	40140 (2545.00 MHz) 40640 (2595.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	40640 (2595.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	40065 (2537.50 MHz) 40640 (2595.00 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK	1 RB
	40140 (2545.00 MHz) 40640 (2595.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	40065 (2537.50 MHz) 41215 (2652.50 MHz)	5 MHz	QPSK	Full RB
	40090 (2540.00 MHz) 41190 (2650.00 MHz)	10 MHz	QPSK	Full RB
	40115 (2542.50 MHz) 41165 (2647.50 MHz)	15 MHz	QPSK	Full RB
	40140 (2545.00 MHz) 41140 (2645.00 MHz)	20 MHz	QPSK	Full 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 / 64QAM	1 RB Half RB Full RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	132322 (1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	1 RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	1 RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Occupied Bandwidth	131979 (1710.70 MHz) 132322 (1745.00 MHz) 132665 (1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM	Full RB
	131987 (1711.50 MHz) 132322 (1745.00 MHz) 132657 (1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM	Full RB
	131997 (1712.50 MHz) 132322 (1745.00 MHz) 132647 (1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	132022 (1715.00 MHz) 132322 (1745.00 MHz) 132622 (1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	132047 (1717.50 MHz) 132322 (1745.00 MHz) 132597 (1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	132072 (1720.00 MHz) 132322 (1745.00 MHz) 132572 (1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full 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

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
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

For LTE Band 71

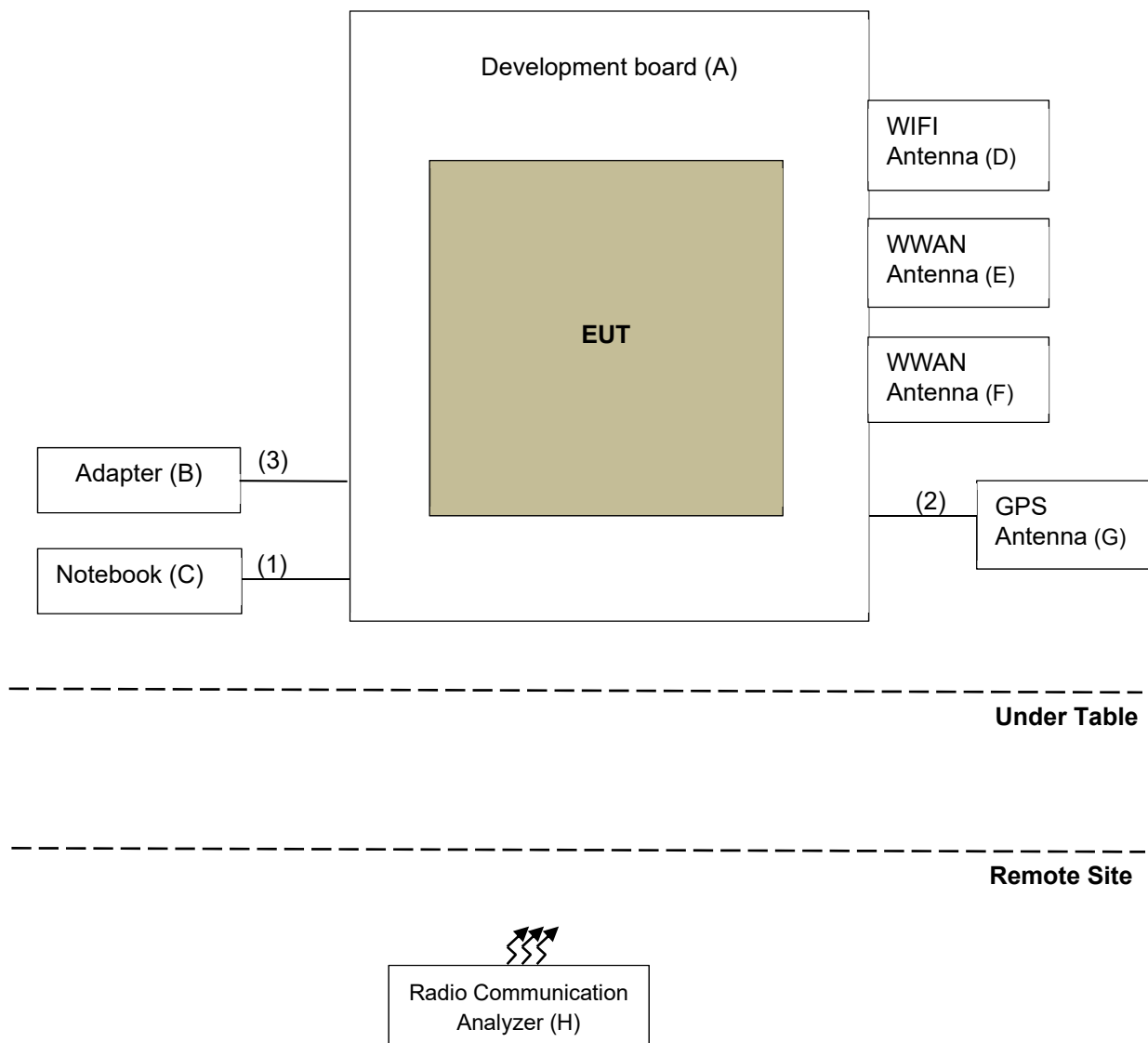
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
ERP	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB Half RB Full RB
Modulation Characteristics	133297 (680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full RB
Peak to Average Ratio	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB
Occupied Bandwidth	133147 (665.50 MHz) 133297 (680.50 MHz) 133447 (695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	Full RB
	133172 (668.00 MHz) 133297 (680.50 MHz) 133422 (693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	Full RB
	133197 (670.50 MHz) 133297 (680.50 MHz) 133397 (690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	Full RB
	133222 (673.00 MHz) 133297 (680.50 MHz) 133372 (688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	Full 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	133297 (680.50 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
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

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	Development board	NA	NA	NA	NA	Supplied by applicant
B	Adapter	AODA	A938-055200W-US1	NA	NA	Supplied by applicant
C	Notebook	Lenovo	X250ALT5	PC06HPSE	NA	Provided by Lab
D	WIFI Antenna	ZTX	1.22.00648	NA	NA	Supplied by applicant
E	WWAN Antenna	ZTX	1.22.00573	NA	NA	Supplied by applicant
F	WWAN Antenna	ZTX	1.22.00573	NA	NA	Supplied by applicant
G	GPS Antenna	HUIZHOU SPEED WIRELESS TECHNOLOGY CO., LTD.	L500MM	NA	NA	Supplied by applicant
H	Radio Communication Test Station	Anritsu	MT8821C	6272278310	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type-C cable	1	1	N	0	Provided by Lab
2	GPS cable	1	1	N	0	Supplied by applicant
3	DC power cable	1	1	N	0	Supplied by applicant

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: 2023/9/15 ~ 2023/10/5

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 & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2022/10/20	2023/10/19
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier Agilent	8447D	2944A10638	2023/5/7	2024/5/6
Preamplifier EMCI	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2023/5/7	2024/5/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/9/27 ~ 2023/10/3

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2022/11/13	2023/11/12
	BBHA 9170	9170-480	2022/11/13	2023/11/12
		BBHA9170243	2022/11/13	2023/11/12
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter Micro-Tronics	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Preamplifier Agilent	8449B	3008A02367	2023/2/15	2024/2/14
Preamplifier EMCI	EMC 184045	980116	2022/10/1 2023/9/27	2023/9/30 2024/9/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
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
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2023/9/15 ~ 2023/10/5

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	2023/07/06	2024/07/05
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: 2023/9/15 ~ 2023/10/5

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 than $43 + 10 \log(P)$ 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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 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 $43 + 10 \log_{10}(P)$ 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:

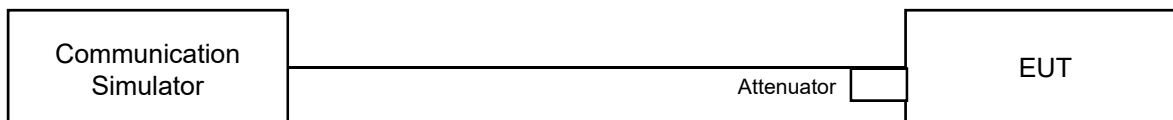
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

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 average (rms) 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.

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:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

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

where

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

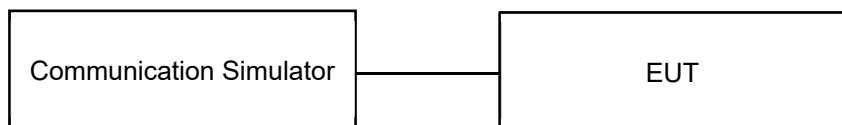
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

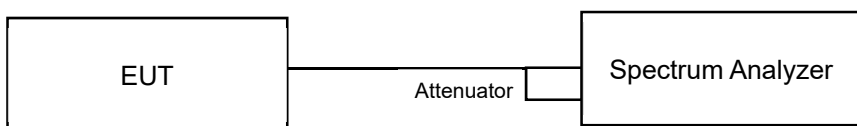


6.2.2 Test Procedure

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

- Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- 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.

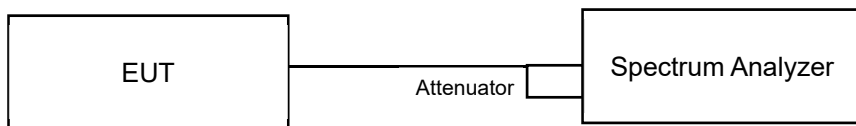
- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, 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.

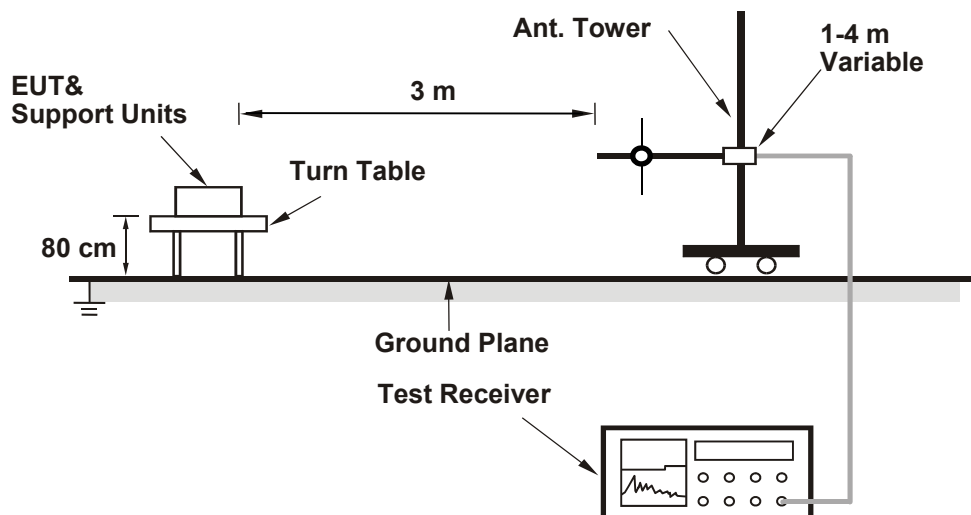
For Emission Mask:

- 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 test software or key-in commands 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.

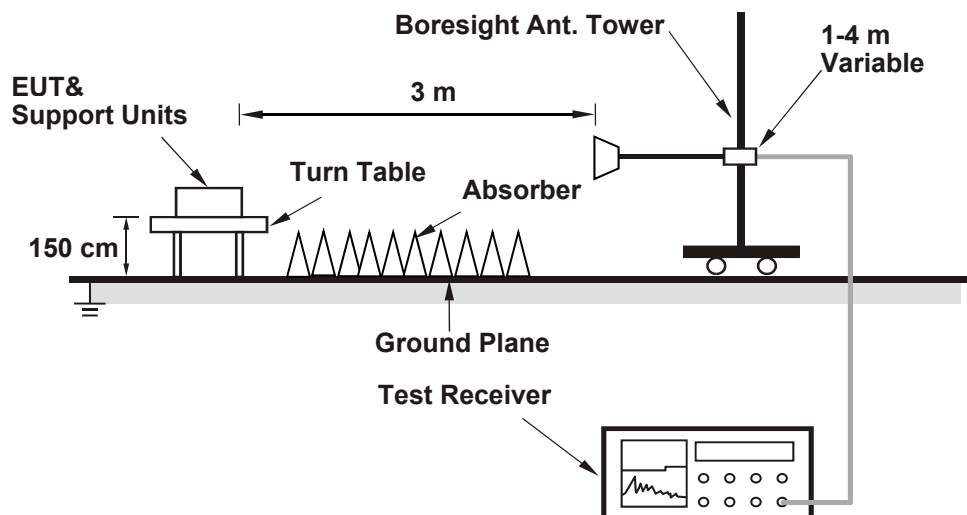
Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
- 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 test software or key-in commands to set data modulation and maximum power using WWAN technology.

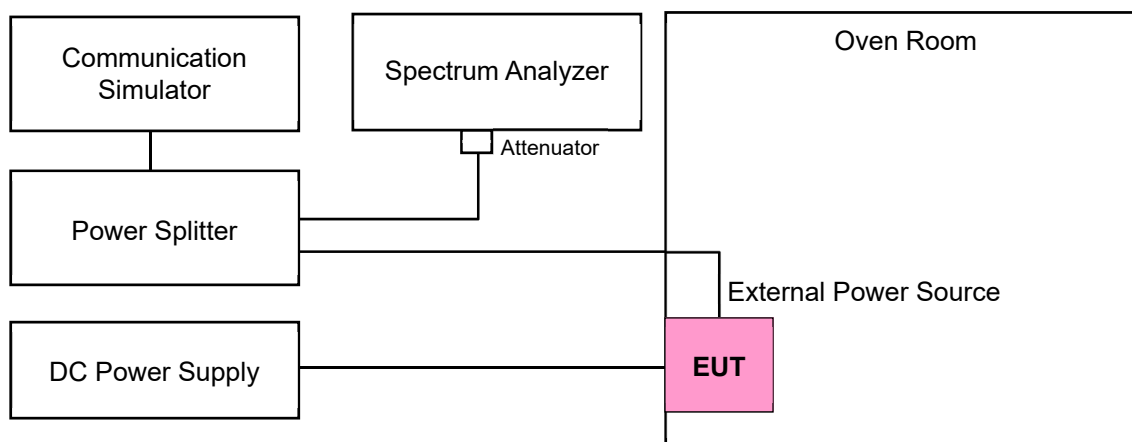
- In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. 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 test software or key-in commands to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements.

- a. 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.
- b. 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:	3.8 Vdc	Environmental Conditions:	21°C, 72% 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	22.35	22.43	22.29
		1	50	22.01	21.87	21.89
		1	99	22.30	21.99	21.66
		50	0	21.37	21.28	21.15
		50	25	21.30	21.15	21.10
		50	50	21.23	21.16	20.94
		100	0	21.20	21.22	21.16
20M	16QAM	1	0	21.43	20.77	20.53
		1	50	21.31	21.20	20.79
		1	99	20.60	20.99	20.92
		50	0	20.32	20.12	20.05
		50	25	20.21	20.05	20.00
		50	50	20.32	20.15	19.80
		100	0	20.12	20.11	19.88
20M	64QAM	1	0	20.48	19.76	19.50
		1	50	20.28	20.11	19.78
		1	99	19.67	20.01	19.98
		50	0	19.38	19.18	19.07
		50	25	19.21	19.08	18.95
		50	50	19.39	19.11	18.82
		100	0	19.13	19.19	18.85



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	22.26	22.11	22.15
		1	37	22.06	22.09	22.00
		1	74	22.18	22.02	21.66
		36	0	21.28	21.07	20.92
		36	19	21.20	21.00	20.85
		36	39	21.23	21.06	20.84
		75	0	21.23	21.08	20.90
15M	16QAM	1	0	20.74	21.07	20.84
		1	37	21.29	20.52	20.97
		1	74	20.72	20.70	20.06
		36	0	20.23	20.00	19.86
		36	19	20.07	20.05	19.89
		36	39	20.12	20.07	19.65
		75	0	20.13	20.03	19.98
15M	64QAM	1	0	19.66	19.99	19.89
		1	37	20.33	19.43	19.98
		1	74	19.66	19.76	19.04
		36	0	19.21	19.12	18.97
		36	19	19.13	18.98	18.94
		36	39	19.12	19.00	18.67
		75	0	19.08	19.00	19.06

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.20	22.25	22.05
		1	24	21.89	21.82	21.65
		1	49	22.08	21.94	21.49
		25	0	21.19	21.04	20.90
		25	12	21.21	21.07	20.92
		25	25	21.21	20.99	20.69
		50	0	21.25	21.05	20.85
10M	16QAM	1	0	20.95	20.36	21.10
		1	24	21.29	20.80	20.43
		1	49	21.23	20.49	20.52
		25	0	20.15	19.94	19.90
		25	12	20.02	19.98	19.87
		25	25	20.03	19.94	19.54
		50	0	20.13	19.98	19.76
10M	64QAM	1	0	19.86	19.28	20.07
		1	24	20.28	19.89	19.47
		1	49	20.19	19.54	19.52
		25	0	19.19	19.05	19.01
		25	12	19.05	19.09	18.91
		25	25	19.11	18.90	18.47
		50	0	19.09	18.92	18.88

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	22.11	22.23	21.75
		1	12	21.39	21.62	21.26
		1	24	21.77	21.93	21.10
		12	0	20.75	20.97	20.53
		12	6	20.87	20.98	20.42
		12	13	20.84	20.94	20.45
		25	0	20.85	20.91	20.49
5M	16QAM	1	0	20.93	20.84	20.16
		1	12	20.88	20.55	20.52
		1	24	20.33	20.19	20.18
		12	0	19.78	19.94	19.54
		12	6	19.75	20.01	19.44
		12	13	19.90	19.64	19.45
		25	0	19.76	20.14	19.26
5M	64QAM	1	0	20.04	19.81	19.16
		1	12	19.90	19.58	19.49
		1	24	19.29	19.28	19.18
		12	0	18.75	18.96	18.65
		12	6	18.85	19.01	18.44
		12	13	18.98	18.76	18.39
		25	0	18.67	19.23	18.17

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	22.10	21.94	21.89
		1	7	21.92	21.83	21.64
		1	14	22.16	21.85	21.42
		8	0	21.26	21.03	20.89
		8	3	21.23	21.10	20.78
		8	7	21.19	21.05	20.75
		15	0	21.14	21.03	20.78
3M	16QAM	1	0	20.63	20.39	20.59
		1	7	20.73	21.09	20.49
		1	14	20.91	20.92	20.64
		8	0	20.11	19.92	19.65
		8	3	20.21	19.81	19.88
		8	7	20.12	19.87	19.88
		15	0	19.99	19.95	19.61
3M	64QAM	1	0	19.63	19.49	19.59
		1	7	19.64	20.10	19.49
		1	14	19.83	19.95	19.70
		8	0	19.02	18.96	18.71
		8	3	19.23	18.72	18.85
		8	7	19.10	18.97	18.97
		15	0	18.91	19.01	18.61



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	22.03	22.05	21.91
		1	2	22.02	21.80	21.74
		1	5	21.85	21.81	21.57
		3	0	22.08	21.93	21.67
		3	1	21.91	21.93	21.78
		3	3	21.96	21.98	21.75
		6	0	20.99	21.06	20.58
1.4M	16QAM	1	0	20.57	20.73	20.78
		1	2	20.97	20.57	20.54
		1	5	20.92	20.47	20.95
		3	0	21.09	20.89	20.62
		3	1	20.92	21.00	20.64
		3	3	20.99	20.78	20.71
		6	0	19.93	19.83	19.54
1.4M	64QAM	1	0	19.67	19.82	19.85
		1	2	19.90	19.61	19.59
		1	5	19.99	19.53	19.88
		3	0	20.05	19.98	19.72
		3	1	19.95	20.08	19.74
		3	3	20.07	19.73	19.76
		6	0	18.87	18.95	18.45

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	24.51	24.59	24.45
		1	50	24.17	24.03	24.05
		1	99	24.46	24.15	23.82
		50	0	23.53	23.44	23.31
		50	25	23.46	23.31	23.26
		50	50	23.39	23.32	23.10
		100	0	23.36	23.38	23.32
20M	16QAM	1	0	23.59	22.93	22.69
		1	50	23.47	23.36	22.95
		1	99	22.76	23.15	23.08
		50	0	22.48	22.28	22.21
		50	25	22.37	22.21	22.16
		50	50	22.48	22.31	21.96
		100	0	22.28	22.27	22.04
20M	64QAM	1	0	22.64	21.92	21.66
		1	50	22.44	22.27	21.94
		1	99	21.83	22.17	22.14
		50	0	21.54	21.34	21.23
		50	25	21.37	21.24	21.11
		50	50	21.55	21.27	20.98
		100	0	21.29	21.35	21.01

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

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	24.42	24.27	24.31
		1	37	24.22	24.25	24.16
		1	74	24.34	24.18	23.82
		36	0	23.44	23.23	23.08
		36	19	23.36	23.16	23.01
		36	39	23.39	23.22	23.00
		75	0	23.39	23.24	23.06
15M	16QAM	1	0	22.90	23.23	23.00
		1	37	23.45	22.68	23.13
		1	74	22.88	22.86	22.22
		36	0	22.39	22.16	22.02
		36	19	22.23	22.21	22.05
		36	39	22.28	22.23	21.81
		75	0	22.29	22.19	22.14
15M	64QAM	1	0	21.82	22.15	22.05
		1	37	22.49	21.59	22.14
		1	74	21.82	21.92	21.20
		36	0	21.37	21.28	21.13
		36	19	21.29	21.14	21.10
		36	39	21.28	21.16	20.83
		75	0	21.24	21.16	21.22

*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	24.36	24.41	24.21
		1	24	24.05	23.98	23.81
		1	49	24.24	24.10	23.65
		25	0	23.35	23.20	23.06
		25	12	23.37	23.23	23.08
		25	25	23.37	23.15	22.85
		50	0	23.41	23.21	23.01
10M	16QAM	1	0	23.11	22.52	23.26
		1	24	23.45	22.96	22.59
		1	49	23.39	22.65	22.68
		25	0	22.31	22.10	22.06
		25	12	22.18	22.14	22.03
		25	25	22.19	22.10	21.70
		50	0	22.29	22.14	21.92
10M	64QAM	1	0	22.02	21.44	22.23
		1	24	22.44	22.05	21.63
		1	49	22.35	21.70	21.68
		25	0	21.35	21.21	21.17
		25	12	21.21	21.25	21.07
		25	25	21.27	21.06	20.63
		50	0	21.25	21.08	21.04

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



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	24.27	24.39	23.91
		1	12	23.55	23.78	23.42
		1	24	23.93	24.09	23.26
		12	0	22.91	23.13	22.69
		12	6	23.03	23.14	22.58
		12	13	23.00	23.10	22.61
		25	0	23.01	23.07	22.65
5M	16QAM	1	0	23.09	23.00	22.32
		1	12	23.04	22.71	22.68
		1	24	22.49	22.35	22.34
		12	0	21.94	22.10	21.70
		12	6	21.91	22.17	21.60
		12	13	22.06	21.80	21.61
		25	0	21.92	22.30	21.42
5M	64QAM	1	0	22.20	21.97	21.32
		1	12	22.06	21.74	21.65
		1	24	21.45	21.44	21.34
		12	0	20.91	21.12	20.81
		12	6	21.01	21.17	20.60
		12	13	21.14	20.92	20.55
		25	0	20.83	21.39	20.33

*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	24.26	24.10	24.05
		1	7	24.08	23.99	23.80
		1	14	24.32	24.01	23.58
		8	0	23.42	23.19	23.05
		8	3	23.39	23.26	22.94
		8	7	23.35	23.21	22.91
		15	0	23.30	23.19	22.94
3M	16QAM	1	0	22.79	22.55	22.75
		1	7	22.89	23.25	22.65
		1	14	23.07	23.08	22.80
		8	0	22.27	22.08	21.81
		8	3	22.37	21.97	22.04
		8	7	22.28	22.03	22.04
		15	0	22.15	22.11	21.77
3M	64QAM	1	0	21.79	21.65	21.75
		1	7	21.80	22.26	21.65
		1	14	21.99	22.11	21.86
		8	0	21.18	21.12	20.87
		8	3	21.39	20.88	21.01
		8	7	21.26	21.13	21.13
		15	0	21.07	21.17	20.77

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

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	24.19	24.21	24.07
		1	2	24.18	23.96	23.90
		1	5	24.01	23.97	23.73
		3	0	24.24	24.09	23.83
		3	1	24.07	24.09	23.94
		3	3	24.12	24.14	23.91
		6	0	23.15	23.22	22.74
1.4M	16QAM	1	0	22.73	22.89	22.94
		1	2	23.13	22.73	22.70
		1	5	23.08	22.63	23.11
		3	0	23.25	23.05	22.78
		3	1	23.08	23.16	22.80
		3	3	23.15	22.94	22.87
		6	0	22.09	21.99	21.70
1.4M	64QAM	1	0	21.83	21.98	22.01
		1	2	22.06	21.77	21.75
		1	5	22.15	21.69	22.04
		3	0	22.21	22.14	21.88
		3	1	22.11	22.24	21.90
		3	3	22.23	21.89	21.92
		6	0	21.03	21.11	20.61

*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	22.69	22.77	22.70
		1	50	22.35	22.52	22.36
		1	99	22.14	22.10	22.63
		50	0	21.76	21.38	21.70
		50	25	21.76	21.40	21.59
		50	50	21.44	21.46	21.55
		100	0	21.60	21.42	21.70
20M	16QAM	1	0	21.40	21.38	21.24
		1	50	21.16	21.00	21.69
		1	99	21.11	20.97	21.77
		50	0	20.78	20.30	20.68
		50	25	20.60	20.35	20.66
		50	50	20.44	20.30	20.71
		100	0	20.56	20.28	20.63
20M	64QAM	1	0	20.35	20.42	20.19
		1	50	20.07	20.10	20.63
		1	99	20.06	19.98	20.78
		50	0	19.74	19.42	19.77
		50	25	19.72	19.47	19.70
		50	50	19.41	19.37	19.63
		100	0	19.52	19.21	19.55

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	22.73	22.33	22.56
		1	37	22.52	22.44	22.41
		1	74	22.34	22.24	22.43
		36	0	21.51	21.33	21.39
		36	19	21.55	21.27	21.51
		36	39	21.36	21.28	21.57
		75	0	21.44	21.35	21.61
15M	16QAM	1	0	21.64	21.09	21.24
		1	37	21.56	21.25	21.64
		1	74	21.31	21.24	21.24
		36	0	20.55	20.28	20.36
		36	19	20.52	20.35	20.59
		36	39	20.39	20.13	20.56
		75	0	20.49	20.26	20.56
15M	64QAM	1	0	20.62	20.06	20.30
		1	37	20.58	20.36	20.65
		1	74	20.30	20.34	20.35
		36	0	19.62	19.30	19.39
		36	19	19.47	19.26	19.69
		36	39	19.35	19.24	19.59
		75	0	19.55	19.21	19.62



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	22.38	22.23	22.54
		1	24	22.19	22.26	22.16
		1	49	22.43	21.90	22.47
		25	0	21.52	21.15	21.59
		25	12	21.53	21.29	21.59
		25	25	21.48	21.25	21.54
		50	0	21.32	21.17	21.61
10M	16QAM	1	0	21.33	21.14	21.12
		1	24	20.92	20.98	21.37
		1	49	21.19	21.11	21.53
		25	0	20.60	20.23	20.36
		25	12	20.38	20.26	20.48
		25	25	20.52	20.32	20.50
		50	0	20.57	20.23	20.55
10M	64QAM	1	0	20.33	20.23	20.24
		1	24	19.94	19.90	20.41
		1	49	20.19	20.16	20.62
		25	0	19.59	19.25	19.31
		25	12	19.38	19.24	19.60
		25	25	19.43	19.39	19.58
		50	0	19.63	19.28	19.48

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	22.52	22.14	22.26
		1	12	21.95	21.85	22.16
		1	24	22.39	21.72	22.62
		12	0	21.36	21.17	21.56
		12	6	21.37	21.23	21.60
		12	13	21.27	21.20	21.79
		25	0	21.27	21.20	21.67
5M	16QAM	1	0	21.41	21.34	21.65
		1	12	21.74	21.16	21.06
		1	24	21.20	20.84	21.84
		12	0	20.16	20.23	20.41
		12	6	20.38	20.16	20.56
		12	13	20.32	20.24	20.75
		25	0	20.17	20.34	20.46
5M	64QAM	1	0	20.46	20.32	20.76
		1	12	20.83	20.14	20.04
		1	24	20.30	19.95	20.95
		12	0	19.10	19.15	19.38
		12	6	19.37	19.21	19.52
		12	13	19.23	19.32	19.77
		25	0	19.26	19.25	19.40

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	22.75	22.29	22.67
		1	7	22.46	22.11	22.54
		1	14	22.54	22.04	22.75
		8	0	21.52	21.32	21.56
		8	3	21.58	21.40	21.54
		8	7	21.59	21.25	21.58
		15	0	21.47	21.33	21.56
3M	16QAM	1	0	21.28	21.33	21.00
		1	7	21.64	21.35	21.10
		1	14	21.52	20.90	21.45
		8	0	20.26	20.00	20.30
		8	3	20.25	19.99	20.56
		8	7	20.70	20.40	20.53
		15	0	20.34	20.22	20.41
3M	64QAM	1	0	20.23	20.29	20.03
		1	7	20.60	20.28	20.22
		1	14	20.43	19.91	20.41
		8	0	19.28	19.09	19.34
		8	3	19.37	19.02	19.49
		8	7	19.69	19.37	19.63
		15	0	19.33	19.20	19.42

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	22.41	22.45	22.55
		1	2	22.33	22.28	22.45
		1	5	22.23	22.16	22.71
		3	0	22.28	22.14	22.26
		3	1	22.22	22.19	22.45
		3	3	22.39	22.31	22.71
		6	0	21.43	21.28	21.58
1.4M	16QAM	1	0	21.36	21.14	21.26
		1	2	21.10	20.83	21.73
		1	5	21.26	20.54	21.70
		3	0	21.49	21.37	21.61
		3	1	21.59	21.35	21.65
		3	3	21.50	21.13	21.96
		6	0	20.33	20.16	20.73
1.4M	64QAM	1	0	20.28	20.10	20.19
		1	2	20.07	19.81	20.73
		1	5	20.33	19.56	20.82
		3	0	20.42	20.37	20.61
		3	1	20.61	20.35	20.72
		3	3	20.43	20.13	20.89
		6	0	19.29	19.13	19.79

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	24.75	24.83	24.76
		1	50	24.41	24.58	24.42
		1	99	24.20	24.16	24.69
		50	0	23.82	23.44	23.76
		50	25	23.82	23.46	23.65
		50	50	23.50	23.52	23.61
		100	0	23.66	23.48	23.76
20M	16QAM	1	0	23.46	23.44	23.30
		1	50	23.22	23.06	23.75
		1	99	23.17	23.03	23.83
		50	0	22.84	22.36	22.74
		50	25	22.66	22.41	22.72
		50	50	22.50	22.36	22.77
		100	0	22.62	22.34	22.69
20M	64QAM	1	0	22.41	22.48	22.25
		1	50	22.13	22.16	22.69
		1	99	22.12	22.04	22.84
		50	0	21.80	21.48	21.83
		50	25	21.78	21.53	21.76
		50	50	21.47	21.43	21.69
		100	0	21.58	21.27	21.61

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



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	24.79	24.39	24.62
		1	37	24.58	24.50	24.47
		1	74	24.40	24.30	24.49
		36	0	23.57	23.39	23.45
		36	19	23.61	23.33	23.57
		36	39	23.42	23.34	23.63
		75	0	23.50	23.41	23.67
15M	16QAM	1	0	23.70	23.15	23.30
		1	37	23.62	23.31	23.70
		1	74	23.37	23.30	23.30
		36	0	22.61	22.34	22.42
		36	19	22.58	22.41	22.65
		36	39	22.45	22.19	22.62
		75	0	22.55	22.32	22.62
15M	64QAM	1	0	22.68	22.12	22.36
		1	37	22.64	22.42	22.71
		1	74	22.36	22.40	22.41
		36	0	21.68	21.36	21.45
		36	19	21.53	21.32	21.75
		36	39	21.41	21.30	21.65
		75	0	21.61	21.27	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	24.44	24.29	24.60
		1	24	24.25	24.32	24.22
		1	49	24.49	23.96	24.53
		25	0	23.58	23.21	23.65
		25	12	23.59	23.35	23.65
		25	25	23.54	23.31	23.60
		50	0	23.38	23.23	23.67
10M	16QAM	1	0	23.39	23.20	23.18
		1	24	22.98	23.04	23.43
		1	49	23.25	23.17	23.59
		25	0	22.66	22.29	22.42
		25	12	22.44	22.32	22.54
		25	25	22.58	22.38	22.56
		50	0	22.63	22.29	22.61
10M	64QAM	1	0	22.39	22.29	22.30
		1	24	22.00	21.96	22.47
		1	49	22.25	22.22	22.68
		25	0	21.65	21.31	21.37
		25	12	21.44	21.30	21.66
		25	25	21.49	21.45	21.64
		50	0	21.69	21.34	21.54

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

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	24.58	24.20	24.32
		1	12	24.01	23.91	24.22
		1	24	24.45	23.78	24.68
		12	0	23.42	23.23	23.62
		12	6	23.43	23.29	23.66
		12	13	23.33	23.26	23.85
		25	0	23.33	23.26	23.73
5M	16QAM	1	0	23.47	23.40	23.71
		1	12	23.80	23.22	23.12
		1	24	23.26	22.90	23.90
		12	0	22.22	22.29	22.47
		12	6	22.44	22.22	22.62
		12	13	22.38	22.30	22.81
		25	0	22.23	22.40	22.52
5M	64QAM	1	0	22.52	22.38	22.82
		1	12	22.89	22.20	22.10
		1	24	22.36	22.01	23.01
		12	0	21.16	21.21	21.44
		12	6	21.43	21.27	21.58
		12	13	21.29	21.38	21.83
		25	0	21.32	21.31	21.46

*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	24.81	24.35	24.73
		1	7	24.52	24.17	24.60
		1	14	24.60	24.10	24.81
		8	0	23.58	23.38	23.62
		8	3	23.64	23.46	23.60
		8	7	23.65	23.31	23.64
		15	0	23.53	23.39	23.62
3M	16QAM	1	0	23.34	23.39	23.06
		1	7	23.70	23.41	23.16
		1	14	23.58	22.96	23.51
		8	0	22.32	22.06	22.36
		8	3	22.31	22.05	22.62
		8	7	22.76	22.46	22.59
		15	0	22.40	22.28	22.47
3M	64QAM	1	0	22.29	22.35	22.09
		1	7	22.66	22.34	22.28
		1	14	22.49	21.97	22.47
		8	0	21.34	21.15	21.40
		8	3	21.43	21.08	21.55
		8	7	21.75	21.43	21.69
		15	0	21.39	21.26	21.48

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

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	24.47	24.51	24.61
		1	2	24.39	24.34	24.51
		1	5	24.29	24.22	24.77
		3	0	24.34	24.20	24.32
		3	1	24.28	24.25	24.51
		3	3	24.45	24.37	24.77
		6	0	23.49	23.34	23.64
1.4M	16QAM	1	0	23.42	23.20	23.32
		1	2	23.16	22.89	23.79
		1	5	23.32	22.60	23.76
		3	0	23.55	23.43	23.67
		3	1	23.65	23.41	23.71
		3	3	23.56	23.19	24.02
		6	0	22.39	22.22	22.79
1.4M	64QAM	1	0	22.34	22.16	22.25
		1	2	22.13	21.87	22.79
		1	5	22.39	21.62	22.88
		3	0	22.48	22.43	22.67
		3	1	22.67	22.41	22.78
		3	3	22.49	22.19	22.95
		6	0	21.35	21.19	21.85

*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	22.85	23.46	23.28
		1	24	22.66	22.72	22.65
		1	49	22.80	22.80	22.60
		25	0	21.89	21.96	22.09
		25	12	22.15	21.99	22.21
		25	25	22.10	21.87	22.14
		50	0	21.98	22.00	22.15
10M	16QAM	1	0	21.71	22.19	21.86
		1	24	21.91	22.04	21.91
		1	49	21.62	21.70	21.53
		25	0	20.83	20.92	21.17
		25	12	21.03	20.90	21.17
		25	25	20.89	21.26	21.06
		50	0	20.93	21.01	21.13
10M	64QAM	1	0	20.78	21.20	20.82
		1	24	20.88	21.12	20.83
		1	49	20.58	20.71	20.51
		25	0	19.95	19.90	20.28
		25	12	20.06	19.99	20.18
		25	25	20.01	20.30	20.02
		50	0	19.87	20.03	20.15



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	23.18	23.12	23.23
		1	12	22.66	22.60	22.81
		1	24	22.51	22.47	22.86
		12	0	21.75	21.90	21.98
		12	6	21.81	21.86	22.06
		12	13	21.82	21.82	21.81
		25	0	21.81	21.87	22.03
5M	16QAM	1	0	21.38	21.97	21.64
		1	12	21.98	21.90	21.83
		1	24	21.72	21.35	21.34
		12	0	20.72	20.77	20.87
		12	6	21.03	21.02	21.13
		12	13	20.74	20.70	20.82
		25	0	20.67	20.98	21.02
5M	64QAM	1	0	20.34	20.89	20.76
		1	12	20.94	20.98	20.94
		1	24	20.71	20.37	20.43
		12	0	19.70	19.78	19.87
		12	6	20.05	19.98	20.07
		12	13	19.83	19.75	19.74
		25	0	19.75	19.93	20.12

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	22.98	23.04	23.26
		1	7	22.65	22.79	22.97
		1	14	22.66	22.51	23.01
		8	0	21.96	21.98	22.38
		8	3	21.85	21.92	21.94
		8	7	21.86	21.93	22.01
		15	0	21.89	21.91	22.04
3M	16QAM	1	0	22.49	21.51	21.92
		1	7	21.87	21.68	21.61
		1	14	21.24	22.09	21.84
		8	0	20.89	20.50	21.07
		8	3	21.07	21.04	21.12
		8	7	20.84	20.98	21.21
		15	0	20.86	20.76	20.95
3M	64QAM	1	0	21.42	20.43	20.83
		1	7	20.87	20.74	20.69
		1	14	20.21	21.19	20.96
		8	0	19.80	19.43	20.15
		8	3	20.09	20.15	20.03
		8	7	19.80	20.01	20.13
		15	0	19.85	19.81	19.90



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	22.94	22.99	23.33
		1	2	22.94	22.84	22.79
		1	5	22.95	22.90	22.85
		3	0	22.99	22.91	22.95
		3	1	22.93	22.86	23.30
		3	3	23.06	22.95	22.90
		6	0	21.99	21.95	21.95
1.4M	16QAM	1	0	22.00	21.77	21.49
		1	2	21.82	21.92	21.64
		1	5	21.87	21.89	22.27
		3	0	21.83	22.05	21.87
		3	1	22.06	21.87	22.02
		3	3	22.05	21.95	21.88
		6	0	20.85	20.87	21.00
1.4M	64QAM	1	0	21.00	20.74	20.55
		1	2	20.74	20.83	20.76
		1	5	20.82	20.86	21.23
		3	0	20.76	21.17	20.79
		3	1	21.10	20.86	20.98
		3	3	21.12	20.96	20.93
		6	0	19.93	19.83	20.02

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	23.01	23.62	23.44
		1	24	22.82	22.88	22.81
		1	49	22.96	22.96	22.76
		25	0	22.05	22.12	22.25
		25	12	22.31	22.15	22.37
		25	25	22.26	22.03	22.30
		50	0	22.14	22.16	22.31
10M	16QAM	1	0	21.87	22.35	22.02
		1	24	22.07	22.20	22.07
		1	49	21.78	21.86	21.69
		25	0	20.99	21.08	21.33
		25	12	21.19	21.06	21.33
		25	25	21.05	21.42	21.22
		50	0	21.09	21.17	21.29
10M	64QAM	1	0	20.94	21.36	20.98
		1	24	21.04	21.28	20.99
		1	49	20.74	20.87	20.67
		25	0	20.11	20.06	20.44
		25	12	20.22	20.15	20.34
		25	25	20.17	20.46	20.18
		50	0	20.03	20.19	20.31

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



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	23.34	23.28	23.39
		1	12	22.82	22.76	22.97
		1	24	22.67	22.63	23.02
		12	0	21.91	22.06	22.14
		12	6	21.97	22.02	22.22
		12	13	21.98	21.98	21.97
		25	0	21.97	22.03	22.19
5M	16QAM	1	0	21.54	22.13	21.80
		1	12	22.14	22.06	21.99
		1	24	21.88	21.51	21.50
		12	0	20.88	20.93	21.03
		12	6	21.19	21.18	21.29
		12	13	20.90	20.86	20.98
		25	0	20.83	21.14	21.18
5M	64QAM	1	0	20.50	21.05	20.92
		1	12	21.10	21.14	21.10
		1	24	20.87	20.53	20.59
		12	0	19.86	19.94	20.03
		12	6	20.21	20.14	20.23
		12	13	19.99	19.91	19.90
		25	0	19.91	20.09	20.28

*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	23.14	23.20	23.42
		1	7	22.81	22.95	23.13
		1	14	22.82	22.67	23.17
		8	0	22.12	22.14	22.54
		8	3	22.01	22.08	22.10
		8	7	22.02	22.09	22.17
		15	0	22.05	22.07	22.20
3M	16QAM	1	0	22.65	21.67	22.08
		1	7	22.03	21.84	21.77
		1	14	21.40	22.25	22.00
		8	0	21.05	20.66	21.23
		8	3	21.23	21.20	21.28
		8	7	21.00	21.14	21.37
		15	0	21.02	20.92	21.11
3M	64QAM	1	0	21.58	20.59	20.99
		1	7	21.03	20.90	20.85
		1	14	20.37	21.35	21.12
		8	0	19.96	19.59	20.31
		8	3	20.25	20.31	20.19
		8	7	19.96	20.17	20.29
		15	0	20.01	19.97	20.06

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

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	23.10	23.15	23.49
		1	2	23.10	23.00	22.95
		1	5	23.11	23.06	23.01
		3	0	23.15	23.07	23.11
		3	1	23.09	23.02	23.46
		3	3	23.22	23.11	23.06
		6	0	22.15	22.11	22.11
1.4M	16QAM	1	0	22.16	21.93	21.65
		1	2	21.98	22.08	21.80
		1	5	22.03	22.05	22.43
		3	0	21.99	22.21	22.03
		3	1	22.22	22.03	22.18
		3	3	22.21	22.11	22.04
		6	0	21.01	21.03	21.16
1.4M	64QAM	1	0	21.16	20.90	20.71
		1	2	20.90	20.99	20.92
		1	5	20.98	21.02	21.39
		3	0	20.92	21.33	20.95
		3	1	21.26	21.02	21.14
		3	3	21.28	21.12	21.09
		6	0	20.09	19.99	20.18

*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	21.93	22.46	22.23
		1	50	21.21	22.18	22.02
		1	99	21.63	21.70	21.61
		50	0	21.16	20.63	20.96
		50	25	20.94	20.72	20.65
		50	50	20.73	20.87	20.75
		100	0	20.91	20.79	20.79
20M	16QAM	1	0	20.78	20.40	21.41
		1	50	20.93	20.51	20.63
		1	99	19.71	21.08	20.55
		50	0	19.82	19.69	19.98
		50	25	20.07	19.59	19.73
		50	50	19.78	19.83	19.81
		100	0	20.01	19.72	19.79
20M	64QAM	1	0	19.90	19.34	20.37
		1	50	19.92	19.62	19.61
		1	99	18.74	20.20	19.53
		50	0	18.79	18.79	18.91
		50	25	19.08	18.60	18.82
		50	50	18.73	18.79	18.74
		100	0	19.06	18.65	18.84

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	22.12	21.82	21.78
		1	37	22.05	21.67	21.84
		1	74	21.54	21.96	21.53
		36	0	21.04	20.64	20.70
		36	19	21.01	20.53	20.71
		36	39	20.77	20.93	20.64
		75	0	20.89	20.66	20.65
15M	16QAM	1	0	21.14	20.22	20.59
		1	37	21.10	20.30	20.94
		1	74	20.26	20.61	20.03
		36	0	19.94	19.64	19.63
		36	19	19.92	19.59	19.57
		36	39	19.79	19.81	19.69
		75	0	19.92	19.76	19.68
15M	64QAM	1	0	20.12	19.15	19.63
		1	37	20.02	19.30	20.04
		1	74	19.35	19.55	19.00
		36	0	19.03	18.76	18.58
		36	19	19.04	18.70	18.56
		36	39	18.88	18.73	18.75
		75	0	18.99	18.74	18.69



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20800	21100	21400
		Frequency (MHz)		2505	2535	2565
10M	QPSK	1	0	21.78	22.01	22.20
		1	24	21.71	21.33	22.00
		1	49	21.19	21.80	21.86
		25	0	20.92	20.58	20.66
		25	12	20.96	20.51	20.66
		25	25	20.61	20.78	20.66
		50	0	20.83	20.67	20.69
10M	16QAM	1	0	20.66	20.50	20.86
		1	24	20.51	20.05	20.12
		1	49	20.57	21.06	21.02
		25	0	20.06	19.45	19.70
		25	12	20.07	19.51	19.58
		25	25	19.58	19.64	19.72
		50	0	19.76	19.69	19.62
10M	64QAM	1	0	19.64	19.60	19.98
		1	24	19.53	19.01	19.03
		1	49	19.64	19.98	20.06
		25	0	19.10	18.48	18.78
		25	12	19.16	18.61	18.50
		25	25	18.70	18.69	18.65
		50	0	18.78	18.79	18.54



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	22.14	21.73	21.72
		1	12	21.62	21.04	21.21
		1	24	21.44	21.15	21.27
		12	0	20.86	20.57	20.52
		12	6	20.80	20.53	20.56
		12	13	20.78	20.57	20.96
		25	0	20.82	20.51	21.15
5M	16QAM	1	0	21.07	20.49	20.65
		1	12	21.64	20.29	20.71
		1	24	20.41	20.32	19.93
		12	0	19.89	19.39	19.43
		12	6	19.81	19.48	19.49
		12	13	19.61	19.43	19.30
		25	0	19.80	19.32	19.70
5M	64QAM	1	0	20.05	19.53	19.69
		1	12	20.71	19.32	19.68
		1	24	19.51	19.37	18.89
		12	0	18.81	18.37	18.40
		12	6	18.85	18.40	18.58
		12	13	18.52	18.43	18.29
		25	0	18.87	18.35	18.73

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	25.05	25.58	25.35
		1	50	24.33	25.30	25.14
		1	99	24.75	24.82	24.73
		50	0	24.28	23.75	24.08
		50	25	24.06	23.84	23.77
		50	50	23.85	23.99	23.87
		100	0	24.03	23.91	23.91
20M	16QAM	1	0	23.90	23.52	24.53
		1	50	24.05	23.63	23.75
		1	99	22.83	24.20	23.67
		50	0	22.94	22.81	23.10
		50	25	23.19	22.71	22.85
		50	50	22.90	22.95	22.93
		100	0	23.13	22.84	22.91
20M	64QAM	1	0	23.02	22.46	23.49
		1	50	23.04	22.74	22.73
		1	99	21.86	23.32	22.65
		50	0	21.91	21.91	22.03
		50	25	22.20	21.72	21.94
		50	50	21.85	21.91	21.86
		100	0	22.18	21.77	21.96

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

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	25.24	24.94	24.90
		1	37	25.17	24.79	24.96
		1	74	24.66	25.08	24.65
		36	0	24.16	23.76	23.82
		36	19	24.13	23.65	23.83
		36	39	23.89	24.05	23.76
		75	0	24.01	23.78	23.77
15M	16QAM	1	0	24.26	23.34	23.71
		1	37	24.22	23.42	24.06
		1	74	23.38	23.73	23.15
		36	0	23.06	22.76	22.75
		36	19	23.04	22.71	22.69
		36	39	22.91	22.93	22.81
		75	0	23.04	22.88	22.80
15M	64QAM	1	0	23.24	22.27	22.75
		1	37	23.14	22.42	23.16
		1	74	22.47	22.67	22.12
		36	0	22.15	21.88	21.70
		36	19	22.16	21.82	21.68
		36	39	22.00	21.85	21.87
		75	0	22.11	21.86	21.81

*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	24.90	25.13	25.32
		1	24	24.83	24.45	25.12
		1	49	24.31	24.92	24.98
		25	0	24.04	23.70	23.78
		25	12	24.08	23.63	23.78
		25	25	23.73	23.90	23.78
		50	0	23.95	23.79	23.81
10M	16QAM	1	0	23.78	23.62	23.98
		1	24	23.63	23.17	23.24
		1	49	23.69	24.18	24.14
		25	0	23.18	22.57	22.82
		25	12	23.19	22.63	22.70
		25	25	22.70	22.76	22.84
		50	0	22.88	22.81	22.74
10M	64QAM	1	0	22.76	22.72	23.10
		1	24	22.65	22.13	22.15
		1	49	22.76	23.10	23.18
		25	0	22.22	21.60	21.90
		25	12	22.28	21.73	21.62
		25	25	21.82	21.81	21.77
		50	0	21.90	21.91	21.66

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

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	25.26	24.85	24.84
		1	12	24.74	24.16	24.33
		1	24	24.56	24.27	24.39
		12	0	23.98	23.69	23.64
		12	6	23.92	23.65	23.68
		12	13	23.90	23.69	24.08
		25	0	23.94	23.63	24.27
5M	16QAM	1	0	24.19	23.61	23.77
		1	12	24.76	23.41	23.83
		1	24	23.53	23.44	23.05
		12	0	23.01	22.51	22.55
		12	6	22.93	22.60	22.61
		12	13	22.73	22.55	22.42
		25	0	22.92	22.44	22.82
5M	64QAM	1	0	23.17	22.65	22.81
		1	12	23.83	22.44	22.80
		1	24	22.63	22.49	22.01
		12	0	21.93	21.49	21.52
		12	6	21.97	21.52	21.70
		12	13	21.64	21.55	21.41
		25	0	21.99	21.47	21.85

*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	23.00	23.44	23.36
		1	24	22.59	22.59	22.73
		1	49	22.62	22.87	22.61
		25	0	21.93	22.03	21.83
		25	12	21.99	21.86	21.89
		25	25	22.04	21.85	21.94
		50	0	21.96	22.02	21.83
10M	16QAM	1	0	21.63	21.77	21.79
		1	24	21.52	21.57	21.55
		1	49	22.03	22.09	21.63
		25	0	20.86	20.93	20.81
		25	12	21.05	20.78	20.85
		25	25	21.06	21.13	20.73
		50	0	21.00	20.97	20.87
10M	64QAM	1	0	20.74	20.82	20.89
		1	24	20.53	20.63	20.56
		1	49	21.06	21.02	20.72
		25	0	19.85	19.92	19.84
		25	12	20.05	19.69	19.93
		25	25	19.99	20.07	19.66
		50	0	20.08	19.88	19.81



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	23.14	23.10	22.93
		1	12	22.45	22.60	22.66
		1	24	22.70	22.38	22.45
		12	0	22.02	22.00	21.92
		12	6	22.08	22.05	21.91
		12	13	22.02	21.87	21.65
		25	0	22.04	21.81	21.85
5M	16QAM	1	0	21.75	22.06	22.01
		1	12	21.67	21.99	21.96
		1	24	21.70	21.10	21.16
		12	0	20.76	20.96	20.90
		12	6	20.89	20.83	20.86
		12	13	20.87	20.85	20.71
		25	0	21.05	20.90	20.86
5M	64QAM	1	0	20.77	21.03	20.99
		1	12	20.79	21.06	20.94
		1	24	20.62	20.11	20.20
		12	0	19.87	19.90	19.83
		12	6	19.99	19.90	19.79
		12	13	19.80	19.83	19.71
		25	0	20.00	19.85	19.95



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	23.10	22.89	23.09
		1	7	22.56	22.76	22.81
		1	14	22.72	22.62	22.71
		8	0	21.98	21.94	21.93
		8	3	21.99	21.88	21.78
		8	7	22.07	21.92	21.71
		15	0	21.98	21.88	21.74
3M	16QAM	1	0	21.67	21.61	21.90
		1	7	22.05	21.94	21.82
		1	14	21.54	21.20	21.03
		8	0	20.97	20.84	20.79
		8	3	21.05	20.95	20.65
		8	7	21.03	20.55	20.90
		15	0	21.04	20.84	20.68
3M	64QAM	1	0	20.71	20.57	20.87
		1	7	21.17	20.93	20.87
		1	14	20.45	20.11	20.09
		8	0	19.97	19.77	19.76
		8	3	20.02	19.97	19.63
		8	7	20.10	19.51	19.89
		15	0	20.08	19.90	19.64



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	23.00	23.15	22.77
		1	2	22.89	22.81	22.67
		1	5	22.87	23.08	22.71
		3	0	22.81	23.06	22.72
		3	1	22.80	22.92	22.92
		3	3	22.80	23.09	22.69
		6	0	21.89	22.11	21.64
1.4M	16QAM	1	0	21.87	22.04	21.45
		1	2	22.00	21.93	21.37
		1	5	21.90	21.39	21.18
		3	0	21.98	22.01	21.48
		3	1	22.08	21.99	21.71
		3	3	21.82	21.90	21.58
		6	0	20.69	20.43	20.23
1.4M	64QAM	1	0	20.91	21.11	20.53
		1	2	20.98	21.03	20.28
		1	5	20.87	20.43	20.20
		3	0	21.01	21.09	20.55
		3	1	21.06	20.99	20.81
		3	3	20.89	20.89	20.49
		6	0	19.71	19.34	19.27

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	22.32	22.76	22.68
		1	24	21.91	21.91	22.05
		1	49	21.94	22.19	21.93
		25	0	21.25	21.35	21.15
		25	12	21.31	21.18	21.21
		25	25	21.36	21.17	21.26
		50	0	21.28	21.34	21.15
10M	16QAM	1	0	20.95	21.09	21.11
		1	24	20.84	20.89	20.87
		1	49	21.35	21.41	20.95
		25	0	20.18	20.25	20.13
		25	12	20.37	20.10	20.17
		25	25	20.38	20.45	20.05
		50	0	20.32	20.29	20.19
10M	64QAM	1	0	20.06	20.14	20.21
		1	24	19.85	19.95	19.88
		1	49	20.38	20.34	20.04
		25	0	19.17	19.24	19.16
		25	12	19.37	19.01	19.25
		25	25	19.31	19.39	18.98
		50	0	19.40	19.20	19.13

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



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	22.46	22.42	22.25
		1	12	21.77	21.92	21.98
		1	24	22.02	21.70	21.77
		12	0	21.34	21.32	21.24
		12	6	21.40	21.37	21.23
		12	13	21.34	21.19	20.97
		25	0	21.36	21.13	21.17
5M	16QAM	1	0	21.07	21.38	21.33
		1	12	20.99	21.31	21.28
		1	24	21.02	20.42	20.48
		12	0	20.08	20.28	20.22
		12	6	20.21	20.15	20.18
		12	13	20.19	20.17	20.03
		25	0	20.37	20.22	20.18
5M	64QAM	1	0	20.09	20.35	20.31
		1	12	20.11	20.38	20.26
		1	24	19.94	19.43	19.52
		12	0	19.19	19.22	19.15
		12	6	19.31	19.22	19.11
		12	13	19.12	19.15	19.03
		25	0	19.32	19.17	19.27

*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	22.42	22.21	22.41
		1	7	21.88	22.08	22.13
		1	14	22.04	21.94	22.03
		8	0	21.30	21.26	21.25
		8	3	21.31	21.20	21.10
		8	7	21.39	21.24	21.03
		15	0	21.30	21.20	21.06
3M	16QAM	1	0	20.99	20.93	21.22
		1	7	21.37	21.26	21.14
		1	14	20.86	20.52	20.35
		8	0	20.29	20.16	20.11
		8	3	20.37	20.27	19.97
		8	7	20.35	19.87	20.22
		15	0	20.36	20.16	20.00
3M	64QAM	1	0	20.03	19.89	20.19
		1	7	20.49	20.25	20.19
		1	14	19.77	19.43	19.41
		8	0	19.29	19.09	19.08
		8	3	19.34	19.29	18.95
		8	7	19.42	18.83	19.21
		15	0	19.40	19.22	18.96

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

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	22.32	22.47	22.09
		1	2	22.21	22.13	21.99
		1	5	22.19	22.40	22.03
		3	0	22.13	22.38	22.04
		3	1	22.12	22.24	22.24
		3	3	22.12	22.41	22.01
		6	0	21.21	21.43	20.96
1.4M	16QAM	1	0	21.19	21.36	20.77
		1	2	21.32	21.25	20.69
		1	5	21.22	20.71	20.50
		3	0	21.30	21.33	20.80
		3	1	21.40	21.31	21.03
		3	3	21.14	21.22	20.90
		6	0	20.01	19.75	19.55
1.4M	64QAM	1	0	20.23	20.43	19.85
		1	2	20.30	20.35	19.60
		1	5	20.19	19.75	19.52
		3	0	20.33	20.41	19.87
		3	1	20.38	20.31	20.13
		3	3	20.21	20.21	19.81
		6	0	19.03	18.66	18.59

*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	23.36
		1	24	22.88
		1	49	22.38
		25	0	21.88
		25	12	21.9
		25	25	21.85
		50	0	21.88
10M	16QAM	1	0	21.64
		1	24	21.43
		1	49	21.50
		25	0	21.17
		25	12	20.97
		25	25	21.03
		50	0	20.96
10M	64QAM	1	0	20.57
		1	24	20.37
		1	49	20.49
		25	0	20.21
		25	12	20.06
		25	25	20.13
		50	0	19.96



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	23.05	23.07	22.94
		1	12	22.53	22.39	22.44
		1	24	22.54	22.47	22.06
		12	0	22.01	21.96	21.90
		12	6	21.97	21.95	21.88
		12	13	21.84	21.89	21.93
		25	0	21.97	21.87	21.82
5M	16QAM	1	0	21.84	21.38	21.96
		1	12	21.73	22.00	21.68
		1	24	21.26	21.74	21.27
		12	0	21.10	20.89	21.02
		12	6	20.97	21.15	20.91
		12	13	21.02	20.82	20.81
		25	0	20.99	20.93	20.89
5M	64QAM	1	0	20.82	20.48	21.00
		1	12	20.78	21.11	20.65
		1	24	20.18	20.82	20.29
		12	0	20.14	19.81	19.94
		12	6	20.01	20.20	19.97
		12	13	19.97	19.87	19.85
		25	0	20.05	19.92	20.00

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23230
		Frequency (MHz)		782
10M	QPSK	1	0	22.50
		1	24	22.02
		1	49	21.52
		25	0	21.02
		25	12	21.04
		25	25	20.99
		50	0	21.02
10M	16QAM	1	0	20.78
		1	24	20.57
		1	49	20.64
		25	0	20.31
		25	12	20.11
		25	25	20.17
		50	0	20.10
10M	64QAM	1	0	19.71
		1	24	19.51
		1	49	19.63
		25	0	19.35
		25	12	19.20
		25	25	19.27
		50	0	19.10

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



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	22.19	22.21	22.08
		1	12	21.67	21.53	21.58
		1	24	21.68	21.61	21.20
		12	0	21.15	21.10	21.04
		12	6	21.11	21.09	21.02
		12	13	20.98	21.03	21.07
		25	0	21.11	21.01	20.96
5M	16QAM	1	0	20.98	20.52	21.10
		1	12	20.87	21.14	20.82
		1	24	20.40	20.88	20.41
		12	0	20.24	20.03	20.16
		12	6	20.11	20.29	20.05
		12	13	20.16	19.96	19.95
		25	0	20.13	20.07	20.03
5M	64QAM	1	0	19.96	19.62	20.14
		1	12	19.92	20.25	19.79
		1	24	19.32	19.96	19.43
		12	0	19.28	18.95	19.08
		12	6	19.15	19.34	19.11
		12	13	19.11	19.01	18.99
		25	0	19.19	19.06	19.14

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

7.1.7 LTE Band 14

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	23.25
		1	24	23.03
		1	49	22.99
		25	0	22.27
		25	12	22.23
		25	25	22.30
		50	0	22.29
10M	16QAM	1	0	22.35
		1	24	21.89
		1	49	22.29
		25	0	21.52
		25	12	21.33
		25	25	21.13
		50	0	21.35
10M	64QAM	1	0	21.36
		1	24	20.95
		1	49	21.23
		25	0	20.63
		25	12	20.39
		25	25	20.19
		50	0	20.31



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	23.22	23.20	23.19
		1	12	22.96	22.84	22.72
		1	24	23.18	22.89	22.75
		12	0	22.38	22.19	22.29
		12	6	22.36	22.26	22.25
		12	13	22.38	22.13	22.21
		25	0	22.30	22.23	22.20
5M	16QAM	1	0	22.07	22.05	21.86
		1	12	22.11	22.03	22.32
		1	24	21.93	22.05	22.16
		12	0	21.08	21.08	21.14
		12	6	21.34	21.32	21.31
		12	13	21.29	21.15	20.95
		25	0	21.15	21.22	21.06
5M	64QAM	1	0	21.15	21.08	20.90
		1	12	21.08	21.08	21.29
		1	24	20.96	21.13	21.12
		12	0	20.03	20.14	20.07
		12	6	20.41	20.40	20.39
		12	13	20.31	20.23	19.94
		25	0	20.08	20.29	20.03

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	22.57
		1	24	22.35
		1	49	22.31
		25	0	21.59
		25	12	21.55
		25	25	21.62
		50	0	21.61
10M	16QAM	1	0	21.67
		1	24	21.21
		1	49	21.61
		25	0	20.84
		25	12	20.65
		25	25	20.45
		50	0	20.67
10M	64QAM	1	0	20.68
		1	24	20.27
		1	49	20.55
		25	0	19.95
		25	12	19.71
		25	25	19.51
		50	0	19.63

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

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	22.54	22.52	22.51
		1	12	22.28	22.16	22.04
		1	24	22.50	22.21	22.07
		12	0	21.70	21.51	21.61
		12	6	21.68	21.58	21.57
		12	13	21.70	21.45	21.53
		25	0	21.62	21.55	21.52
5M	16QAM	1	0	21.39	21.37	21.18
		1	12	21.43	21.35	21.64
		1	24	21.25	21.37	21.48
		12	0	20.40	20.40	20.46
		12	6	20.66	20.64	20.63
		12	13	20.61	20.47	20.27
		25	0	20.47	20.54	20.38
5M	64QAM	1	0	20.47	20.40	20.22
		1	12	20.40	20.40	20.61
		1	24	20.28	20.45	20.44
		12	0	19.35	19.46	19.39
		12	6	19.73	19.72	19.71
		12	13	19.63	19.55	19.26
		25	0	19.40	19.61	19.35

*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	22.35	22.57	22.41
		1	24	22.07	21.99	22.10
		1	49	22.36	22.08	22.03
		25	0	21.35	21.32	21.32
		25	12	21.29	21.24	21.41
		25	25	21.37	21.33	21.33
		50	0	21.41	21.29	21.33
10M	16QAM	1	0	21.44	21.08	21.15
		1	24	21.08	21.08	21.26
		1	49	21.67	21.09	20.82
		25	0	20.35	20.32	20.38
		25	12	20.27	20.26	20.19
		25	25	20.40	20.60	20.24
		50	0	20.47	20.36	20.32
10M	64QAM	1	0	20.44	19.99	20.17
		1	24	20.17	20.06	20.20
		1	49	20.77	20.11	19.77
		25	0	19.29	19.27	19.43
		25	12	19.26	19.34	19.24
		25	25	19.33	19.71	19.23
		50	0	19.40	19.38	19.29



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	22.38	22.52	22.55
		1	12	21.99	21.98	21.85
		1	24	22.07	22.00	21.97
		12	0	21.35	21.36	21.36
		12	6	21.51	21.53	21.33
		12	13	21.18	21.30	21.28
		25	0	21.31	21.05	21.28
5M	16QAM	1	0	21.12	21.04	21.12
		1	12	20.81	20.82	21.33
		1	24	21.09	21.04	20.98
		12	0	20.19	19.93	20.24
		12	6	20.54	20.56	20.31
		12	13	20.20	20.31	20.24
		25	0	19.99	20.41	20.37
5M	64QAM	1	0	20.06	19.96	20.03
		1	12	19.92	19.92	20.38
		1	24	20.18	20.06	20.03
		12	0	19.26	18.91	19.21
		12	6	19.46	19.57	19.23
		12	13	19.16	19.40	19.35
		25	0	19.03	19.36	19.35



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	21.67	21.89	21.73
		1	24	21.39	21.31	21.42
		1	49	21.68	21.40	21.35
		25	0	20.67	20.64	20.64
		25	12	20.61	20.56	20.73
		25	25	20.69	20.65	20.65
		50	0	20.73	20.61	20.65
10M	16QAM	1	0	20.76	20.40	20.47
		1	24	20.40	20.40	20.58
		1	49	20.99	20.41	20.14
		25	0	19.67	19.64	19.70
		25	12	19.59	19.58	19.51
		25	25	19.72	19.92	19.56
		50	0	19.79	19.68	19.64
10M	64QAM	1	0	19.76	19.31	19.49
		1	24	19.49	19.38	19.52
		1	49	20.09	19.43	19.09
		25	0	18.61	18.59	18.75
		25	12	18.58	18.66	18.56
		25	25	18.65	19.03	18.55
		50	0	18.72	18.70	18.61

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

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	21.70	21.84	21.87
		1	12	21.31	21.30	21.17
		1	24	21.39	21.32	21.29
		12	0	20.67	20.68	20.68
		12	6	20.83	20.85	20.65
		12	13	20.50	20.62	20.60
		25	0	20.63	20.37	20.60
5M	16QAM	1	0	20.44	20.36	20.44
		1	12	20.13	20.14	20.65
		1	24	20.41	20.36	20.30
		12	0	19.51	19.25	19.56
		12	6	19.86	19.88	19.63
		12	13	19.52	19.63	19.56
		25	0	19.31	19.73	19.69
5M	64QAM	1	0	19.38	19.28	19.35
		1	12	19.24	19.24	19.70
		1	24	19.50	19.38	19.35
		12	0	18.58	18.23	18.53
		12	6	18.78	18.89	18.55
		12	13	18.48	18.72	18.67
		25	0	18.35	18.68	18.67

*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	21.86	22.05	21.60
		1	50	21.49	21.35	21.35
		1	99	21.74	21.44	20.80
		50	0	20.91	20.67	20.61
		50	25	20.77	20.63	20.52
		50	50	20.76	20.48	20.70
		100	0	20.67	20.57	20.54
20M	16QAM	1	0	20.43	20.33	20.23
		1	50	20.68	20.50	20.05
		1	99	20.09	20.49	20.02
		50	0	19.81	19.73	19.66
		50	25	19.85	19.73	19.72
		50	50	19.78	19.53	19.62
		100	0	19.80	19.57	19.48
20M	64QAM	1	0	19.50	19.39	19.25
		1	50	19.64	19.45	19.06
		1	99	19.10	19.44	19.11
		50	0	18.93	18.84	18.76
		50	25	18.90	18.81	18.84
		50	50	18.88	18.51	18.71
		100	0	18.91	18.62	18.57

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	21.81	21.61	21.70
		1	37	21.79	21.24	21.50
		1	74	21.59	21.38	20.57
		36	0	20.65	20.58	20.36
		36	19	20.61	20.50	20.57
		36	39	20.57	20.36	20.51
		75	0	20.70	20.39	20.46
15M	16QAM	1	0	20.88	20.20	20.54
		1	37	20.42	20.19	20.65
		1	74	20.49	19.61	20.40
		36	0	19.66	19.48	19.28
		36	19	19.68	19.48	19.53
		36	39	19.60	19.33	19.51
		75	0	19.70	19.51	19.43
15M	64QAM	1	0	19.85	19.11	19.62
		1	37	19.34	19.13	19.58
		1	74	19.54	18.73	19.35
		36	0	18.64	18.57	18.22
		36	19	18.74	18.39	18.49
		36	39	18.67	18.40	18.51
		75	0	18.76	18.58	18.45

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	21.87	21.49	21.69
		1	24	21.52	21.30	21.32
		1	49	21.70	21.36	21.00
		25	0	20.69	20.51	20.64
		25	12	20.59	20.50	20.61
		25	25	20.58	20.43	20.66
		50	0	20.79	20.54	20.67
10M	16QAM	1	0	20.82	20.62	20.67
		1	24	20.18	20.53	20.53
		1	49	20.32	19.92	20.13
		25	0	19.75	19.46	19.73
		25	12	19.70	19.50	19.65
		25	25	19.65	19.51	19.70
		50	0	19.78	19.49	19.54
10M	64QAM	1	0	19.93	19.56	19.69
		1	24	19.24	19.62	19.63
		1	49	19.35	19.00	19.09
		25	0	18.82	18.39	18.65
		25	12	18.74	18.52	18.76
		25	25	18.75	18.44	18.62
		50	0	18.74	18.47	18.63

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	21.85	21.55	21.35
		1	12	21.47	20.97	21.51
		1	24	21.75	20.98	21.04
		12	0	20.62	20.48	20.54
		12	6	20.66	20.52	20.43
		12	13	20.67	20.42	20.44
		25	0	20.66	20.44	20.48
5M	16QAM	1	0	20.62	20.13	20.43
		1	12	20.49	20.48	20.11
		1	24	20.38	19.86	19.73
		12	0	19.56	19.61	19.41
		12	6	19.70	19.58	19.37
		12	13	19.69	19.44	19.34
		25	0	19.59	19.54	19.55
5M	64QAM	1	0	19.70	19.14	19.43
		1	12	19.59	19.41	19.23
		1	24	19.32	18.92	18.85
		12	0	18.51	18.56	18.32
		12	6	18.62	18.52	18.28
		12	13	18.67	18.49	18.34
		25	0	18.59	18.55	18.55



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	21.94	21.77	21.24
		1	7	21.46	21.27	21.42
		1	14	21.67	21.32	21.03
		8	0	20.65	20.55	20.45
		8	3	20.66	20.51	20.46
		8	7	20.66	20.49	20.51
		15	0	20.72	20.41	20.55
3M	16QAM	1	0	20.61	20.04	20.11
		1	7	20.21	20.22	20.16
		1	14	20.35	20.17	20.06
		8	0	19.60	19.26	19.63
		8	3	20.01	19.39	19.42
		8	7	19.93	19.54	19.75
		15	0	19.74	19.39	19.10
3M	64QAM	1	0	19.56	18.99	19.23
		1	7	19.29	19.23	19.09
		1	14	19.33	19.20	18.97
		8	0	18.71	18.17	18.56
		8	3	18.99	18.44	18.48
		8	7	18.87	18.56	18.70
		15	0	18.85	18.51	18.02

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	21.81	21.48	21.50
		1	2	21.65	21.18	21.29
		1	5	21.65	21.45	21.05
		3	0	21.60	21.29	21.48
		3	1	21.58	21.43	21.47
		3	3	21.56	21.33	21.41
		6	0	20.74	20.48	20.40
1.4M	16QAM	1	0	20.75	20.30	20.36
		1	2	20.37	19.93	20.01
		1	5	21.02	19.89	20.01
		3	0	20.52	20.47	20.34
		3	1	20.57	20.48	20.47
		3	3	20.72	20.29	20.23
		6	0	19.47	19.31	19.35
1.4M	64QAM	1	0	19.77	19.37	19.36
		1	2	19.41	19.04	19.00
		1	5	20.03	18.85	19.09
		3	0	19.64	19.43	19.25
		3	1	19.69	19.60	19.47
		3	3	19.78	19.24	19.30
		6	0	18.53	18.40	18.37

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	24.02	24.21	23.76
		1	50	23.65	23.51	23.51
		1	99	23.90	23.60	22.96
		50	0	23.07	22.83	22.77
		50	25	22.93	22.79	22.68
		50	50	22.92	22.64	22.86
		100	0	22.83	22.73	22.70
20M	16QAM	1	0	22.59	22.49	22.39
		1	50	22.84	22.66	22.21
		1	99	22.25	22.65	22.18
		50	0	21.97	21.89	21.82
		50	25	22.01	21.89	21.88
		50	50	21.94	21.69	21.78
		100	0	21.96	21.73	21.64
20M	64QAM	1	0	21.66	21.55	21.41
		1	50	21.80	21.61	21.22
		1	99	21.26	21.60	21.27
		50	0	21.09	21.00	20.92
		50	25	21.06	20.97	21.00
		50	50	21.04	20.67	20.87
		100	0	21.07	20.78	20.73

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

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	23.97	23.77	23.86
		1	37	23.95	23.40	23.66
		1	74	23.75	23.54	22.73
		36	0	22.81	22.74	22.52
		36	19	22.77	22.66	22.73
		36	39	22.73	22.52	22.67
		75	0	22.86	22.55	22.62
15M	16QAM	1	0	23.04	22.36	22.70
		1	37	22.58	22.35	22.81
		1	74	22.65	21.77	22.56
		36	0	21.82	21.64	21.44
		36	19	21.84	21.64	21.69
		36	39	21.76	21.49	21.67
		75	0	21.86	21.67	21.59
15M	64QAM	1	0	22.01	21.27	21.78
		1	37	21.50	21.29	21.74
		1	74	21.70	20.89	21.51
		36	0	20.80	20.73	20.38
		36	19	20.90	20.55	20.65
		36	39	20.83	20.56	20.67
		75	0	20.92	20.74	20.61

*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	24.03	23.65	23.85
		1	24	23.68	23.46	23.48
		1	49	23.86	23.52	23.16
		25	0	22.85	22.67	22.80
		25	12	22.75	22.66	22.77
		25	25	22.74	22.59	22.82
		50	0	22.95	22.70	22.83
10M	16QAM	1	0	22.98	22.78	22.83
		1	24	22.34	22.69	22.69
		1	49	22.48	22.08	22.29
		25	0	21.91	21.62	21.89
		25	12	21.86	21.66	21.81
		25	25	21.81	21.67	21.86
		50	0	21.94	21.65	21.70
10M	64QAM	1	0	22.09	21.72	21.85
		1	24	21.40	21.78	21.79
		1	49	21.51	21.16	21.25
		25	0	20.98	20.55	20.81
		25	12	20.90	20.68	20.92
		25	25	20.91	20.60	20.78
		50	0	20.90	20.63	20.79

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

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	24.01	23.71	23.51
		1	12	23.63	23.13	23.67
		1	24	23.91	23.14	23.20
		12	0	22.78	22.64	22.70
		12	6	22.82	22.68	22.59
		12	13	22.83	22.58	22.60
		25	0	22.82	22.60	22.64
5M	16QAM	1	0	22.78	22.29	22.59
		1	12	22.65	22.64	22.27
		1	24	22.54	22.02	21.89
		12	0	21.72	21.77	21.57
		12	6	21.86	21.74	21.53
		12	13	21.85	21.60	21.50
		25	0	21.75	21.70	21.71
5M	64QAM	1	0	21.86	21.30	21.59
		1	12	21.75	21.57	21.39
		1	24	21.48	21.08	21.01
		12	0	20.67	20.72	20.48
		12	6	20.78	20.68	20.44
		12	13	20.83	20.65	20.50
		25	0	20.75	20.71	20.71

*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	24.10	23.93	23.40
		1	7	23.62	23.43	23.58
		1	14	23.83	23.48	23.19
		8	0	22.81	22.71	22.61
		8	3	22.82	22.67	22.62
		8	7	22.82	22.65	22.67
		15	0	22.88	22.57	22.71
3M	16QAM	1	0	22.77	22.20	22.27
		1	7	22.37	22.38	22.32
		1	14	22.51	22.33	22.22
		8	0	21.76	21.42	21.79
		8	3	22.17	21.55	21.58
		8	7	22.09	21.70	21.91
		15	0	21.90	21.55	21.26
3M	64QAM	1	0	21.72	21.15	21.39
		1	7	21.45	21.39	21.25
		1	14	21.49	21.36	21.13
		8	0	20.87	20.33	20.72
		8	3	21.15	20.60	20.64
		8	7	21.03	20.72	20.86
		15	0	21.01	20.67	20.18

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

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	23.97	23.64	23.66
		1	2	23.81	23.34	23.45
		1	5	23.81	23.61	23.21
		3	0	23.76	23.45	23.64
		3	1	23.74	23.59	23.63
		3	3	23.72	23.49	23.57
		6	0	22.90	22.64	22.56
1.4M	16QAM	1	0	22.91	22.46	22.52
		1	2	22.53	22.09	22.17
		1	5	23.18	22.05	22.17
		3	0	22.68	22.63	22.50
		3	1	22.73	22.64	22.63
		3	3	22.88	22.45	22.39
		6	0	21.63	21.47	21.51
1.4M	64QAM	1	0	21.93	21.53	21.52
		1	2	21.57	21.20	21.16
		1	5	22.19	21.01	21.25
		3	0	21.80	21.59	21.41
		3	1	21.85	21.76	21.63
		3	3	21.94	21.40	21.46
		6	0	20.69	20.56	20.53

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

7.1.10LTE Band 26 (814 MHz ~ 824 MHz)

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	23.16
		1	24	23.03
		1	49	22.78
		25	0	22.03
		25	12	22.03
		25	25	21.88
		50	0	21.94
10M	16QAM	1	0	21.74
		1	24	22.20
		1	49	22.03
		25	0	20.94
		25	12	21.15
		25	25	20.74
		50	0	20.94
10M	64QAM	1	0	20.71
		1	24	21.24
		1	49	21.01
		25	0	19.97
		25	12	20.12
		25	25	19.74
		50	0	20.05

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	22.43	22.73	22.48
		1	12	23.05	23.11	23.08
		1	24	22.74	22.39	22.64
		12	0	21.92	22.01	21.84
		12	6	21.97	22.15	21.69
		12	13	22.18	21.91	21.66
		25	0	22.03	21.97	21.79
5M	16QAM	1	0	21.86	21.72	21.67
		1	12	22.00	22.12	22.03
		1	24	22.14	21.60	21.27
		12	0	20.96	21.07	20.85
		12	6	21.04	21.16	20.66
		12	13	20.95	20.97	20.74
		25	0	20.93	21.01	20.85
5M	64QAM	1	0	20.82	20.76	20.66
		1	12	21.05	21.18	21.00
		1	24	21.11	20.72	20.39
		12	0	19.99	20.19	19.78
		12	6	20.00	20.18	19.67
		12	13	20.00	19.90	19.72
		25	0	19.98	20.03	19.91

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	22.62	22.57	22.31
		1	7	22.96	22.91	22.59
		1	14	22.71	22.69	22.40
		8	0	21.77	22.02	21.45
		8	3	21.75	21.94	21.48
		8	7	21.89	21.94	21.66
		15	0	22.00	21.86	21.50
3M	16QAM	1	0	21.86	21.93	21.32
		1	7	21.28	21.59	21.09
		1	14	21.59	21.83	21.77
		8	0	20.85	20.55	20.38
		8	3	20.94	20.75	20.55
		8	7	20.97	20.91	20.71
		15	0	20.59	20.73	20.52
3M	64QAM	1	0	20.92	20.86	20.35
		1	7	20.27	20.56	20.13
		1	14	20.50	20.82	20.85
		8	0	19.82	19.48	19.46
		8	3	19.88	19.70	19.57
		8	7	19.88	19.95	19.65
		15	0	19.64	19.77	19.46

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	23.02	23.08	22.82
		1	7	23.08	23.16	22.93
		1	14	23.00	23.08	22.82
		8	0	23.08	23.11	22.91
		8	3	23.14	23.08	23.11
		8	7	22.84	22.96	22.79
		15	0	22.06	22.14	21.86
1.4M	16QAM	1	0	21.92	21.76	21.81
		1	7	22.03	22.14	21.89
		1	14	21.59	21.81	21.40
		8	0	21.86	22.26	21.63
		8	3	21.97	22.39	21.82
		8	7	22.23	22.17	21.69
		15	0	20.98	20.86	20.39
1.4M	64QAM	1	0	20.95	20.75	20.79
		1	7	21.04	21.23	20.97
		1	14	20.51	20.86	20.52
		8	0	20.86	21.34	20.60
		8	3	20.93	21.43	20.82
		8	7	21.21	21.08	20.76
		15	0	20.04	19.96	19.31

ERP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	23.32
		1	24	23.19
		1	49	22.94
		25	0	22.19
		25	12	22.19
		25	25	22.04
		50	0	22.10
10M	16QAM	1	0	21.90
		1	24	22.36
		1	49	22.19
		25	0	21.10
		25	12	21.31
		25	25	20.90
		50	0	21.10
10M	64QAM	1	0	20.87
		1	24	21.40
		1	49	21.17
		25	0	20.13
		25	12	20.28
		25	25	19.90
		50	0	20.21

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

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	22.59	22.89	22.64
		1	12	23.21	23.27	23.24
		1	24	22.90	22.55	22.80
		12	0	22.08	22.17	22.00
		12	6	22.13	22.31	21.85
		12	13	22.34	22.07	21.82
		25	0	22.19	22.13	21.95
5M	16QAM	1	0	22.02	21.88	21.83
		1	12	22.16	22.28	22.19
		1	24	22.30	21.76	21.43
		12	0	21.12	21.23	21.01
		12	6	21.20	21.32	20.82
		12	13	21.11	21.13	20.90
		25	0	21.09	21.17	21.01
5M	64QAM	1	0	20.98	20.92	20.82
		1	12	21.21	21.34	21.16
		1	24	21.27	20.88	20.55
		12	0	20.15	20.35	19.94
		12	6	20.16	20.34	19.83
		12	13	20.16	20.06	19.88
		25	0	20.14	20.19	20.07

*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	22.78	22.73	22.47
		1	7	23.12	23.07	22.75
		1	14	22.87	22.85	22.56
		8	0	21.93	22.18	21.61
		8	3	21.91	22.10	21.64
		8	7	22.05	22.10	21.82
		15	0	22.16	22.02	21.66
3M	16QAM	1	0	22.02	22.09	21.48
		1	7	21.44	21.75	21.25
		1	14	21.75	21.99	21.93
		8	0	21.01	20.71	20.54
		8	3	21.10	20.91	20.71
		8	7	21.13	21.07	20.87
		15	0	20.75	20.89	20.68
3M	64QAM	1	0	21.08	21.02	20.51
		1	7	20.43	20.72	20.29
		1	14	20.66	20.98	21.01
		8	0	19.98	19.64	19.62
		8	3	20.04	19.86	19.73
		8	7	20.04	20.11	19.81
		15	0	19.80	19.93	19.62

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

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	23.18	23.24	22.98
		1	7	23.24	23.32	23.09
		1	14	23.16	23.24	22.98
		8	0	23.24	23.27	23.07
		8	3	23.30	23.24	23.27
		8	7	23.00	23.12	22.95
		15	0	22.22	22.30	22.02
1.4M	16QAM	1	0	22.08	21.92	21.97
		1	7	22.19	22.30	22.05
		1	14	21.75	21.97	21.56
		8	0	22.02	22.42	21.79
		8	3	22.13	22.55	21.98
		8	7	22.39	22.33	21.85
		15	0	21.14	21.02	20.55
1.4M	64QAM	1	0	21.11	20.91	20.95
		1	7	21.20	21.39	21.13
		1	14	20.67	21.02	20.68
		8	0	21.02	21.50	20.76
		8	3	21.09	21.59	20.98
		8	7	21.37	21.24	20.92
		15	0	20.20	20.12	19.47

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

7.1.11 LTE Band 26 (824 MHz ~ 849 MHz)
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	22.87	23.19	22.74
		1	37	22.69	22.69	22.47
		1	74	22.47	22.41	22.24
		36	0	21.36	21.57	21.48
		36	19	21.61	21.46	21.58
		36	39	21.52	21.58	21.32
		75	0	21.48	21.56	21.40
15M	16QAM	1	0	21.20	21.20	21.17
		1	37	21.34	21.52	21.78
		1	74	21.08	21.26	20.79
		36	0	20.54	20.56	20.36
		36	19	20.58	20.45	20.71
		36	39	20.54	20.50	20.35
		75	0	20.56	20.56	20.51
15M	64QAM	1	0	20.14	20.12	20.25
		1	37	20.26	20.56	20.84
		1	74	20.17	20.38	19.76
		36	0	19.54	19.47	19.41
		36	19	19.59	19.56	19.66
		36	39	19.48	19.45	19.31
		75	0	19.66	19.47	19.50

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.26	22.47	22.36
		1	37	22.40	22.45	22.32
		1	74	22.26	22.25	21.51
		36	0	21.56	21.58	21.52
		36	19	21.54	21.42	21.44
		36	39	21.56	21.50	21.19
		75	0	21.54	21.56	21.38
10M	16QAM	1	0	21.59	21.81	21.44
		1	37	21.29	21.46	21.54
		1	74	21.65	21.43	21.28
		36	0	20.50	20.49	20.66
		36	19	20.40	20.53	20.57
		36	39	20.40	20.55	20.20
		75	0	20.44	20.55	20.48
10M	64QAM	1	0	20.55	20.87	20.45
		1	37	20.27	20.38	20.56
		1	74	20.76	20.55	20.31
		36	0	19.61	19.61	19.68
		36	19	19.39	19.59	19.67
		36	39	19.49	19.67	19.18
		75	0	19.41	19.48	19.39



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	22.04	22.13	21.90
		1	12	22.63	22.71	22.39
		1	24	22.05	22.48	22.17
		12	0	21.53	21.41	21.10
		12	6	21.57	21.38	21.11
		12	13	21.47	21.54	21.12
		25	0	21.49	21.37	21.06
5M	16QAM	1	0	21.18	20.88	21.07
		1	12	22.24	21.49	20.87
		1	24	21.21	21.09	21.06
		12	0	20.74	20.59	20.11
		12	6	20.62	20.39	20.37
		12	13	20.57	20.28	20.08
		25	0	20.55	20.25	20.17
5M	64QAM	1	0	20.16	19.84	20.02
		1	12	21.26	20.51	19.80
		1	24	20.12	20.19	19.97
		12	0	19.67	19.58	19.14
		12	6	19.60	19.33	19.39
		12	13	19.64	19.37	19.05
		25	0	19.49	19.17	19.15

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	22.27	22.24	22.13
		1	7	22.37	22.41	22.28
		1	14	22.25	22.29	21.86
		8	0	21.58	21.55	21.20
		8	3	21.64	21.46	21.12
		8	7	21.64	21.47	21.22
		15	0	21.58	21.47	21.16
3M	16QAM	1	0	21.53	21.46	21.63
		1	7	21.41	21.52	21.56
		1	14	21.47	21.21	20.59
		8	0	20.59	20.22	20.29
		8	3	20.75	20.25	20.12
		8	7	20.61	20.16	20.04
		15	0	20.35	20.53	19.89
3M	64QAM	1	0	20.53	20.58	20.62
		1	7	20.43	20.51	20.63
		1	14	20.39	20.22	19.52
		8	0	19.68	19.29	19.28
		8	3	19.79	19.35	19.03
		8	7	19.66	19.12	19.03
		15	0	19.44	19.47	18.90

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	22.50	22.26	22.19
		1	2	22.74	22.30	22.28
		1	5	22.31	22.34	22.27
		3	0	22.46	22.37	22.26
		3	1	22.49	22.41	22.28
		3	3	22.54	22.41	22.28
		6	0	21.58	21.39	21.08
1.4M	16QAM	1	0	21.65	21.00	21.53
		1	2	21.23	21.27	21.64
		1	5	20.99	21.23	21.44
		3	0	21.57	21.47	21.29
		3	1	21.67	21.51	21.28
		3	3	21.68	21.43	21.33
		6	0	20.38	20.40	20.24
1.4M	64QAM	1	0	20.57	20.00	20.55
		1	2	20.26	20.30	20.60
		1	5	20.03	20.21	20.48
		3	0	20.55	20.52	20.26
		3	1	20.71	20.48	20.40
		3	3	20.77	20.49	20.29
		6	0	19.48	19.47	19.20

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	23.03	23.35	22.90
		1	37	22.85	22.85	22.63
		1	74	22.63	22.57	22.40
		36	0	21.52	21.73	21.64
		36	19	21.77	21.62	21.74
		36	39	21.68	21.74	21.48
		75	0	21.64	21.72	21.56
15M	16QAM	1	0	21.36	21.36	21.33
		1	37	21.50	21.68	21.94
		1	74	21.24	21.42	20.95
		36	0	20.70	20.72	20.52
		36	19	20.74	20.61	20.87
		36	39	20.70	20.66	20.51
		75	0	20.72	20.72	20.67
15M	64QAM	1	0	20.30	20.28	20.41
		1	37	20.42	20.72	21.00
		1	74	20.33	20.54	19.92
		36	0	19.70	19.63	19.57
		36	19	19.75	19.72	19.82
		36	39	19.64	19.61	19.47
		75	0	19.82	19.63	19.66

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

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	22.42	22.63	22.52
		1	37	22.56	22.61	22.48
		1	74	22.42	22.41	21.67
		36	0	21.72	21.74	21.68
		36	19	21.70	21.58	21.60
		36	39	21.72	21.66	21.35
		75	0	21.70	21.72	21.54
10M	16QAM	1	0	21.75	21.97	21.60
		1	37	21.45	21.62	21.70
		1	74	21.81	21.59	21.44
		36	0	20.66	20.65	20.82
		36	19	20.56	20.69	20.73
		36	39	20.56	20.71	20.36
		75	0	20.60	20.71	20.64
10M	64QAM	1	0	20.71	21.03	20.61
		1	37	20.43	20.54	20.72
		1	74	20.92	20.71	20.47
		36	0	19.77	19.77	19.84
		36	19	19.55	19.75	19.83
		36	39	19.65	19.83	19.34
		75	0	19.57	19.64	19.55

*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	22.20	22.29	22.06
		1	12	22.79	22.87	22.55
		1	24	22.21	22.64	22.33
		12	0	21.69	21.57	21.26
		12	6	21.73	21.54	21.27
		12	13	21.63	21.70	21.28
		25	0	21.65	21.53	21.22
5M	16QAM	1	0	21.34	21.04	21.23
		1	12	22.40	21.65	21.03
		1	24	21.37	21.25	21.22
		12	0	20.90	20.75	20.27
		12	6	20.78	20.55	20.53
		12	13	20.73	20.44	20.24
		25	0	20.71	20.41	20.33
5M	64QAM	1	0	20.32	20.00	20.18
		1	12	21.42	20.67	19.96
		1	24	20.28	20.35	20.13
		12	0	19.83	19.74	19.30
		12	6	19.76	19.49	19.55
		12	13	19.80	19.53	19.21
		25	0	19.65	19.33	19.31

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

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	22.43	22.40	22.29
		1	7	22.53	22.57	22.44
		1	14	22.41	22.45	22.02
		8	0	21.74	21.71	21.36
		8	3	21.80	21.62	21.28
		8	7	21.80	21.63	21.38
		15	0	21.74	21.63	21.32
3M	16QAM	1	0	21.69	21.62	21.79
		1	7	21.57	21.68	21.72
		1	14	21.63	21.37	20.75
		8	0	20.75	20.38	20.45
		8	3	20.91	20.41	20.28
		8	7	20.77	20.32	20.20
		15	0	20.51	20.69	20.05
3M	64QAM	1	0	20.69	20.74	20.78
		1	7	20.59	20.67	20.79
		1	14	20.55	20.38	19.68
		8	0	19.84	19.45	19.44
		8	3	19.95	19.51	19.19
		8	7	19.82	19.28	19.19
		15	0	19.60	19.63	19.06

*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	22.66	22.42	22.35
		1	2	22.90	22.46	22.44
		1	5	22.47	22.50	22.43
		3	0	22.62	22.53	22.42
		3	1	22.65	22.57	22.44
		3	3	22.70	22.57	22.44
		6	0	21.74	21.55	21.24
1.4M	16QAM	1	0	21.81	21.16	21.69
		1	2	21.39	21.43	21.80
		1	5	21.15	21.39	21.60
		3	0	21.73	21.63	21.45
		3	1	21.83	21.67	21.44
		3	3	21.84	21.59	21.49
		6	0	20.54	20.56	20.40
1.4M	64QAM	1	0	20.73	20.16	20.71
		1	2	20.42	20.46	20.76
		1	5	20.19	20.37	20.64
		3	0	20.71	20.68	20.42
		3	1	20.87	20.64	20.56
		3	3	20.93	20.65	20.45
		6	0	19.64	19.63	19.36

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

7.1.12LTE Band 41

Conducted Output Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40140	40640	41140
		Frequency (MHz)		2545	2595	2645
20M	QPSK	1	0	21.65	23.13	21.71
		1	50	20.77	22.14	21.15
		1	99	21.16	21.52	21.36
		50	0	20.21	21.55	20.41
		50	25	20.13	21.71	20.39
		50	50	19.90	20.91	20.22
		100	0	20.19	21.44	20.16
20M	16QAM	1	0	20.31	21.35	20.47
		1	50	21.13	22.36	21.08
		1	99	20.63	20.97	20.72
		50	0	19.25	20.67	19.53
		50	25	19.22	20.83	19.51
		50	50	19.19	20.12	19.35
		100	0	19.25	20.56	19.27
20M	64QAM	1	0	19.22	20.32	19.45
		1	50	20.15	21.36	20.05
		1	99	19.74	19.93	19.84
		50	0	18.37	19.74	18.47
		50	25	18.29	19.82	18.58
		50	50	18.16	19.19	18.38
		100	0	18.18	19.66	18.32

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40115	40640	41165
		Frequency (MHz)		2542.5	2595	2647.5
15M	QPSK	1	0	20.99	22.60	21.33
		1	37	20.77	22.17	21.14
		1	74	20.50	21.06	21.01
		36	0	20.14	21.62	20.27
		36	19	20.12	21.74	20.30
		36	39	19.88	20.94	20.32
		75	0	19.96	21.47	20.05
15M	16QAM	1	0	20.30	21.52	20.33
		1	37	20.35	21.95	20.52
		1	74	19.87	20.33	20.19
		36	0	19.31	20.68	19.17
		36	19	19.33	20.81	19.19
		36	39	19.12	19.91	19.21
		75	0	19.20	20.58	19.16
15M	64QAM	1	0	19.39	20.54	19.45
		1	37	19.38	20.96	19.44
		1	74	18.84	19.27	19.19
		36	0	18.38	19.73	18.26
		36	19	18.27	19.90	18.20
		36	39	18.05	18.87	18.16
		75	0	18.27	19.54	18.10

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40090	40640	41190
		Frequency (MHz)		2540	2595	2650
10M	QPSK	1	0	21.05	22.53	21.35
		1	24	20.88	22.20	21.13
		1	49	20.75	21.47	21.05
		25	0	20.06	21.63	20.31
		25	12	20.22	21.71	20.41
		25	25	20.03	21.12	20.42
		50	0	20.02	21.58	20.19
10M	16QAM	1	0	20.41	21.64	20.39
		1	24	20.48	21.98	20.63
		1	49	20.29	20.82	20.31
		25	0	19.31	20.76	19.25
		25	12	19.51	20.84	19.34
		25	25	19.27	20.24	19.36
		50	0	19.24	20.71	19.32
10M	64QAM	1	0	19.48	20.76	19.44
		1	24	19.58	21.09	19.62
		1	49	19.36	19.86	19.23
		25	0	18.33	19.86	18.29
		25	12	18.47	19.82	18.40
		25	25	18.20	19.19	18.34
		50	0	18.29	19.78	18.43



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40065	40640	41215
		Frequency (MHz)		2537.5	2595	2652.5
5M	QPSK	1	0	21.16	22.45	21.28
		1	12	21.45	22.01	21.88
		1	24	20.66	21.66	20.89
		12	0	20.09	21.56	20.16
		12	6	20.12	21.49	20.20
		12	13	20.03	21.30	20.17
		25	0	19.84	21.55	20.10
5M	16QAM	1	0	20.03	21.41	20.10
		1	12	20.58	21.87	20.64
		1	24	20.07	20.92	20.25
		12	0	19.24	20.69	19.29
		12	6	19.37	20.62	19.33
		12	13	19.25	20.42	19.21
		25	0	19.09	20.69	19.23
5M	64QAM	1	0	19.15	20.39	19.10
		1	12	19.68	20.87	19.64
		1	24	19.08	20.00	19.17
		12	0	18.29	19.70	18.34
		12	6	18.42	19.70	18.24
		12	13	18.18	19.40	18.17
		25	0	18.16	19.78	18.21

EIRP Power (dBm)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40140	40640	41140
		Frequency (MHz)		2545	2595	2645
20M	QPSK	1	0	24.48	25.96	24.54
		1	50	23.60	24.97	23.98
		1	99	23.99	24.35	24.19
		50	0	23.04	24.38	23.24
		50	25	22.96	24.54	23.22
		50	50	22.73	23.74	23.05
		100	0	23.02	24.27	22.99
20M	16QAM	1	0	23.14	24.18	23.30
		1	50	23.96	25.19	23.91
		1	99	23.46	23.80	23.55
		50	0	22.08	23.50	22.36
		50	25	22.05	23.66	22.34
		50	50	22.02	22.95	22.18
		100	0	22.08	23.39	22.10
20M	64QAM	1	0	22.05	23.15	22.28
		1	50	22.98	24.19	22.88
		1	99	22.57	22.76	22.67
		50	0	21.20	22.57	21.30
		50	25	21.12	22.65	21.41
		50	50	20.99	22.02	21.21
		100	0	21.01	22.49	21.15

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

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40115	40640	41165
		Frequency (MHz)		2542.5	2595	2647.5
15M	QPSK	1	0	23.82	25.43	24.16
		1	37	23.60	25.00	23.97
		1	74	23.33	23.89	23.84
		36	0	22.97	24.45	23.10
		36	19	22.95	24.57	23.13
		36	39	22.71	23.77	23.15
		75	0	22.79	24.30	22.88
15M	16QAM	1	0	23.13	24.35	23.16
		1	37	23.18	24.78	23.35
		1	74	22.70	23.16	23.02
		36	0	22.14	23.51	22.00
		36	19	22.16	23.64	22.02
		36	39	21.95	22.74	22.04
		75	0	22.03	23.41	21.99
15M	64QAM	1	0	22.22	23.37	22.28
		1	37	22.21	23.79	22.27
		1	74	21.67	22.10	22.02
		36	0	21.21	22.56	21.09
		36	19	21.10	22.73	21.03
		36	39	20.88	21.70	20.99
		75	0	21.10	22.37	20.93

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

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40090	40640	41190
		Frequency (MHz)		2540	2595	2650
10M	QPSK	1	0	23.88	25.36	24.18
		1	24	23.71	25.03	23.96
		1	49	23.58	24.30	23.88
		25	0	22.89	24.46	23.14
		25	12	23.05	24.54	23.24
		25	25	22.86	23.95	23.25
		50	0	22.85	24.41	23.02
10M	16QAM	1	0	23.24	24.47	23.22
		1	24	23.31	24.81	23.46
		1	49	23.12	23.65	23.14
		25	0	22.14	23.59	22.08
		25	12	22.34	23.67	22.17
		25	25	22.10	23.07	22.19
		50	0	22.07	23.54	22.15
10M	64QAM	1	0	22.31	23.59	22.27
		1	24	22.41	23.92	22.45
		1	49	22.19	22.69	22.06
		25	0	21.16	22.69	21.12
		25	12	21.30	22.65	21.23
		25	25	21.03	22.02	21.17
		50	0	21.12	22.61	21.26

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

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		40065	40640	41215
		Frequency (MHz)		2537.5	2595	2652.5
5M	QPSK	1	0	23.99	25.28	24.11
		1	12	24.28	24.84	24.71
		1	24	23.49	24.49	23.72
		12	0	22.92	24.39	22.99
		12	6	22.95	24.32	23.03
		12	13	22.86	24.13	23.00
		25	0	22.67	24.38	22.93
5M	16QAM	1	0	22.86	24.24	22.93
		1	12	23.41	24.70	23.47
		1	24	22.90	23.75	23.08
		12	0	22.07	23.52	22.12
		12	6	22.20	23.45	22.16
		12	13	22.08	23.25	22.04
		25	0	21.92	23.52	22.06
5M	64QAM	1	0	21.98	23.22	21.93
		1	12	22.51	23.70	22.47
		1	24	21.91	22.83	22.00
		12	0	21.12	22.53	21.17
		12	6	21.25	22.53	21.07
		12	13	21.01	22.23	21.00
		25	0	20.99	22.61	21.04

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

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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	22.35	22.41	22.31
		1	50	22.02	21.76	21.81
		1	99	22.31	21.95	21.71
		50	0	21.29	21.25	21.21
		50	25	21.24	21.13	21.03
		50	50	21.13	21.19	20.96
		100	0	21.11	21.15	21.12
20M	16QAM	1	0	21.46	20.79	20.57
		1	50	21.30	21.20	20.71
		1	99	20.54	20.95	20.84
		50	0	20.24	20.18	20.11
		50	25	20.13	20.03	20.03
		50	50	20.35	20.14	19.70
		100	0	20.17	20.06	19.79
20M	64QAM	1	0	20.53	19.69	19.45
		1	50	20.17	20.14	19.82
		1	99	19.59	20.01	20.02
		50	0	19.41	19.09	19.10
		50	25	19.24	19.04	18.97
		50	50	19.35	19.17	18.80
		100	0	19.07	19.24	18.78



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	22.22	22.17	22.12
		1	37	22.07	22.12	21.97
		1	74	22.09	22.04	21.63
		36	0	21.19	21.02	20.98
		36	19	21.17	21.06	20.81
		36	39	21.17	21.02	20.85
		75	0	21.17	21.00	20.81
15M	16QAM	1	0	20.75	21.08	20.84
		1	37	21.31	20.44	20.88
		1	74	20.64	20.75	20.08
		36	0	20.22	20.03	19.85
		36	19	20.12	20.06	19.90
		36	39	20.02	20.13	19.67
		75	0	20.07	20.08	19.98
15M	64QAM	1	0	19.59	19.94	19.91
		1	37	20.35	19.39	19.95
		1	74	19.71	19.79	18.97
		36	0	19.17	19.17	18.91
		36	19	19.02	18.95	18.89
		36	39	19.18	18.93	18.64
		75	0	19.14	18.89	19.12



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.25	22.17	21.95
		1	24	21.84	21.87	21.71
		1	49	22.14	22.00	21.49
		25	0	21.16	21.02	20.85
		25	12	21.10	21.05	20.88
		25	25	21.13	20.99	20.65
		50	0	21.24	21.06	20.78
10M	16QAM	1	0	20.91	20.35	21.03
		1	24	21.21	20.72	20.35
		1	49	21.26	20.44	20.51
		25	0	20.10	19.99	19.84
		25	12	20.01	20.00	19.92
		25	25	20.09	20.00	19.51
		50	0	20.08	19.87	19.73
10M	64QAM	1	0	19.82	19.19	20.06
		1	24	20.32	19.81	19.36
		1	49	20.18	19.48	19.45
		25	0	19.14	19.07	18.90
		25	12	19.10	19.11	18.94
		25	25	19.16	18.94	18.47
		50	0	19.13	18.93	18.84



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	22.09	22.16	21.73
		1	12	21.35	21.56	21.30
		1	24	21.79	21.87	21.07
		12	0	20.78	21.01	20.45
		12	6	20.81	21.04	20.48
		12	13	20.81	20.92	20.40
		25	0	20.79	20.93	20.42
5M	16QAM	1	0	20.98	20.86	20.17
		1	12	20.80	20.50	20.48
		1	24	20.36	20.10	20.24
		12	0	19.71	19.93	19.60
		12	6	19.70	19.95	19.50
		12	13	19.92	19.65	19.43
		25	0	19.76	20.10	19.19
5M	64QAM	1	0	20.09	19.73	19.13
		1	12	19.83	19.54	19.55
		1	24	19.21	19.31	19.23
		12	0	18.77	18.90	18.71
		12	6	18.80	18.90	18.40
		12	13	19.04	18.71	18.39
		25	0	18.60	19.18	18.20



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	22.06	21.90	21.78
		1	7	21.84	21.75	21.54
		1	14	22.17	21.87	21.31
		8	0	21.24	21.01	20.88
		8	3	21.12	21.03	20.77
		8	7	21.21	21.02	20.75
		15	0	21.09	21.01	20.73
3M	16QAM	1	0	20.58	20.36	20.51
		1	7	20.72	21.08	20.55
		1	14	20.91	20.92	20.59
		8	0	20.11	19.84	19.67
		8	3	20.21	19.81	19.90
		8	7	20.16	19.85	19.87
		15	0	19.90	19.93	19.59
3M	64QAM	1	0	19.59	19.50	19.53
		1	7	19.61	20.04	19.50
		1	14	19.83	19.87	19.61
		8	0	19.02	19.01	18.69
		8	3	19.26	18.69	18.81
		8	7	19.05	19.01	18.97
		15	0	18.91	18.90	18.52



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	22.07	21.98	21.96
		1	2	22.00	21.81	21.66
		1	5	21.91	21.71	21.48
		3	0	22.04	21.95	21.58
		3	1	21.83	21.92	21.67
		3	3	21.99	21.89	21.68
		6	0	20.91	21.04	20.51
1.4M	16QAM	1	0	20.53	20.62	20.73
		1	2	20.86	20.54	20.43
		1	5	20.85	20.44	20.99
		3	0	21.07	20.78	20.57
		3	1	20.86	20.95	20.63
		3	3	20.89	20.83	20.67
		6	0	19.87	19.81	19.52
1.4M	64QAM	1	0	19.71	19.83	19.79
		1	2	19.87	19.57	19.54
		1	5	19.92	19.47	19.92
		3	0	20.11	19.93	19.64
		3	1	20.00	20.01	19.76
		3	3	19.96	19.70	19.70
		6	0	18.86	18.92	18.47

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	24.41	24.47	24.37
		1	50	24.08	23.82	23.87
		1	99	24.37	24.01	23.77
		50	0	23.35	23.31	23.27
		50	25	23.30	23.19	23.09
		50	50	23.19	23.25	23.02
		100	0	23.17	23.21	23.18
20M	16QAM	1	0	23.52	22.85	22.63
		1	50	23.36	23.26	22.77
		1	99	22.60	23.01	22.90
		50	0	22.30	22.24	22.17
		50	25	22.19	22.09	22.09
		50	50	22.41	22.20	21.76
		100	0	22.23	22.12	21.85
20M	64QAM	1	0	22.59	21.75	21.51
		1	50	22.23	22.20	21.88
		1	99	21.65	22.07	22.08
		50	0	21.47	21.15	21.16
		50	25	21.30	21.10	21.03
		50	50	21.41	21.23	20.86
		100	0	21.13	21.30	20.84

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

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	24.28	24.23	24.18
		1	37	24.13	24.18	24.03
		1	74	24.15	24.10	23.69
		36	0	23.25	23.08	23.04
		36	19	23.23	23.12	22.87
		36	39	23.23	23.08	22.91
		75	0	23.23	23.06	22.87
15M	16QAM	1	0	22.81	23.14	22.90
		1	37	23.37	22.50	22.94
		1	74	22.70	22.81	22.14
		36	0	22.28	22.09	21.91
		36	19	22.18	22.12	21.96
		36	39	22.08	22.19	21.73
		75	0	22.13	22.14	22.04
15M	64QAM	1	0	21.65	22.00	21.97
		1	37	22.41	21.45	22.01
		1	74	21.77	21.85	21.03
		36	0	21.23	21.23	20.97
		36	19	21.08	21.01	20.95
		36	39	21.24	20.99	20.70
		75	0	21.20	20.95	21.18

*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	24.31	24.23	24.01
		1	24	23.90	23.93	23.77
		1	49	24.20	24.06	23.55
		25	0	23.22	23.08	22.91
		25	12	23.16	23.11	22.94
		25	25	23.19	23.05	22.71
		50	0	23.30	23.12	22.84
10M	16QAM	1	0	22.97	22.41	23.09
		1	24	23.27	22.78	22.41
		1	49	23.32	22.50	22.57
		25	0	22.16	22.05	21.90
		25	12	22.07	22.06	21.98
		25	25	22.15	22.06	21.57
		50	0	22.14	21.93	21.79
10M	64QAM	1	0	21.88	21.25	22.12
		1	24	22.38	21.87	21.42
		1	49	22.24	21.54	21.51
		25	0	21.20	21.13	20.96
		25	12	21.16	21.17	21.00
		25	25	21.22	21.00	20.53
		50	0	21.19	20.99	20.90

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

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	24.15	24.22	23.79
		1	12	23.41	23.62	23.36
		1	24	23.85	23.93	23.13
		12	0	22.84	23.07	22.51
		12	6	22.87	23.10	22.54
		12	13	22.87	22.98	22.46
		25	0	22.85	22.99	22.48
5M	16QAM	1	0	23.04	22.92	22.23
		1	12	22.86	22.56	22.54
		1	24	22.42	22.16	22.30
		12	0	21.77	21.99	21.66
		12	6	21.76	22.01	21.56
		12	13	21.98	21.71	21.49
		25	0	21.82	22.16	21.25
5M	64QAM	1	0	22.15	21.79	21.19
		1	12	21.89	21.60	21.61
		1	24	21.27	21.37	21.29
		12	0	20.83	20.96	20.77
		12	6	20.86	20.96	20.46
		12	13	21.10	20.77	20.45
		25	0	20.66	21.24	20.26

*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	24.12	23.96	23.84
		1	7	23.90	23.81	23.60
		1	14	24.23	23.93	23.37
		8	0	23.30	23.07	22.94
		8	3	23.18	23.09	22.83
		8	7	23.27	23.08	22.81
		15	0	23.15	23.07	22.79
3M	16QAM	1	0	22.64	22.42	22.57
		1	7	22.78	23.14	22.61
		1	14	22.97	22.98	22.65
		8	0	22.17	21.90	21.73
		8	3	22.27	21.87	21.96
		8	7	22.22	21.91	21.93
		15	0	21.96	21.99	21.65
3M	64QAM	1	0	21.65	21.56	21.59
		1	7	21.67	22.10	21.56
		1	14	21.89	21.93	21.67
		8	0	21.08	21.07	20.75
		8	3	21.32	20.75	20.87
		8	7	21.11	21.07	21.03
		15	0	20.97	20.96	20.58

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

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	24.13	24.04	24.02
		1	2	24.06	23.87	23.72
		1	5	23.97	23.77	23.54
		3	0	24.10	24.01	23.64
		3	1	23.89	23.98	23.73
		3	3	24.05	23.95	23.74
		6	0	22.97	23.10	22.57
1.4M	16QAM	1	0	22.59	22.68	22.79
		1	2	22.92	22.60	22.49
		1	5	22.91	22.50	23.05
		3	0	23.13	22.84	22.63
		3	1	22.92	23.01	22.69
		3	3	22.95	22.89	22.73
		6	0	21.93	21.87	21.58
1.4M	64QAM	1	0	21.77	21.89	21.85
		1	2	21.93	21.63	21.60
		1	5	21.98	21.53	21.98
		3	0	22.17	21.99	21.70
		3	1	22.06	22.07	21.82
		3	3	22.02	21.76	21.76
		6	0	20.92	20.98	20.53

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

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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	23.45	23.56	23.33
		1	50	22.94	22.69	23.14
		1	99	22.97	23.14	22.53
		50	0	21.94	22.12	22.19
		50	25	22.11	21.84	22.08
		50	50	22.16	22.12	22.16
		100	0	22.20	22.33	22.01
20M	16QAM	1	0	22.00	21.76	21.71
		1	50	21.94	21.89	21.90
		1	99	22.31	21.99	21.64
		50	0	21.20	20.94	20.98
		50	25	21.06	20.86	20.87
		50	50	21.17	21.46	21.13
		100	0	21.31	21.28	21.26
20M	64QAM	1	0	21.02	21.19	21.10
		1	50	20.75	20.81	20.96
		1	99	21.32	21.25	20.98
		50	0	19.83	20.30	19.73
		50	25	20.45	19.77	20.21
		50	50	20.16	20.44	19.66
		100	0	20.10	20.31	19.73



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	23.44	23.13	22.94
		1	37	22.79	22.55	22.77
		1	74	22.97	22.57	22.37
		36	0	22.19	22.33	21.86
		36	19	22.19	22.07	21.95
		36	39	22.19	22.17	21.88
		75	0	22.18	22.11	21.92
15M	16QAM	1	0	21.68	22.17	22.27
		1	37	21.90	22.27	21.99
		1	74	22.12	21.52	21.46
		36	0	20.78	21.20	21.09
		36	19	20.96	20.82	21.03
		36	39	21.12	21.26	20.95
		75	0	21.03	21.05	21.31
15M	64QAM	1	0	21.15	21.28	21.01
		1	37	20.97	21.11	21.39
		1	74	21.00	20.42	20.54
		36	0	20.05	19.91	19.93
		36	19	20.37	19.82	19.96
		36	39	19.72	20.25	19.93
		75	0	20.31	20.19	20.00

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		133172	133297	133422
		Frequency (MHz)		668	680.5	693
10M	QPSK	1	0	23.23	23.32	23.11
		1	24	22.61	22.88	23.05
		1	49	22.99	22.57	23.01
		25	0	22.37	22.23	22.00
		25	12	22.23	21.82	21.88
		25	25	22.16	22.02	22.01
		50	0	22.10	21.78	21.86
10M	16QAM	1	0	22.04	21.79	22.15
		1	24	22.33	22.22	21.82
		1	49	21.85	21.38	20.94
		25	0	21.33	21.00	20.78
		25	12	20.96	20.86	20.96
		25	25	21.11	20.77	20.81
		50	0	20.93	21.04	20.67
10M	64QAM	1	0	20.99	20.78	20.92
		1	24	21.14	21.29	20.78
		1	49	20.53	20.12	20.08
		25	0	20.21	19.77	19.91
		25	12	20.38	20.22	19.91
		25	25	20.45	19.85	19.97
		50	0	20.49	20.14	19.63

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	23.17	23.31	23.21
		1	12	23.11	22.74	22.89
		1	24	23.30	23.30	22.68
		12	0	23.10	23.30	22.83
		12	6	23.17	23.01	23.00
		12	13	22.74	23.30	23.09
		25	0	22.10	22.11	22.08
5M	16QAM	1	0	21.96	22.17	21.37
		1	12	21.97	21.82	21.71
		1	24	22.23	21.79	21.51
		12	0	22.16	22.02	21.55
		12	6	22.19	22.26	21.91
		12	13	21.76	22.25	21.64
		25	0	20.81	20.37	20.40
5M	64QAM	1	0	21.33	21.28	20.46
		1	12	21.19	21.08	20.66
		1	24	21.03	20.82	20.21
		12	0	21.00	21.28	20.58
		12	6	21.06	21.27	20.95
		12	13	21.07	21.33	20.74
		25	0	20.05	19.65	19.47

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	22.88	22.99	22.76
		1	50	22.37	22.12	22.57
		1	99	22.40	22.57	21.96
		50	0	21.37	21.55	21.62
		50	25	21.54	21.27	21.51
		50	50	21.59	21.55	21.59
		100	0	21.63	21.76	21.44
20M	16QAM	1	0	21.43	21.19	21.14
		1	50	21.37	21.32	21.33
		1	99	21.74	21.42	21.07
		50	0	20.63	20.37	20.41
		50	25	20.49	20.29	20.30
		50	50	20.60	20.89	20.56
		100	0	20.74	20.71	20.69
20M	64QAM	1	0	20.45	20.62	20.53
		1	50	20.18	20.24	20.39
		1	99	20.75	20.68	20.41
		50	0	19.26	19.73	19.16
		50	25	19.88	19.20	19.64
		50	50	19.59	19.87	19.09
		100	0	19.53	19.74	19.16

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

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	22.87	22.56	22.37
		1	37	22.22	21.98	22.20
		1	74	22.40	22.00	21.80
		36	0	21.62	21.76	21.29
		36	19	21.62	21.50	21.38
		36	39	21.62	21.60	21.31
		75	0	21.61	21.54	21.35
15M	16QAM	1	0	21.11	21.60	21.70
		1	37	21.33	21.70	21.42
		1	74	21.55	20.95	20.89
		36	0	20.21	20.63	20.52
		36	19	20.39	20.25	20.46
		36	39	20.55	20.69	20.38
		75	0	20.46	20.48	20.74
15M	64QAM	1	0	20.58	20.71	20.44
		1	37	20.40	20.54	20.82
		1	74	20.43	19.85	19.97
		36	0	19.48	19.34	19.36
		36	19	19.80	19.25	19.39
		36	39	19.15	19.68	19.36
		75	0	19.74	19.62	19.43

*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	22.66	22.75	22.54
		1	24	22.04	22.31	22.48
		1	49	22.42	22.00	22.44
		25	0	21.80	21.66	21.43
		25	12	21.66	21.25	21.31
		25	25	21.59	21.45	21.44
		50	0	21.53	21.21	21.29
10M	16QAM	1	0	21.47	21.22	21.58
		1	24	21.76	21.65	21.25
		1	49	21.28	20.81	20.37
		25	0	20.76	20.43	20.21
		25	12	20.39	20.29	20.39
		25	25	20.54	20.20	20.24
		50	0	20.36	20.47	20.10
10M	64QAM	1	0	20.42	20.21	20.35
		1	24	20.57	20.72	20.21
		1	49	19.96	19.55	19.51
		25	0	19.64	19.20	19.34
		25	12	19.81	19.65	19.34
		25	25	19.88	19.28	19.40
		50	0	19.92	19.57	19.06

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

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	22.60	22.74	22.64
		1	12	22.54	22.17	22.32
		1	24	22.73	22.73	22.11
		12	0	22.53	22.73	22.26
		12	6	22.60	22.44	22.43
		12	13	22.17	22.73	22.52
		25	0	21.53	21.54	21.51
5M	16QAM	1	0	21.39	21.60	20.80
		1	12	21.40	21.25	21.14
		1	24	21.66	21.22	20.94
		12	0	21.59	21.45	20.98
		12	6	21.62	21.69	21.34
		12	13	21.19	21.68	21.07
		25	0	20.24	19.80	19.83
5M	64QAM	1	0	20.76	20.71	19.89
		1	12	20.62	20.51	20.09
		1	24	20.46	20.25	19.64
		12	0	20.43	20.71	20.01
		12	6	20.49	20.70	20.38
		12	13	20.50	20.76	20.17
		25	0	19.48	19.08	18.90

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

7.2 Modulation Characteristics

Input Power:	3.8 Vdc	Environmental Conditions:	21°C, 72% RH	Tested By:	Willy Cheng
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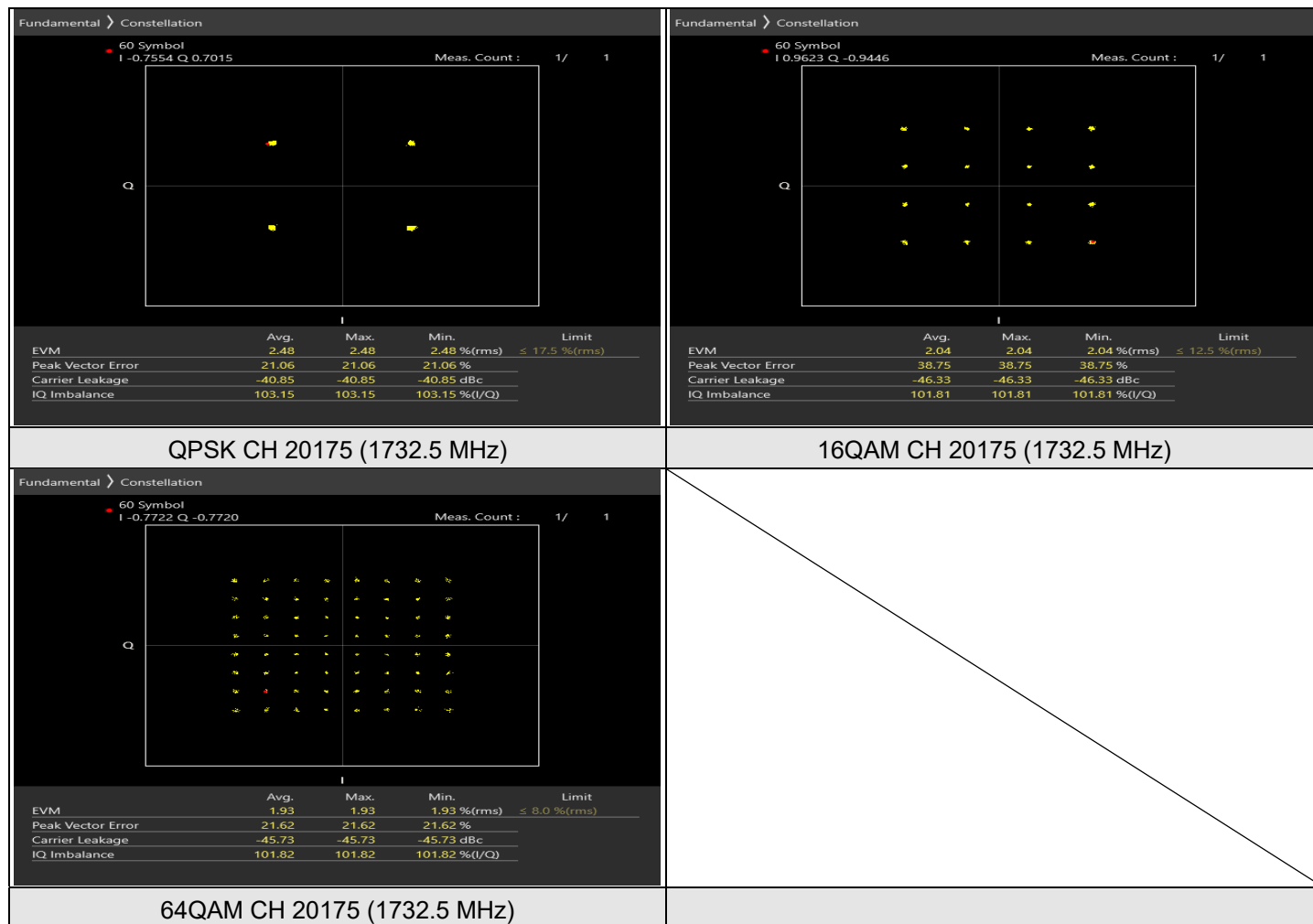
7.2.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz



7.2.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 20 MHz



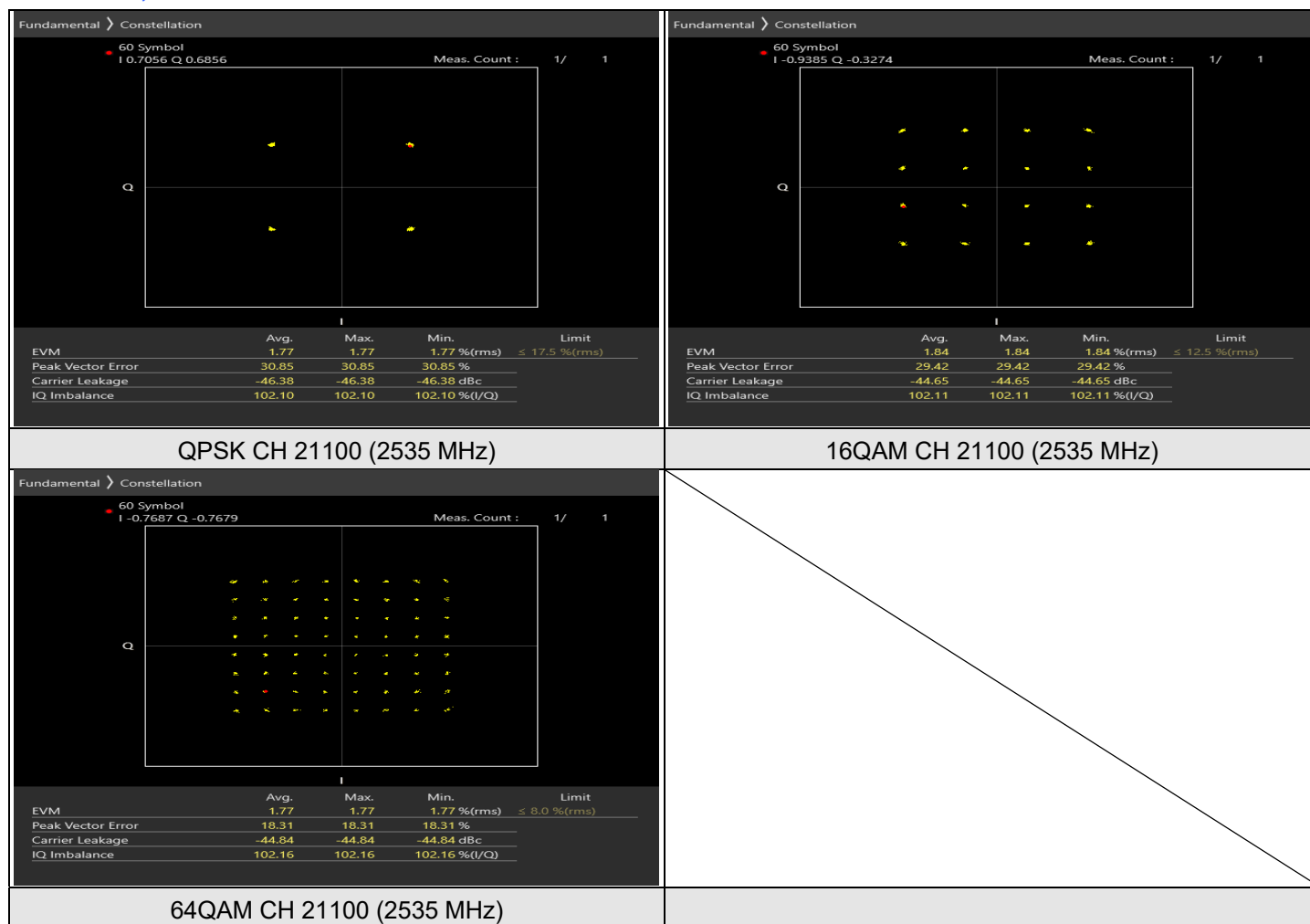
7.2.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz



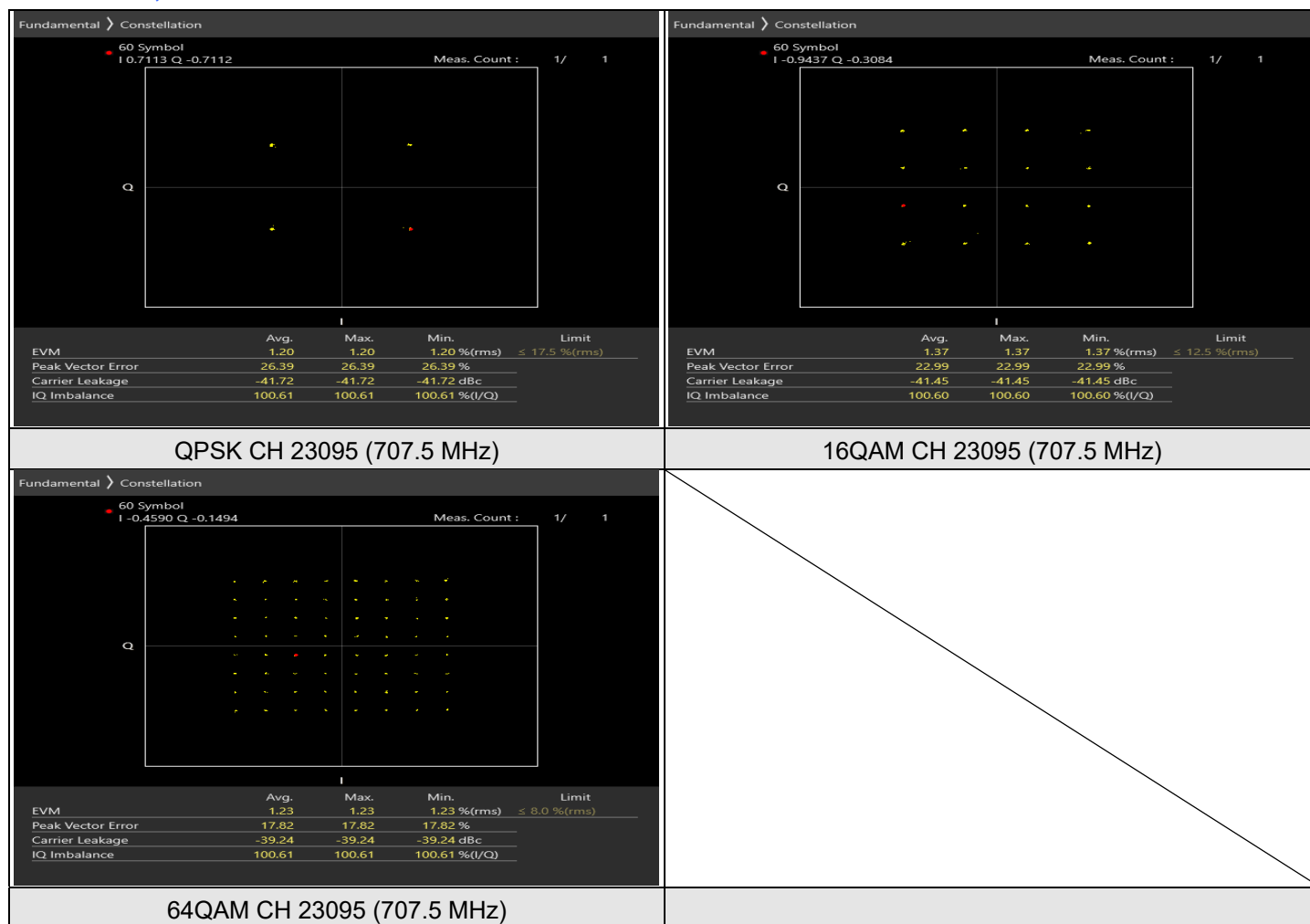
7.2.4 LTE Band 7

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



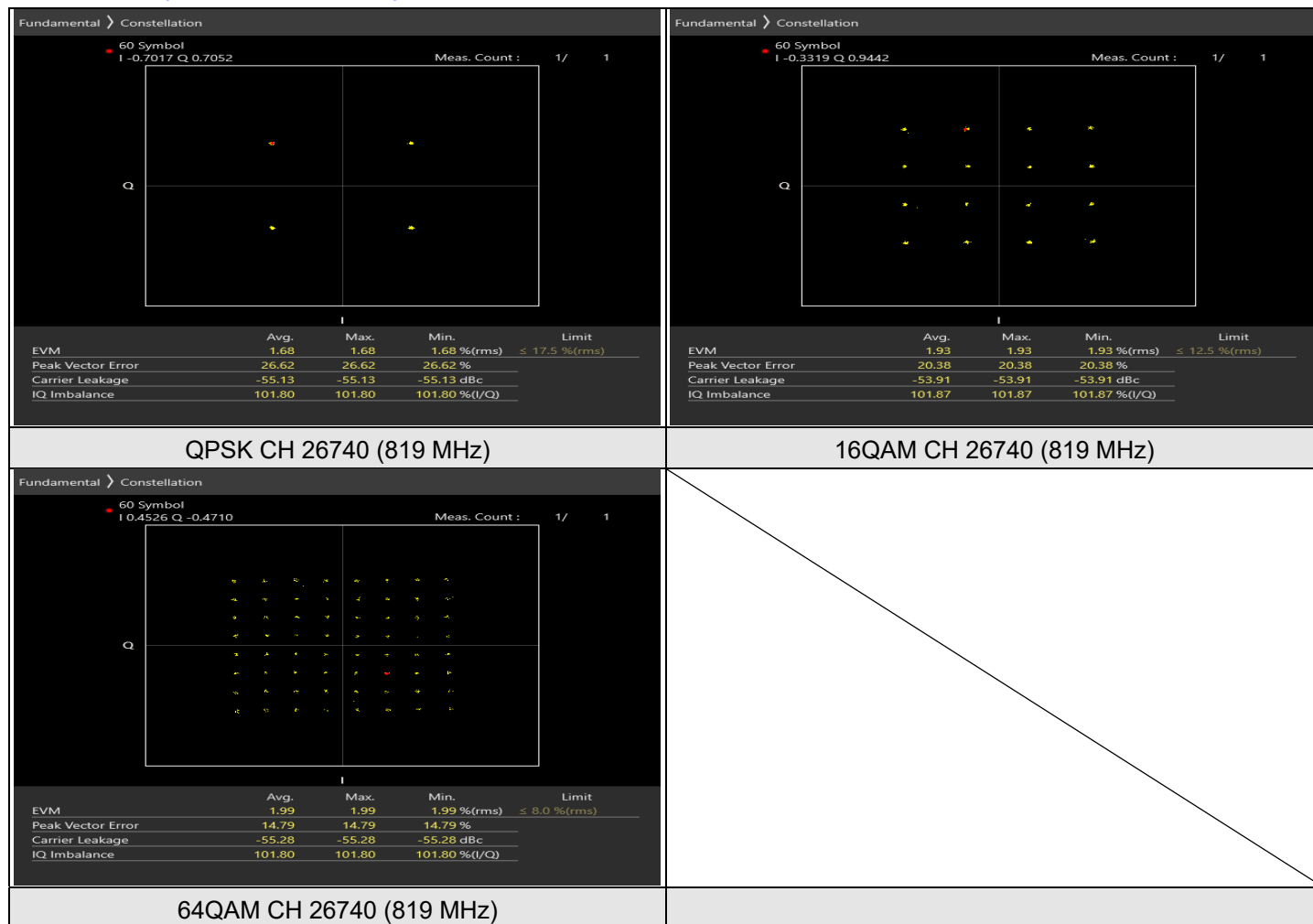
7.2.9 LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz



7.2.10LTE Band 26 (814 MHz ~ 824 MHz)

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz



7.2.11 LTE Band 26 (824 MHz ~ 849 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz



7.2.12LTE Band 41

LTE Band 41, Channel Bandwidth: 20 MHz



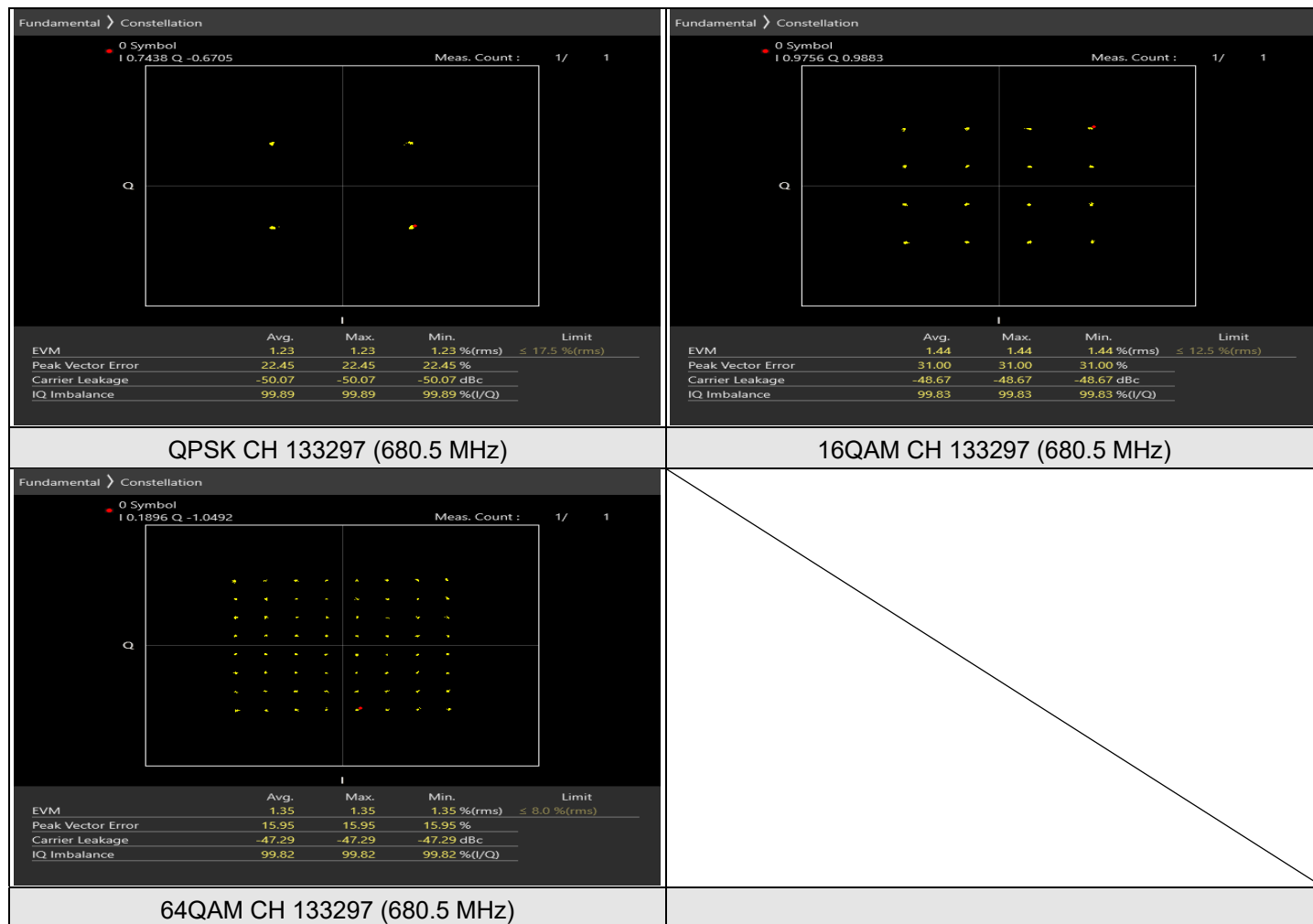
7.2.13LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz



7.2.14 LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz



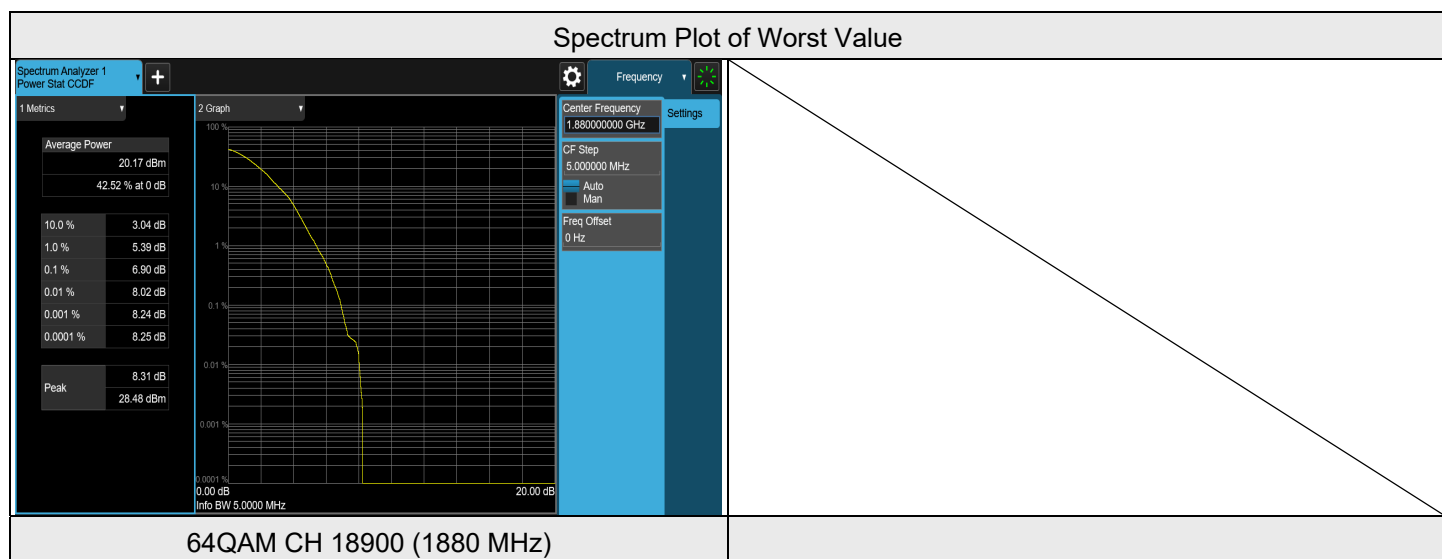
7.3 Peak to Average Ratio

Input Power:	3.8 Vdc	Environmental Conditions:	21°C, 72% RH	Tested By:	Willy Cheng
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7.3.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

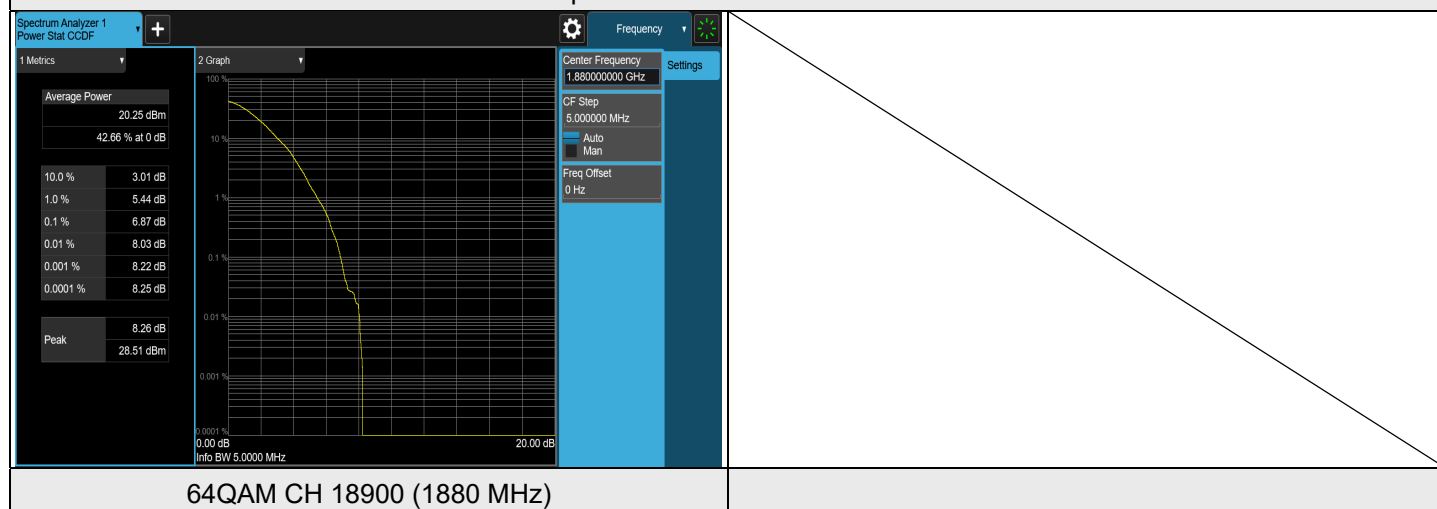
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18607	1850.7	5.34	13	PASS
QPSK	18900	1880	5.50	13	PASS
QPSK	19193	1909.3	5.37	13	PASS
16QAM	18607	1850.7	6.38	13	PASS
16QAM	18900	1880	6.79	13	PASS
16QAM	19193	1909.3	6.59	13	PASS
64QAM	18607	1850.7	6.68	13	PASS
64QAM	18900	1880	6.90	13	PASS
64QAM	19193	1909.3	6.68	13	PASS



LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18615	1851.5	5.32	13	PASS
QPSK	18900	1880	5.50	13	PASS
QPSK	19185	1908.5	5.41	13	PASS
16QAM	18615	1851.5	6.51	13	PASS
16QAM	18900	1880	6.81	13	PASS
16QAM	19185	1908.5	6.54	13	PASS
64QAM	18615	1851.5	6.66	13	PASS
64QAM	18900	1880	6.87	13	PASS
64QAM	19185	1908.5	6.74	13	PASS

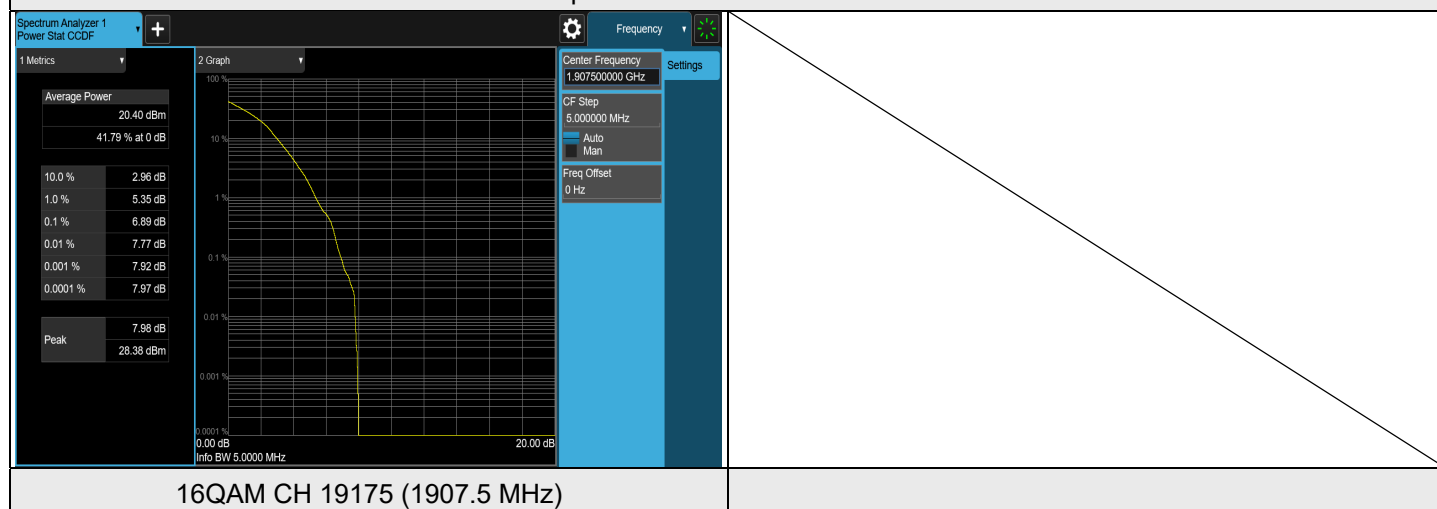
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18625	1852.5	5.28	13	PASS
QPSK	18900	1880	5.58	13	PASS
QPSK	19175	1907.5	5.51	13	PASS
16QAM	18625	1852.5	6.57	13	PASS
16QAM	18900	1880	6.75	13	PASS
16QAM	19175	1907.5	6.89	13	PASS
64QAM	18625	1852.5	6.70	13	PASS
64QAM	18900	1880	6.87	13	PASS
64QAM	19175	1907.5	6.72	13	PASS

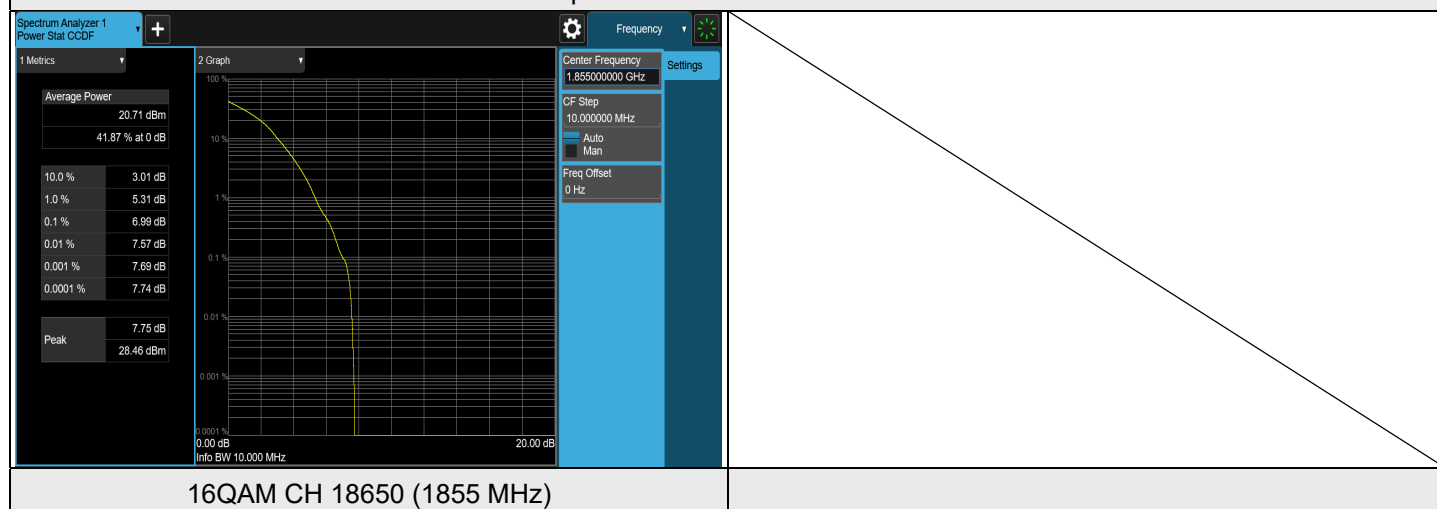
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18650	1855	5.35	13	PASS
QPSK	18900	1880	5.61	13	PASS
QPSK	19150	1905	5.62	13	PASS
16QAM	18650	1855	6.99	13	PASS
16QAM	18900	1880	6.93	13	PASS
16QAM	19150	1905	6.82	13	PASS
64QAM	18650	1855	6.65	13	PASS
64QAM	18900	1880	6.85	13	PASS
64QAM	19150	1905	6.96	13	PASS

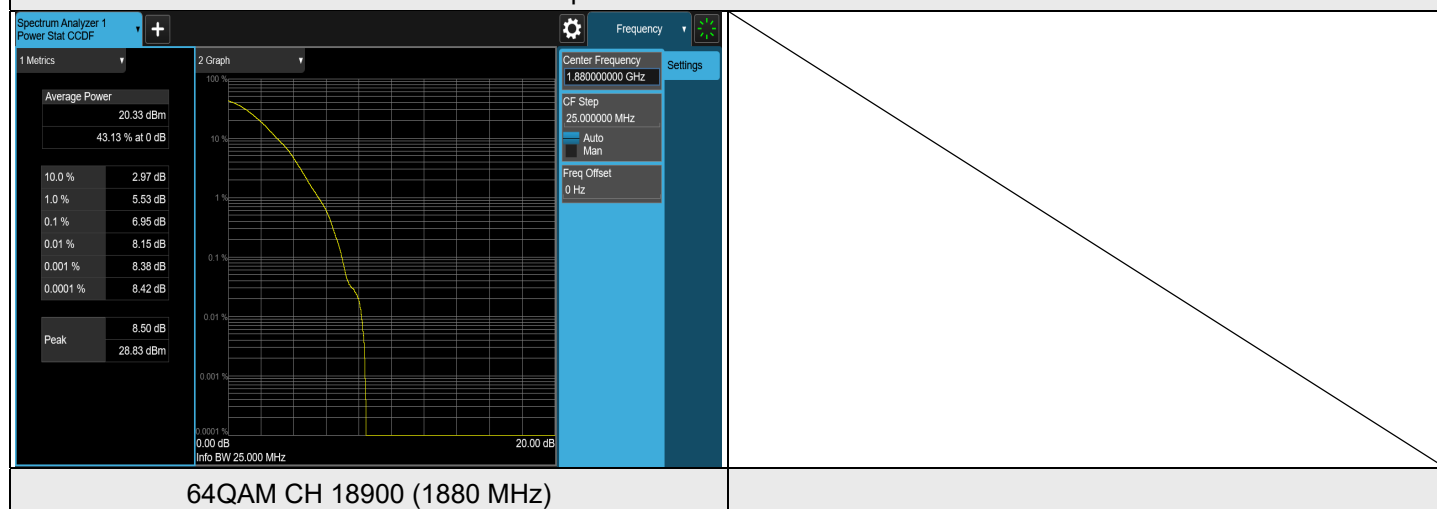
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18675	1857.5	5.22	13	PASS
QPSK	18900	1880	5.67	13	PASS
QPSK	19125	1902.5	5.63	13	PASS
16QAM	18675	1857.5	6.55	13	PASS
16QAM	18900	1880	6.71	13	PASS
16QAM	19125	1902.5	6.64	13	PASS
64QAM	18675	1857.5	6.70	13	PASS
64QAM	18900	1880	6.95	13	PASS
64QAM	19125	1902.5	6.75	13	PASS

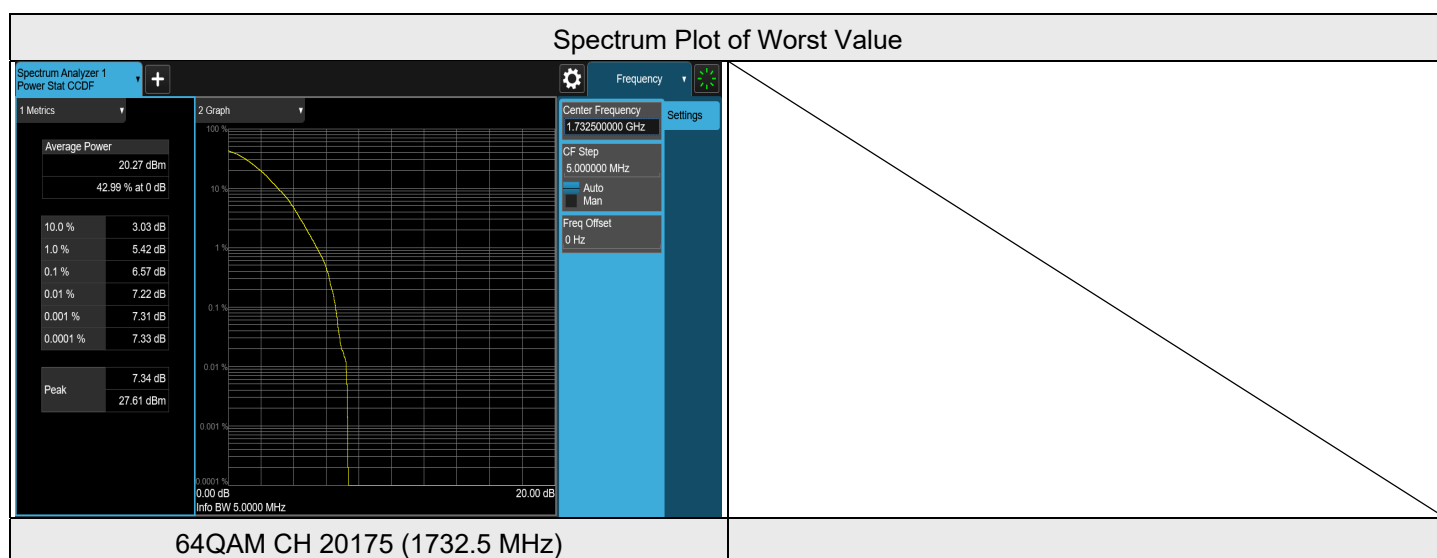
Spectrum Plot of Worst Value



7.3.2 LTE Band 4

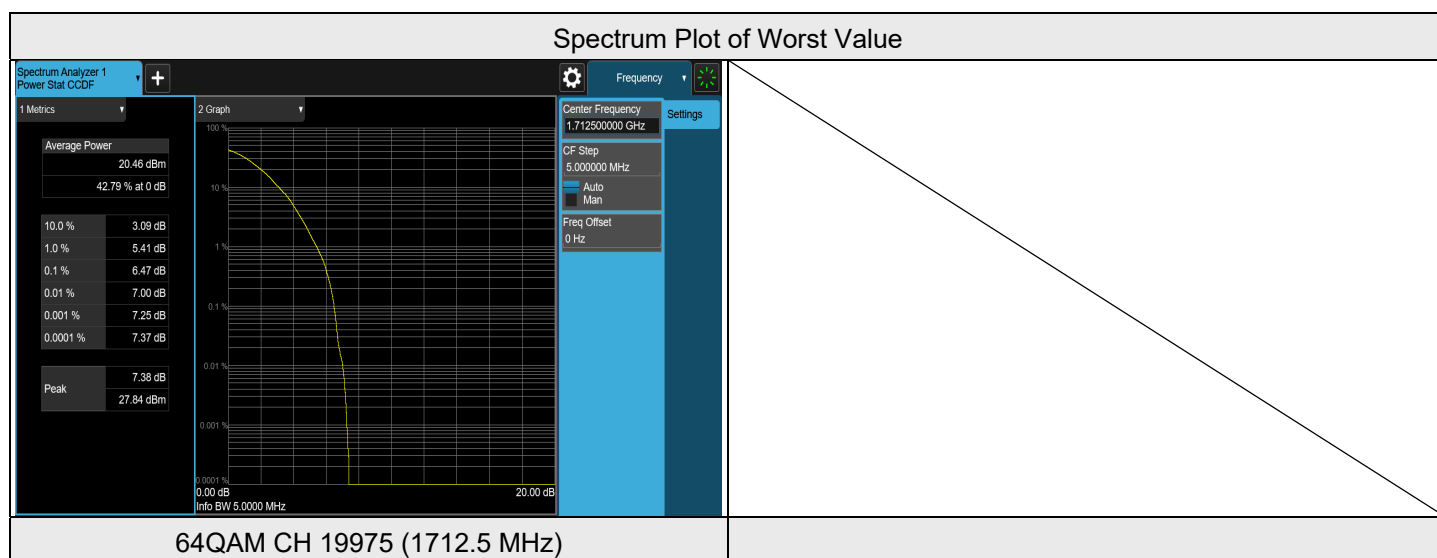
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19957	1710.7	4.81	13	PASS
QPSK	20175	1732.5	4.80	13	PASS
QPSK	20393	1754.3	4.47	13	PASS
16QAM	19957	1710.7	5.83	13	PASS
16QAM	20175	1732.5	6.27	13	PASS
16QAM	20393	1754.3	5.74	13	PASS
64QAM	19957	1710.7	6.44	13	PASS
64QAM	20175	1732.5	6.57	13	PASS
64QAM	20393	1754.3	6.12	13	PASS



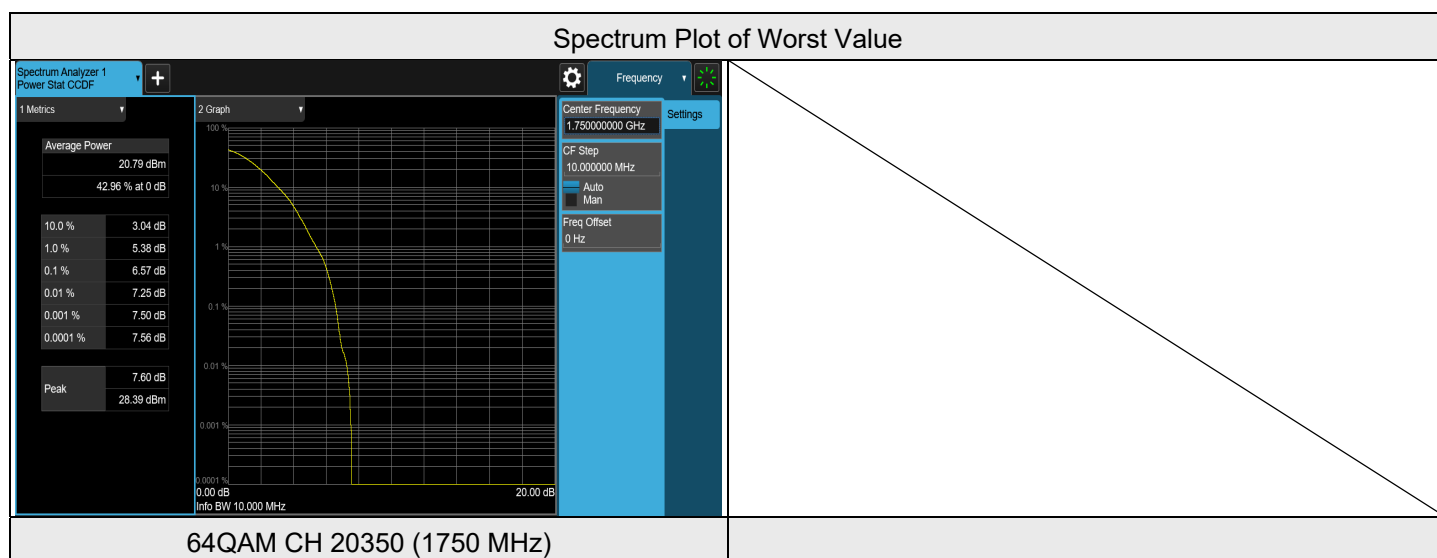
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19975	1712.5	4.83	13	PASS
QPSK	20175	1732.5	4.93	13	PASS
QPSK	20375	1752.5	4.92	13	PASS
16QAM	19975	1712.5	6.20	13	PASS
16QAM	20175	1732.5	6.23	13	PASS
16QAM	20375	1752.5	6.17	13	PASS
64QAM	19975	1712.5	6.47	13	PASS
64QAM	20175	1732.5	6.41	13	PASS
64QAM	20375	1752.5	6.45	13	PASS



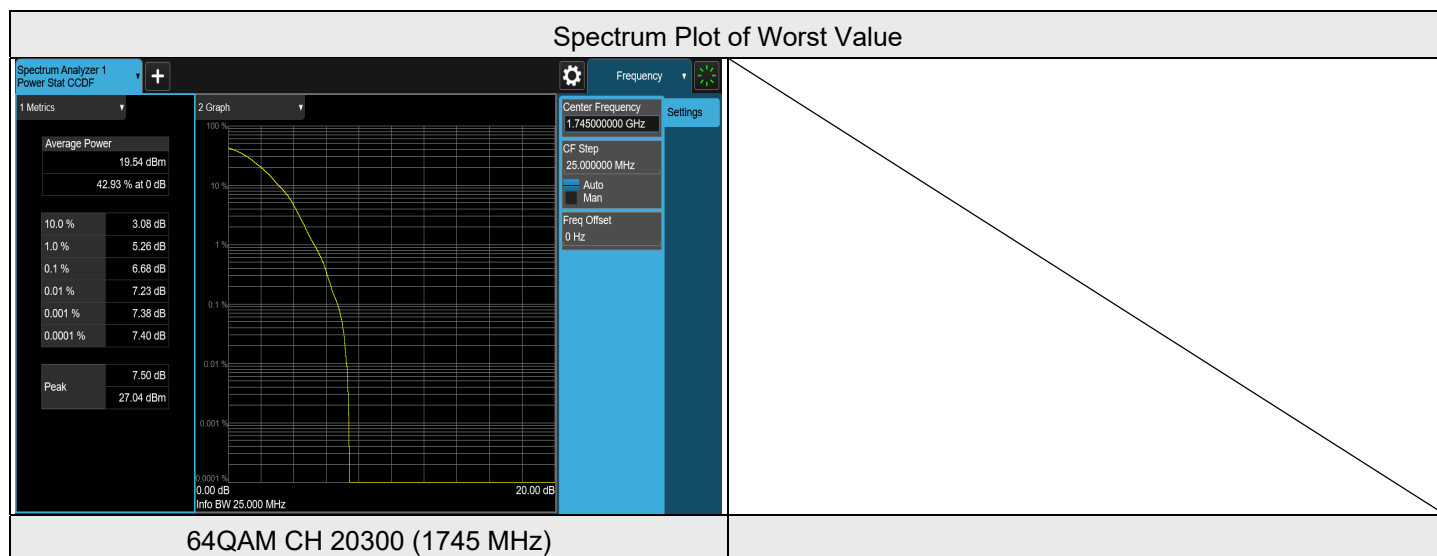
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20000	1715	4.71	13	PASS
QPSK	20175	1732.5	4.97	13	PASS
QPSK	20350	1750	5.19	13	PASS
16QAM	20000	1715	6.09	13	PASS
16QAM	20175	1732.5	6.11	13	PASS
16QAM	20350	1750	6.38	13	PASS
64QAM	20000	1715	6.43	13	PASS
64QAM	20175	1732.5	6.47	13	PASS
64QAM	20350	1750	6.57	13	PASS



LTE Band 4, Channel Bandwidth: 20 MHz

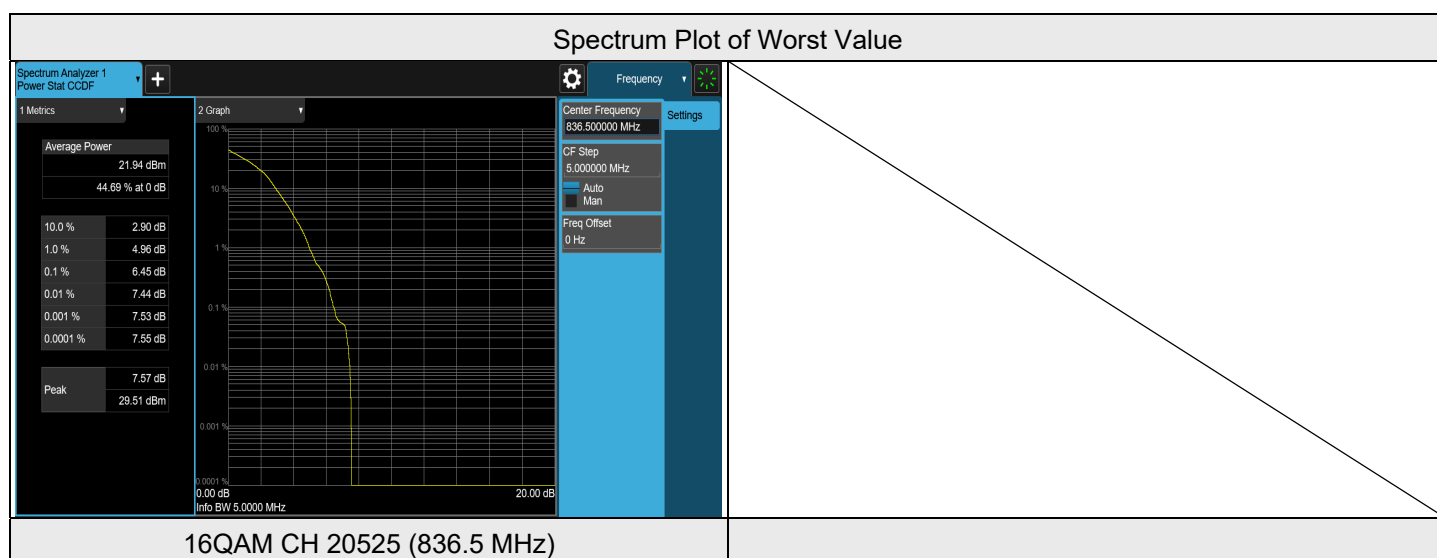
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20050	1720	4.77	13	PASS
QPSK	20175	1732.5	4.71	13	PASS
QPSK	20300	1745	5.09	13	PASS
16QAM	20050	1720	5.99	13	PASS
16QAM	20175	1732.5	5.37	13	PASS
16QAM	20300	1745	6.11	13	PASS
64QAM	20050	1720	6.31	13	PASS
64QAM	20175	1732.5	6.22	13	PASS
64QAM	20300	1745	6.68	13	PASS



7.3.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

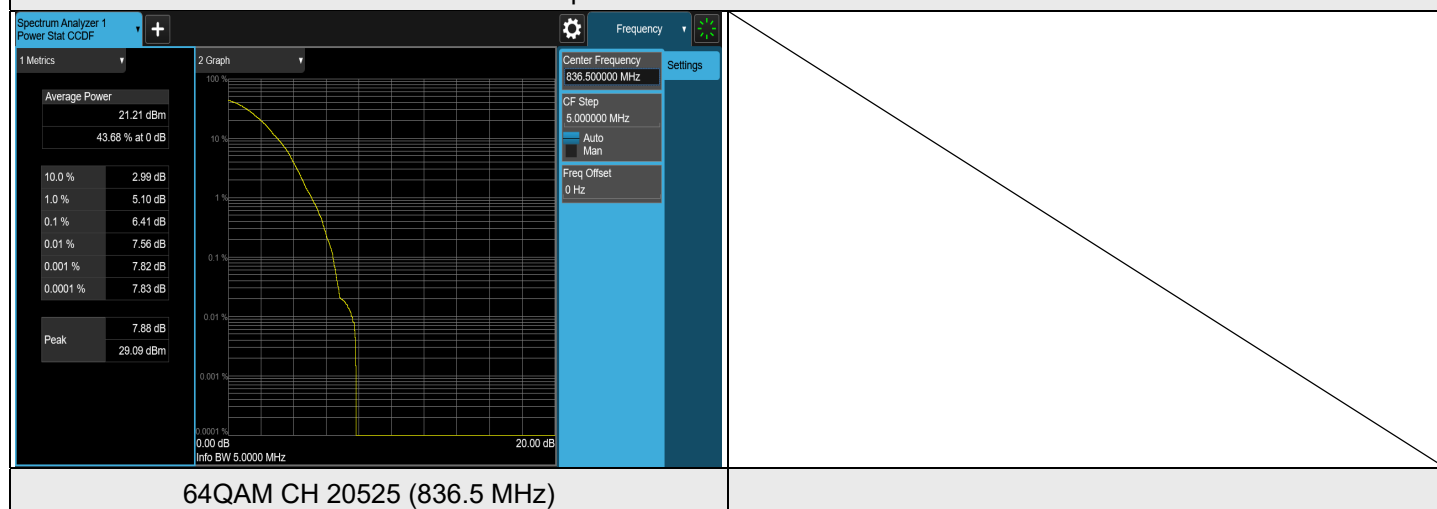
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20407	824.7	5.07	13	PASS
QPSK	20525	836.5	5.15	13	PASS
QPSK	20643	848.3	4.91	13	PASS
16QAM	20407	824.7	6.22	13	PASS
16QAM	20525	836.5	6.45	13	PASS
16QAM	20643	848.3	6.24	13	PASS
64QAM	20407	824.7	6.35	13	PASS
64QAM	20525	836.5	6.45	13	PASS
64QAM	20643	848.3	6.19	13	PASS



LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20415	825.5	4.99	13	PASS
QPSK	20525	836.5	5.14	13	PASS
QPSK	20635	847.5	4.96	13	PASS
16QAM	20415	825.5	6.33	13	PASS
16QAM	20525	836.5	6.26	13	PASS
16QAM	20635	847.5	6.27	13	PASS
64QAM	20415	825.5	6.40	13	PASS
64QAM	20525	836.5	6.41	13	PASS
64QAM	20635	847.5	6.35	13	PASS

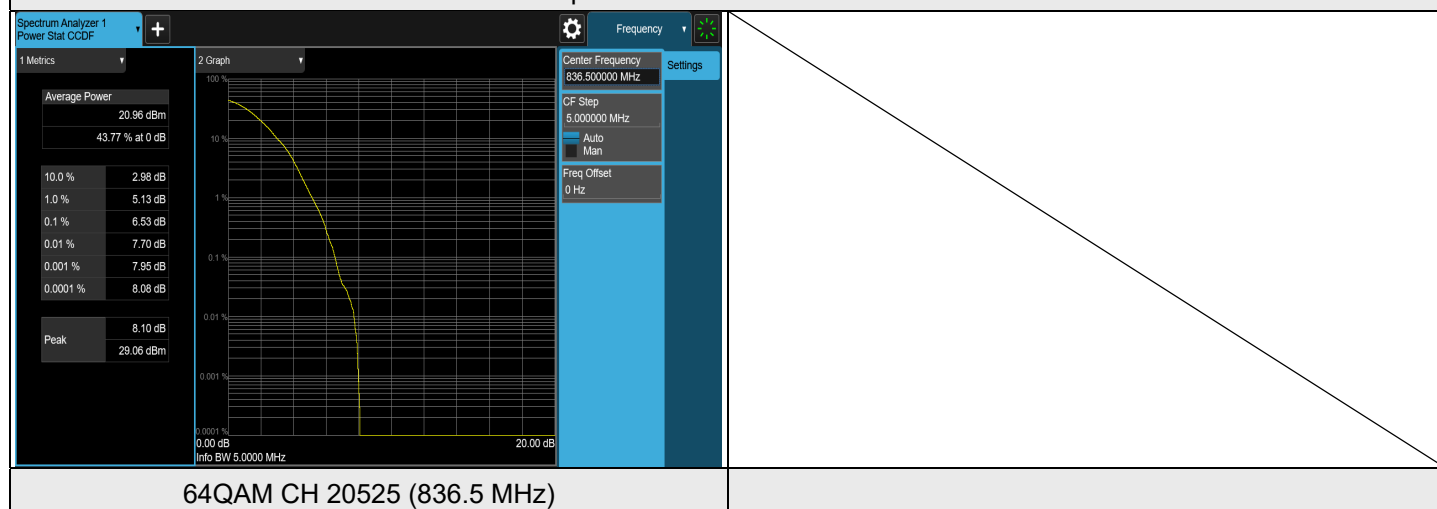
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20425	826.5	4.98	13	PASS
QPSK	20525	836.5	5.11	13	PASS
QPSK	20625	846.5	4.98	13	PASS
16QAM	20425	826.5	6.35	13	PASS
16QAM	20525	836.5	6.32	13	PASS
16QAM	20625	846.5	6.17	13	PASS
64QAM	20425	826.5	6.32	13	PASS
64QAM	20525	836.5	6.53	13	PASS
64QAM	20625	846.5	6.32	13	PASS

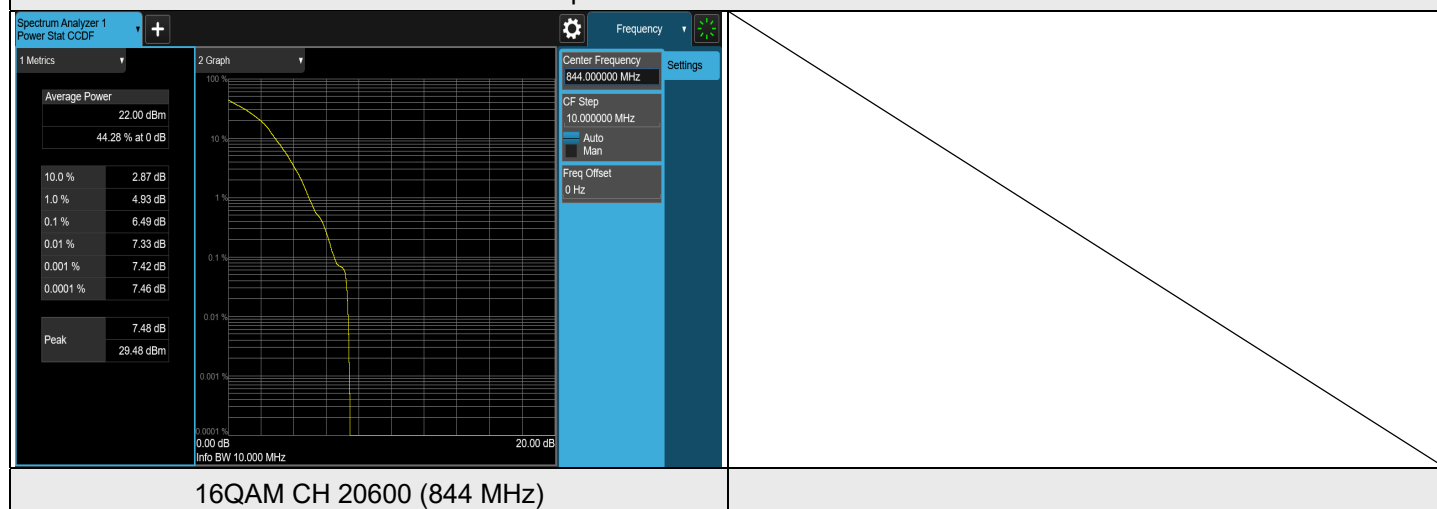
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20450	829	4.89	13	PASS
QPSK	20525	836.5	5.16	13	PASS
QPSK	20600	844	5.16	13	PASS
16QAM	20450	829	6.42	13	PASS
16QAM	20525	836.5	6.45	13	PASS
16QAM	20600	844	6.49	13	PASS
64QAM	20450	829	6.33	13	PASS
64QAM	20525	836.5	6.38	13	PASS
64QAM	20600	844	6.30	13	PASS

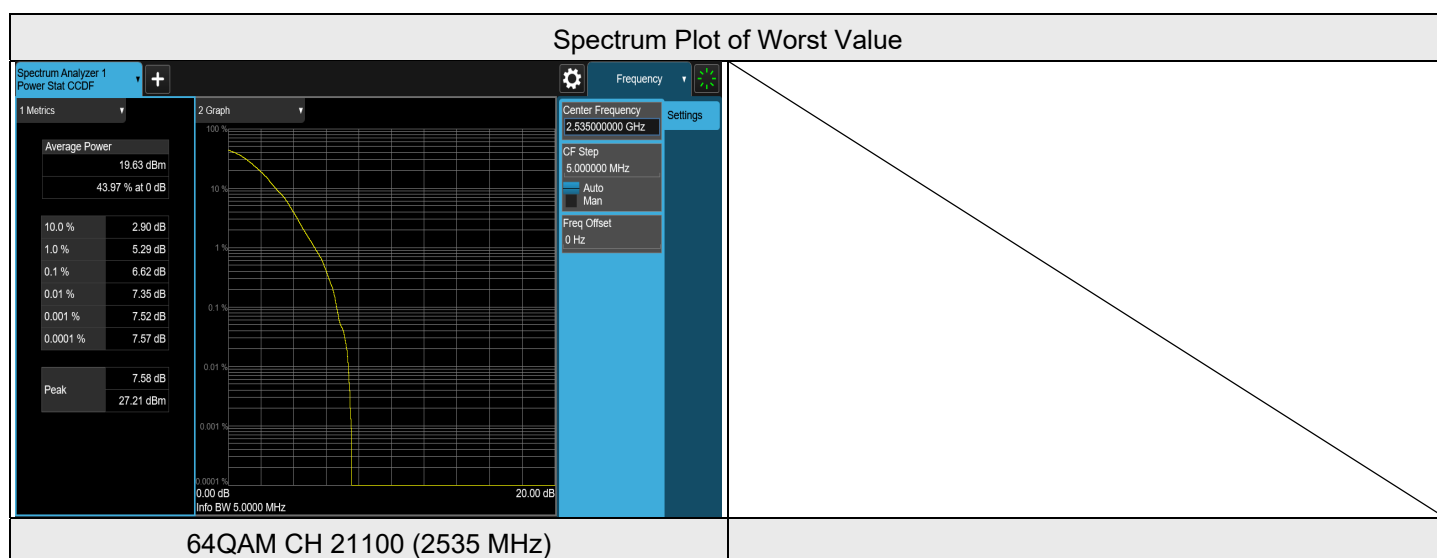
Spectrum Plot of Worst Value



7.3.4 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

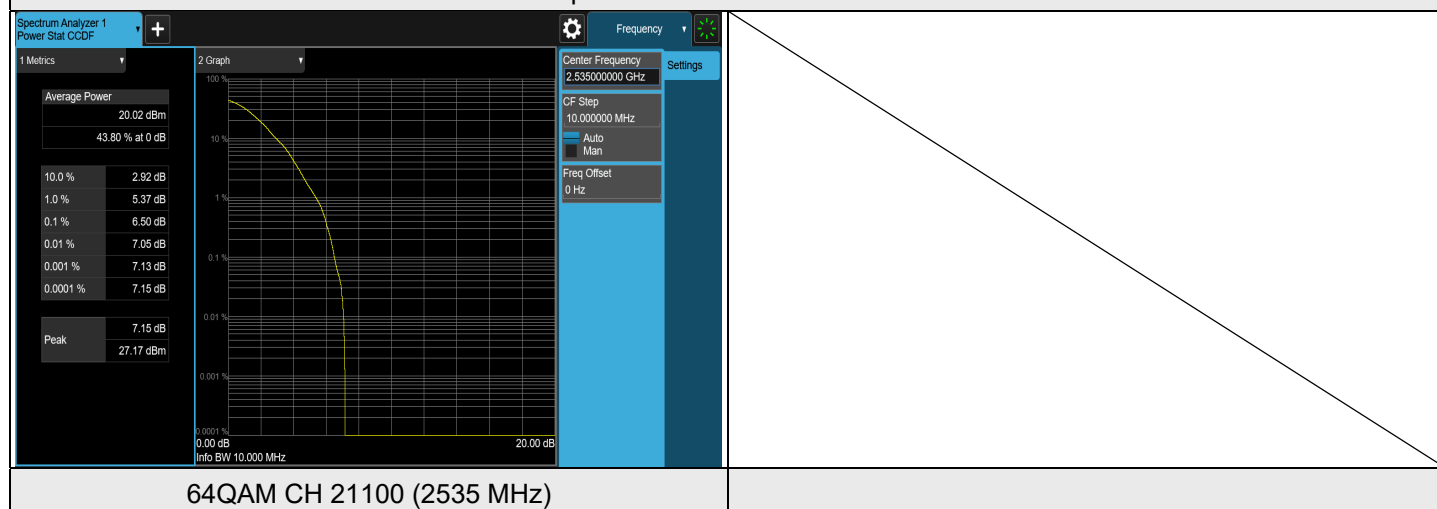
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20775	2502.5	4.71	13	PASS
QPSK	21100	2535	4.96	13	PASS
QPSK	21425	2567.5	4.19	13	PASS
16QAM	20775	2502.5	5.93	13	PASS
16QAM	21100	2535	6.24	13	PASS
16QAM	21425	2567.5	5.70	13	PASS
64QAM	20775	2502.5	6.36	13	PASS
64QAM	21100	2535	6.62	13	PASS
64QAM	21425	2567.5	6.19	13	PASS



LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20800	2505	4.79	13	PASS
QPSK	21100	2535	4.96	13	PASS
QPSK	21400	2565	3.79	13	PASS
16QAM	20800	2505	5.86	13	PASS
16QAM	21100	2535	6.36	13	PASS
16QAM	21400	2565	5.21	13	PASS
64QAM	20800	2505	6.17	13	PASS
64QAM	21100	2535	6.50	13	PASS
64QAM	21400	2565	5.77	13	PASS

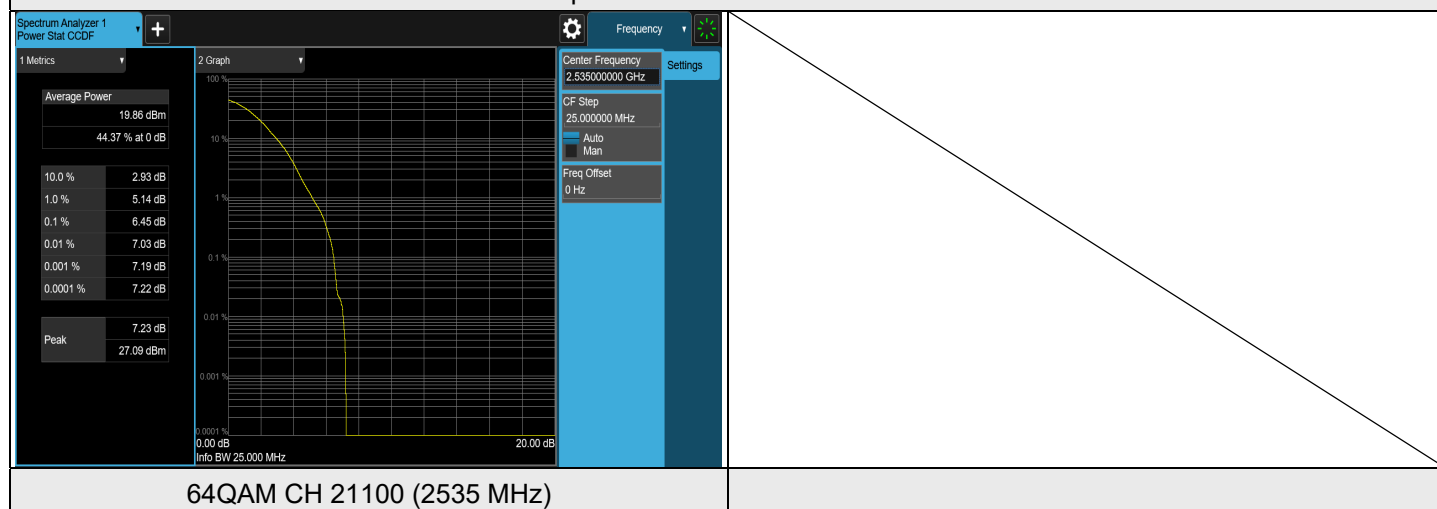
Spectrum Plot of Worst Value



LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20825	2507.5	4.58	13	PASS
QPSK	21100	2535	4.84	13	PASS
QPSK	21375	2562.5	3.76	13	PASS
16QAM	20825	2507.5	5.74	13	PASS
16QAM	21100	2535	5.93	13	PASS
16QAM	21375	2562.5	5.10	13	PASS
64QAM	20825	2507.5	6.06	13	PASS
64QAM	21100	2535	6.45	13	PASS
64QAM	21375	2562.5	5.62	13	PASS

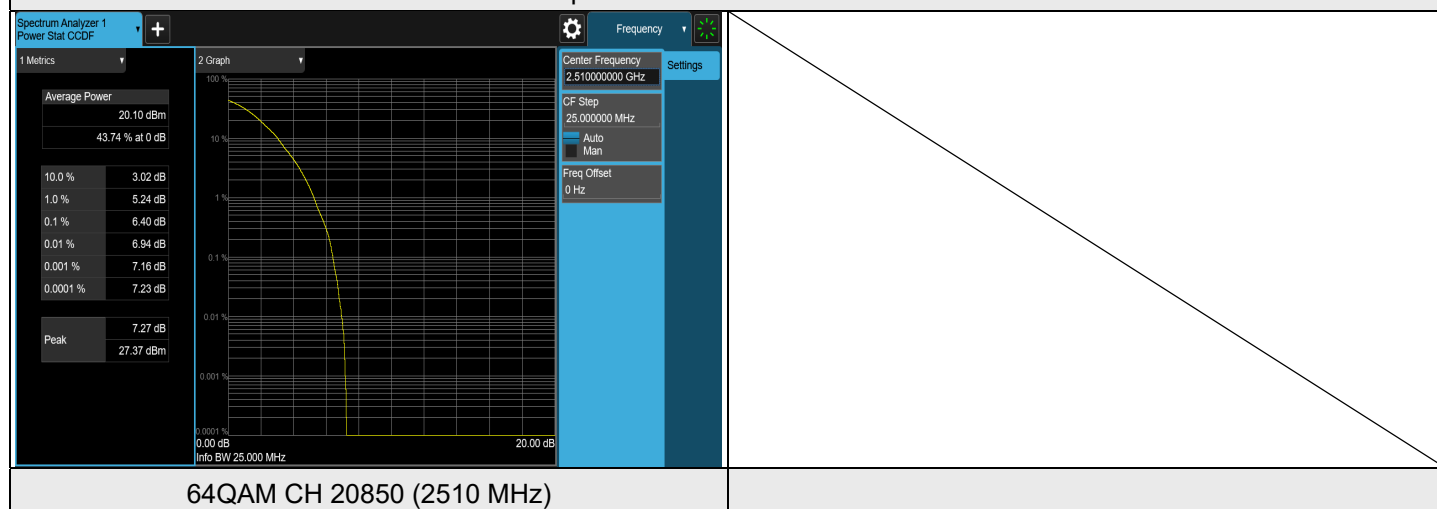
Spectrum Plot of Worst Value



LTE Band 7, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20850	2510	4.67	13	PASS
QPSK	21100	2535	4.69	13	PASS
QPSK	21350	2560	3.72	13	PASS
16QAM	20850	2510	5.76	13	PASS
16QAM	21100	2535	5.99	13	PASS
16QAM	21350	2560	5.19	13	PASS
64QAM	20850	2510	6.40	13	PASS
64QAM	21100	2535	6.37	13	PASS
64QAM	21350	2560	5.50	13	PASS

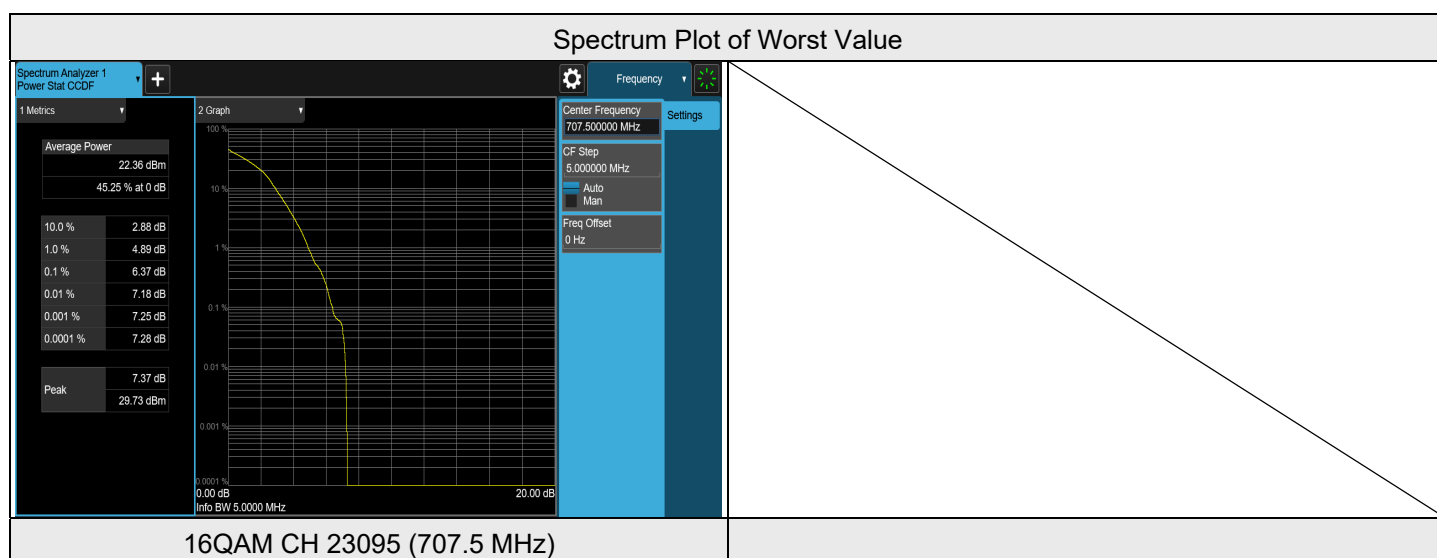
Spectrum Plot of Worst Value



7.3.5 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

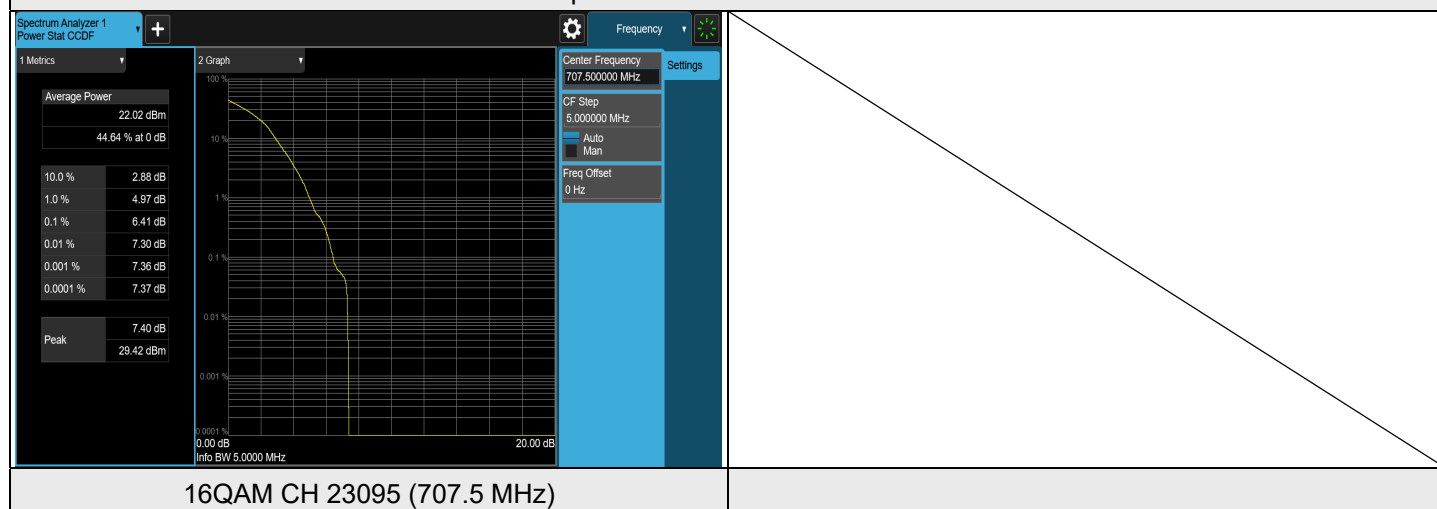
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23017	699.7	4.99	13	PASS
QPSK	23095	707.5	5.00	13	PASS
QPSK	23173	715.3	4.91	13	PASS
16QAM	23017	699.7	6.32	13	PASS
16QAM	23095	707.5	6.37	13	PASS
16QAM	23173	715.3	6.13	13	PASS
64QAM	23017	699.7	6.24	13	PASS
64QAM	23095	707.5	6.35	13	PASS
64QAM	23173	715.3	6.27	13	PASS



LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23025	700.5	4.78	13	PASS
QPSK	23095	707.5	4.97	13	PASS
QPSK	23165	714.5	5.09	13	PASS
16QAM	23025	700.5	6.30	13	PASS
16QAM	23095	707.5	6.41	13	PASS
16QAM	23165	714.5	6.28	13	PASS
64QAM	23025	700.5	6.35	13	PASS
64QAM	23095	707.5	6.30	13	PASS
64QAM	23165	714.5	6.30	13	PASS

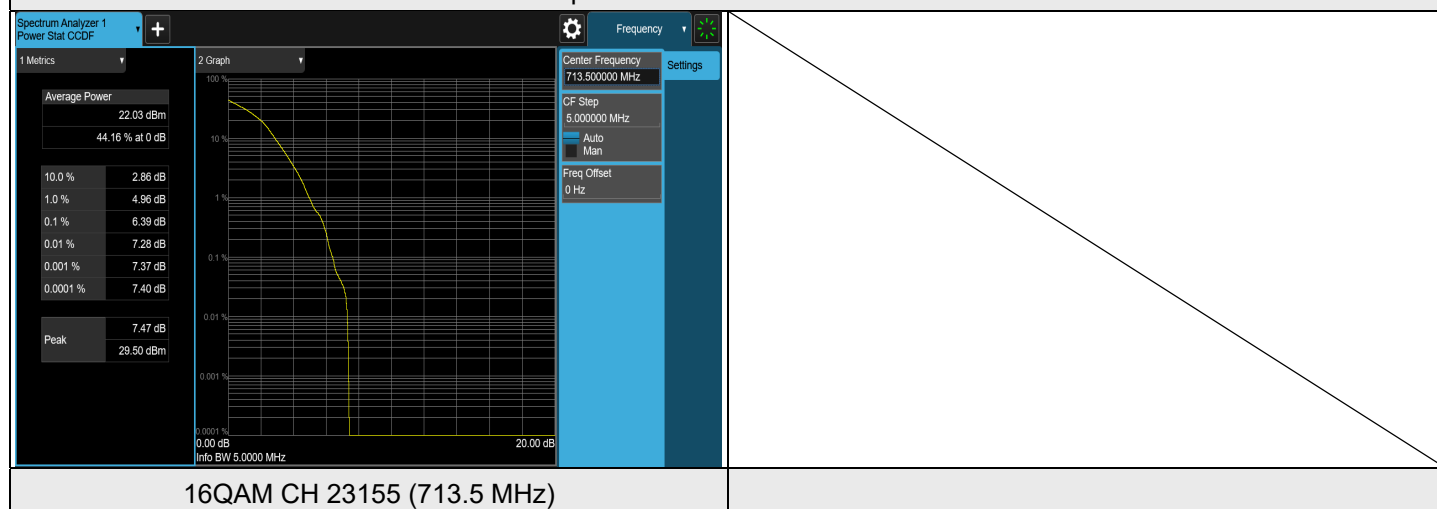
Spectrum Plot of Worst Value



LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23035	701.5	4.84	13	PASS
QPSK	23095	707.5	5.01	13	PASS
QPSK	23155	713.5	4.99	13	PASS
16QAM	23035	701.5	6.07	13	PASS
16QAM	23095	707.5	6.19	13	PASS
16QAM	23155	713.5	6.39	13	PASS
64QAM	23035	701.5	6.23	13	PASS
64QAM	23095	707.5	6.34	13	PASS
64QAM	23155	713.5	6.35	13	PASS

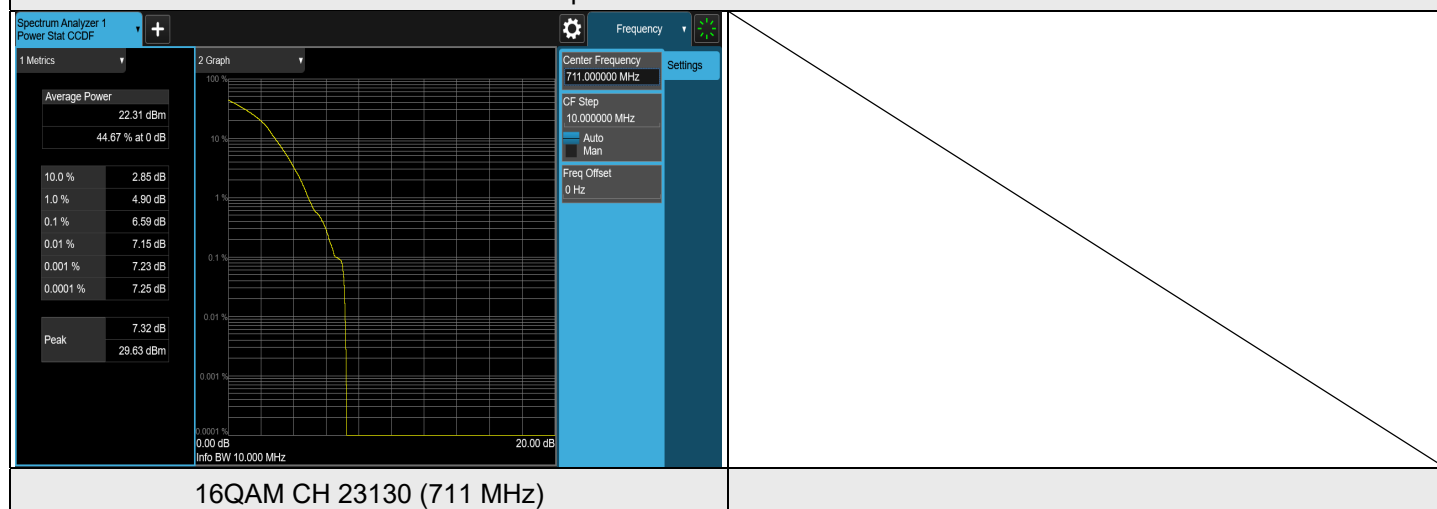
Spectrum Plot of Worst Value



LTE Band 12, Channel Bandwidth: 10 MHz

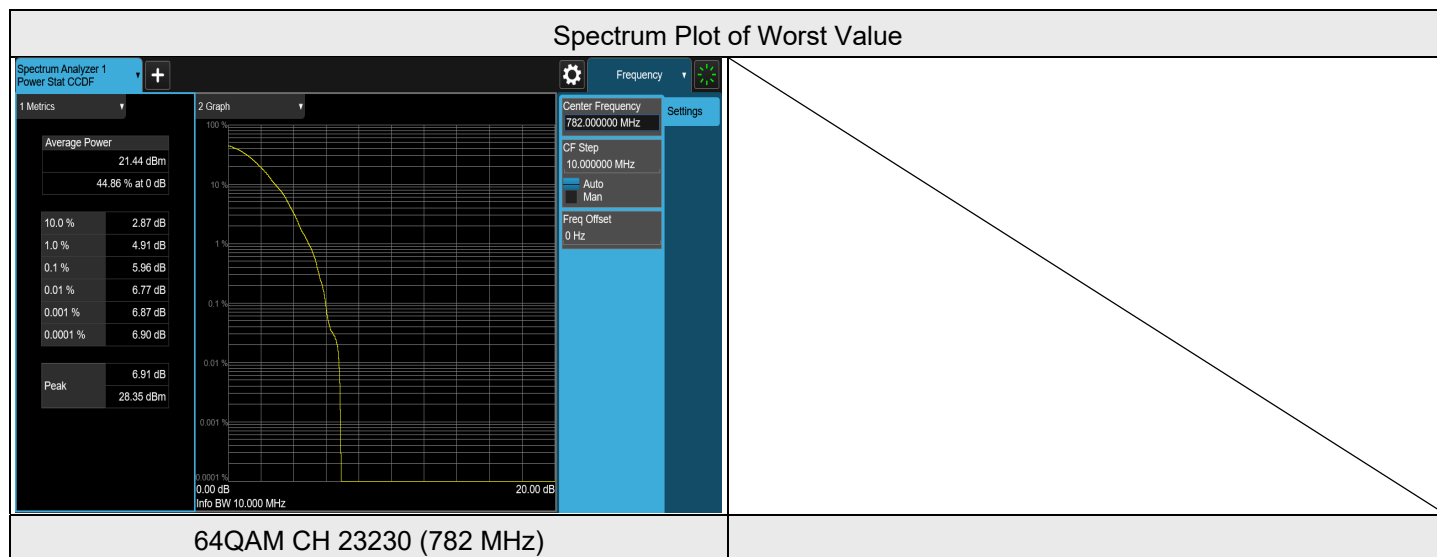
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23060	704	5.02	13	PASS
QPSK	23095	707.5	5.02	13	PASS
QPSK	23130	711	5.10	13	PASS
16QAM	23060	704	6.53	13	PASS
16QAM	23095	707.5	6.28	13	PASS
16QAM	23130	711	6.58	13	PASS
64QAM	23060	704	6.20	13	PASS
64QAM	23095	707.5	6.31	13	PASS
64QAM	23130	711	6.33	13	PASS

Spectrum Plot of Worst Value



LTE Band 13, Channel Bandwidth: 10 MHz

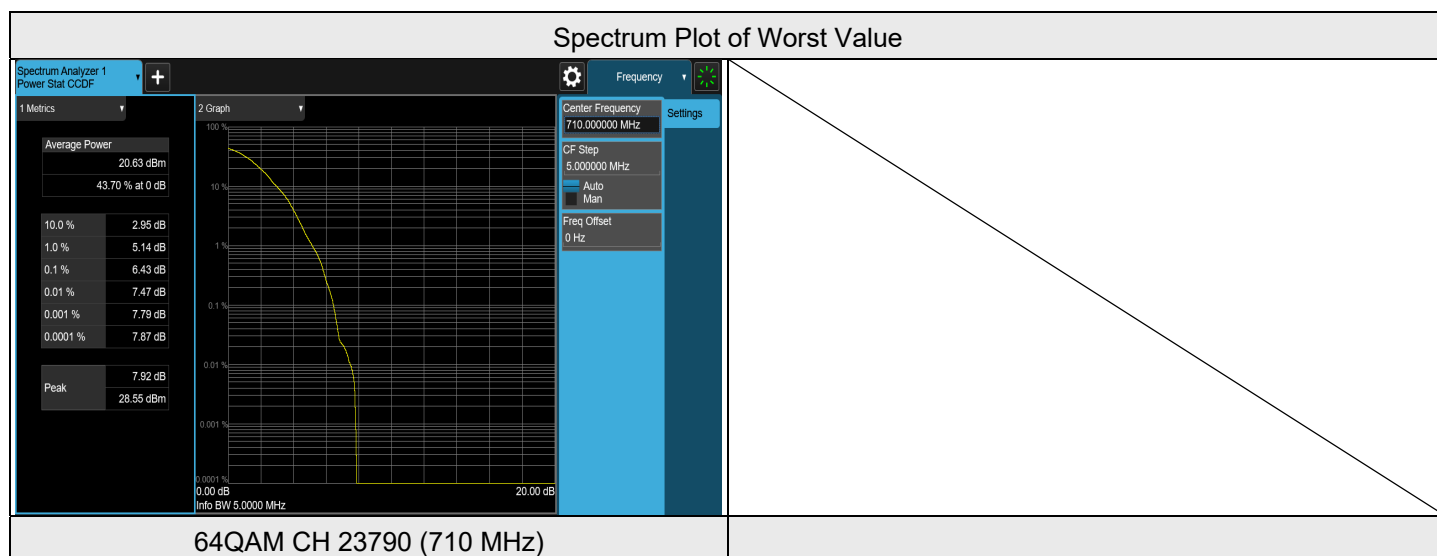
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23230	782	4.48	13	PASS
16QAM	23230	782	5.69	13	PASS
64QAM	23230	782	5.96	13	PASS



7.3.7 LTE Band 17

LTE Band 17, Channel Bandwidth: 5 MHz

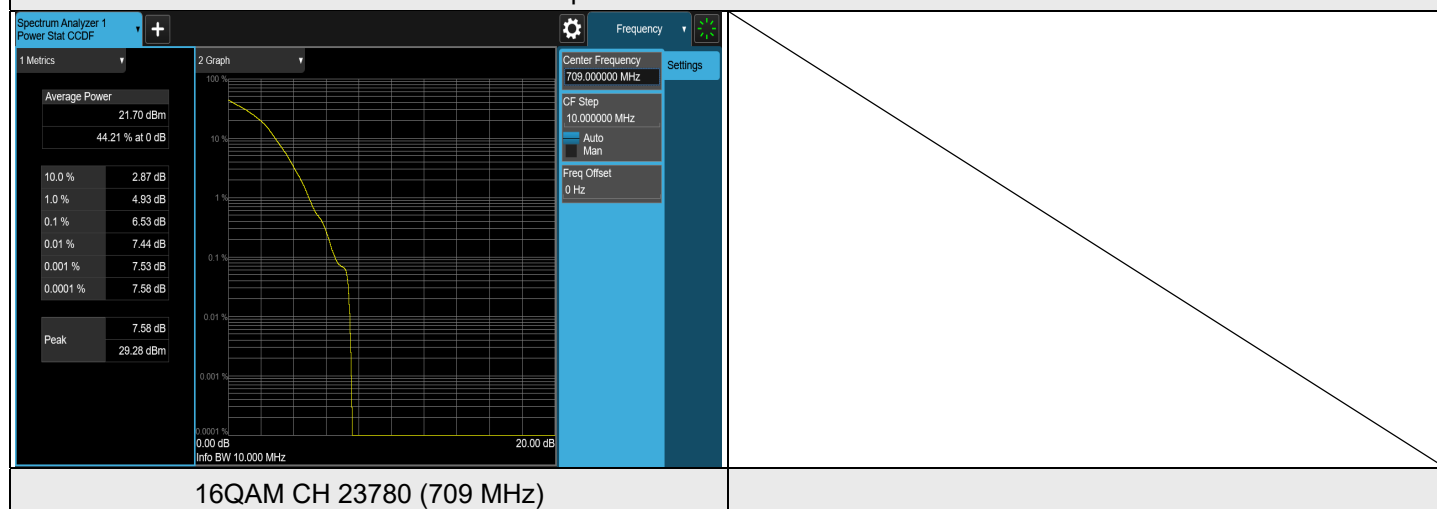
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23755	706.5	5.17	13	PASS
QPSK	23790	710	5.09	13	PASS
QPSK	23825	713.5	5.14	13	PASS
16QAM	23755	706.5	6.15	13	PASS
16QAM	23790	710	6.29	13	PASS
16QAM	23825	713.5	6.28	13	PASS
64QAM	23755	706.5	6.34	13	PASS
64QAM	23790	710	6.43	13	PASS
64QAM	23825	713.5	6.34	13	PASS



LTE Band 17, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23780	709	5.20	13	PASS
QPSK	23790	710	5.18	13	PASS
QPSK	23800	711	5.26	13	PASS
16QAM	23780	709	6.53	13	PASS
16QAM	23790	710	6.48	13	PASS
16QAM	23800	711	6.50	13	PASS
64QAM	23780	709	6.27	13	PASS
64QAM	23790	710	6.30	13	PASS
64QAM	23800	711	6.39	13	PASS

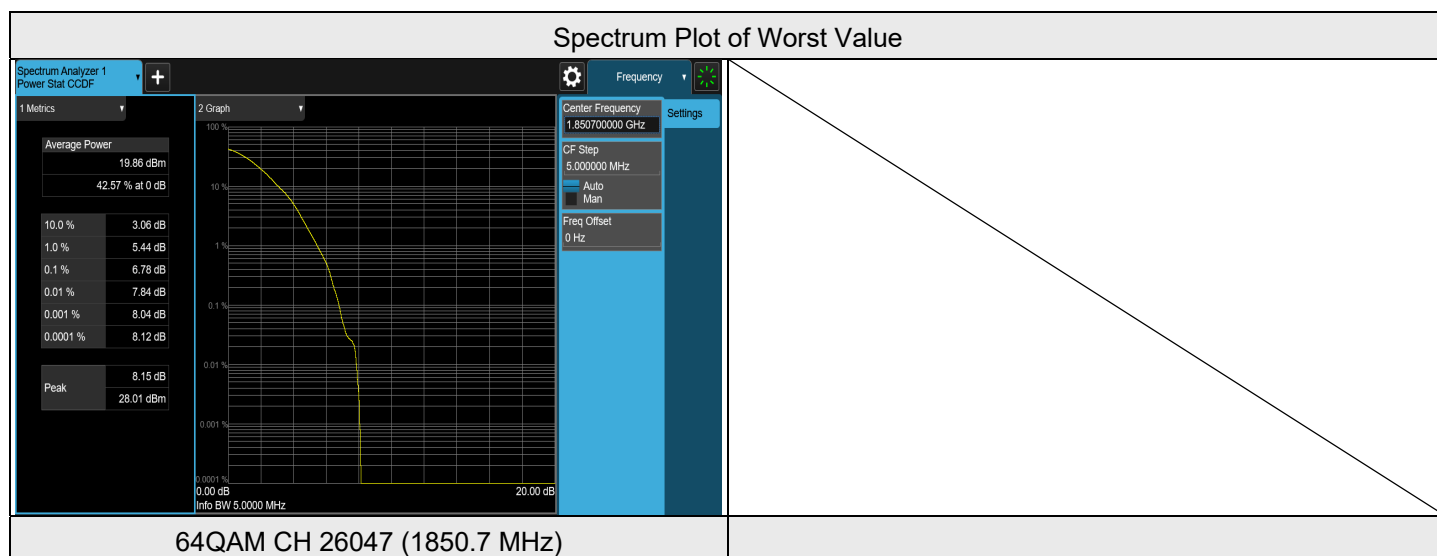
Spectrum Plot of Worst Value



7.3.8 LTE Band 25

LTE Band 25, Channel Bandwidth: 1.4 MHz

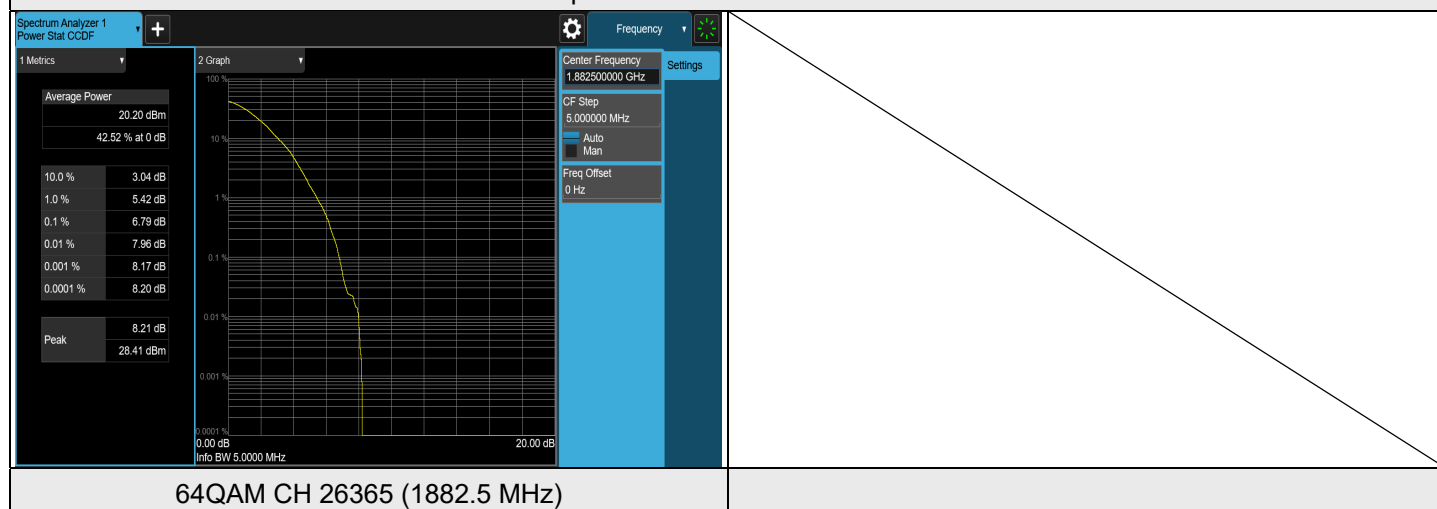
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26047	1850.7	5.67	13	PASS
QPSK	26365	1882.5	5.45	13	PASS
QPSK	26683	1914.3	5.06	13	PASS
16QAM	26047	1850.7	6.50	13	PASS
16QAM	26365	1882.5	6.77	13	PASS
16QAM	26683	1914.3	6.53	13	PASS
64QAM	26047	1850.7	6.78	13	PASS
64QAM	26365	1882.5	6.76	13	PASS
64QAM	26683	1914.3	6.67	13	PASS



LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26055	1851.5	5.38	13	PASS
QPSK	26365	1882.5	5.50	13	PASS
QPSK	26675	1913.5	5.25	13	PASS
16QAM	26055	1851.5	6.61	13	PASS
16QAM	26365	1882.5	6.71	13	PASS
16QAM	26675	1913.5	6.40	13	PASS
64QAM	26055	1851.5	6.71	13	PASS
64QAM	26365	1882.5	6.79	13	PASS
64QAM	26675	1913.5	6.65	13	PASS

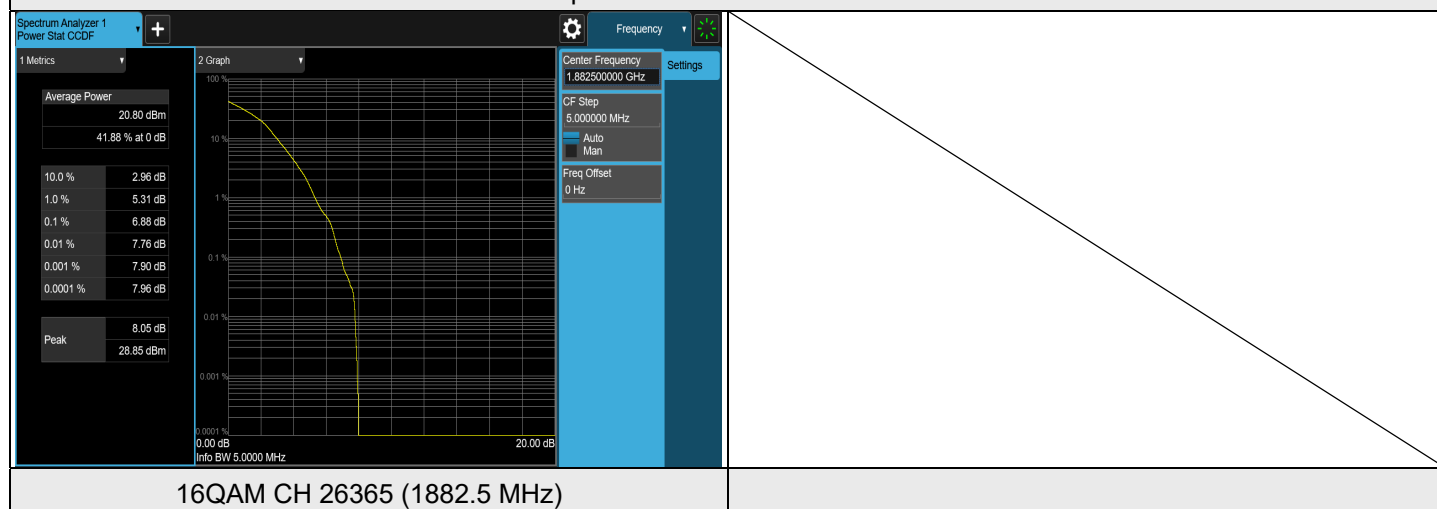
Spectrum Plot of Worst Value



LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26065	1852.5	5.37	13	PASS
QPSK	26365	1882.5	5.54	13	PASS
QPSK	26665	1912.5	5.35	13	PASS
16QAM	26065	1852.5	6.67	13	PASS
16QAM	26365	1882.5	6.88	13	PASS
16QAM	26665	1912.5	6.46	13	PASS
64QAM	26065	1852.5	6.79	13	PASS
64QAM	26365	1882.5	6.81	13	PASS
64QAM	26665	1912.5	6.70	13	PASS

Spectrum Plot of Worst Value

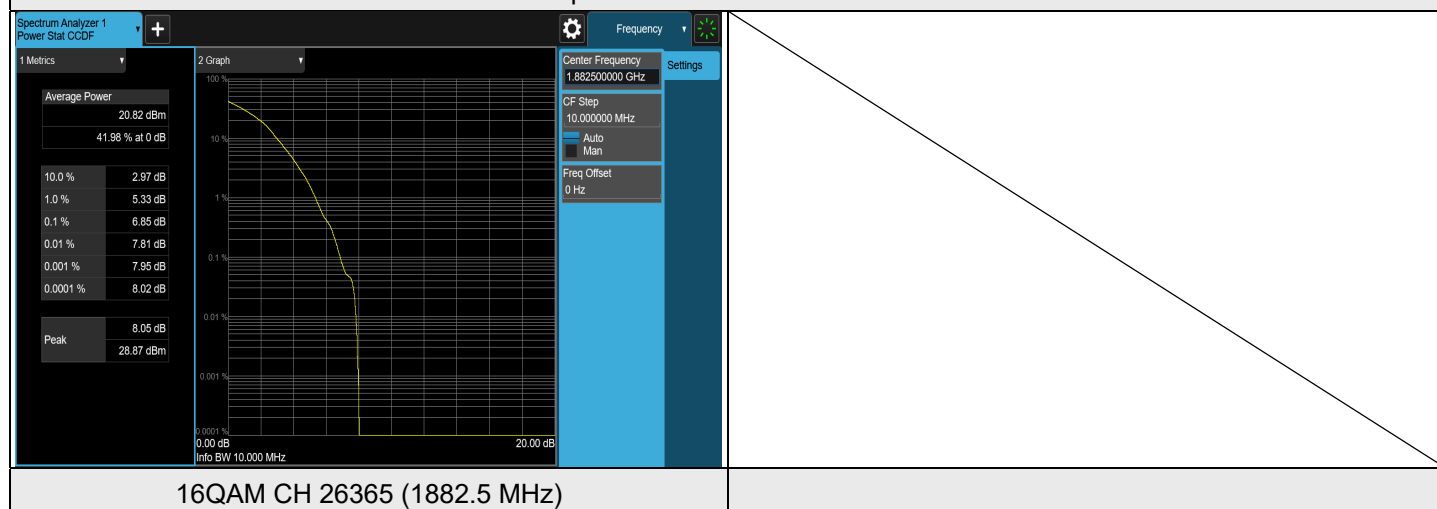


16QAM CH 26365 (1882.5 MHz)

LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26090	1855	5.39	13	PASS
QPSK	26365	1882.5	5.65	13	PASS
QPSK	26640	1910	5.57	13	PASS
16QAM	26090	1855	6.67	13	PASS
16QAM	26365	1882.5	6.85	13	PASS
16QAM	26640	1910	6.79	13	PASS
64QAM	26090	1855	6.77	13	PASS
64QAM	26365	1882.5	6.82	13	PASS
64QAM	26640	1910	6.70	13	PASS

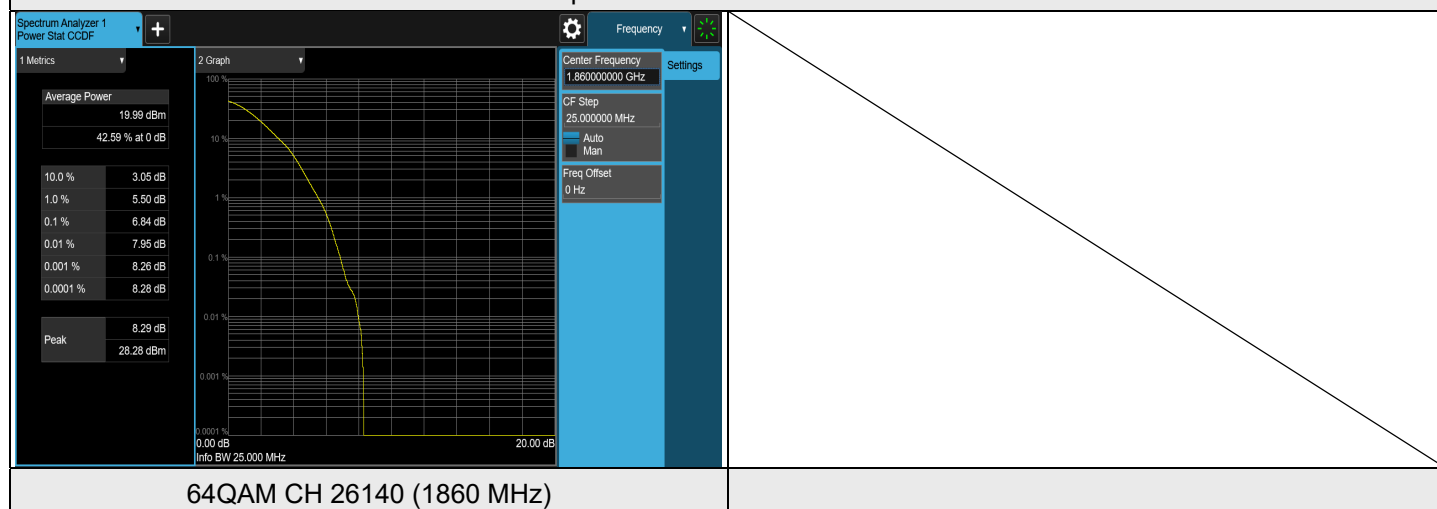
Spectrum Plot of Worst Value



LTE Band 25, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26140	1860	5.41	13	PASS
QPSK	26365	1882.5	5.63	13	PASS
QPSK	26590	1905	5.66	13	PASS
16QAM	26140	1860	6.74	13	PASS
16QAM	26365	1882.5	6.77	13	PASS
16QAM	26590	1905	6.68	13	PASS
64QAM	26140	1860	6.84	13	PASS
64QAM	26365	1882.5	6.83	13	PASS
64QAM	26590	1905	6.84	13	PASS

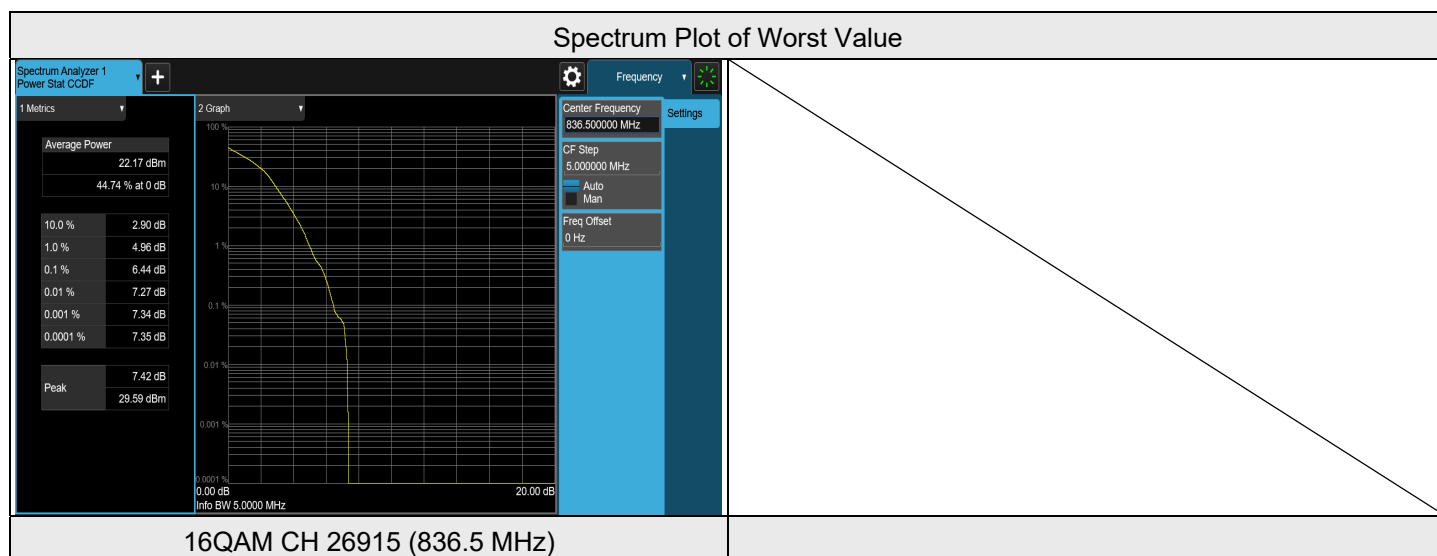
Spectrum Plot of Worst Value



7.3.9 LTE Band 26 (824 MHz ~ 849 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

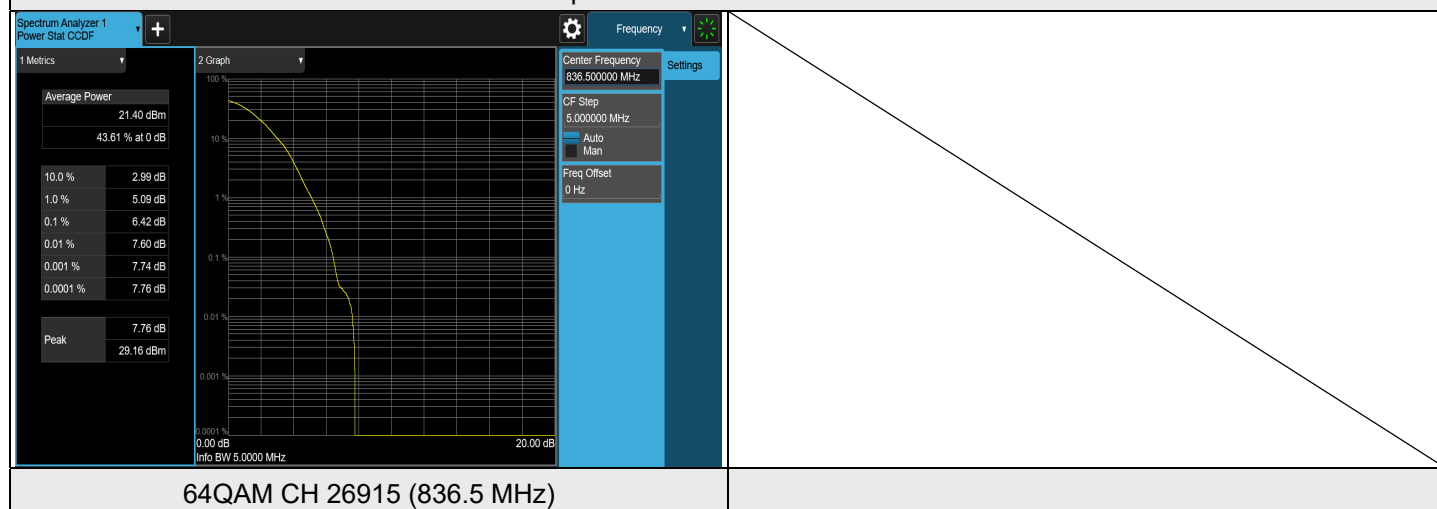
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26797	824.7	5.00	13	PASS
QPSK	26915	836.5	5.03	13	PASS
QPSK	27033	848.3	4.93	13	PASS
16QAM	26797	824.7	6.16	13	PASS
16QAM	26915	836.5	6.44	13	PASS
16QAM	27033	848.3	6.23	13	PASS
64QAM	26797	824.7	6.30	13	PASS
64QAM	26915	836.5	6.30	13	PASS
64QAM	27033	848.3	6.20	13	PASS



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26805	825.5	4.90	13	PASS
QPSK	26915	836.5	5.01	13	PASS
QPSK	27025	847.5	5.03	13	PASS
16QAM	26805	825.5	6.27	13	PASS
16QAM	26915	836.5	6.36	13	PASS
16QAM	27025	847.5	6.27	13	PASS
64QAM	26805	825.5	6.31	13	PASS
64QAM	26915	836.5	6.42	13	PASS
64QAM	27025	847.5	6.22	13	PASS

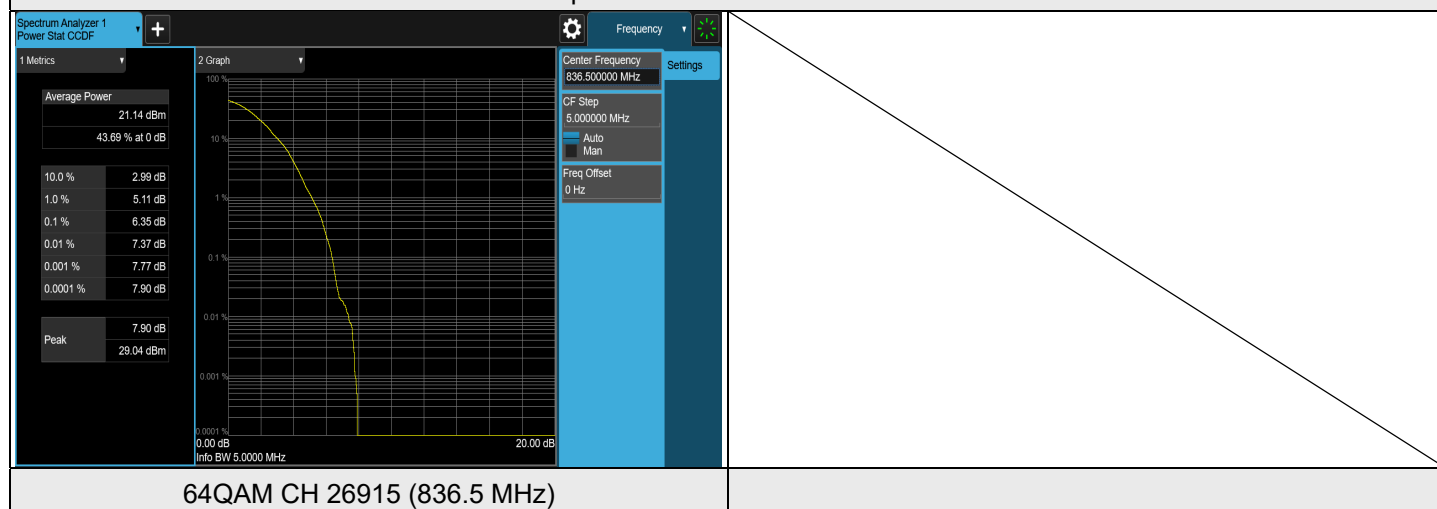
Spectrum Plot of Worst Value



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26815	826.5	4.88	13	PASS
QPSK	26915	836.5	5.01	13	PASS
QPSK	27015	846.5	4.87	13	PASS
16QAM	26815	826.5	6.20	13	PASS
16QAM	26915	836.5	6.33	13	PASS
16QAM	27015	846.5	6.00	13	PASS
64QAM	26815	826.5	6.32	13	PASS
64QAM	26915	836.5	6.35	13	PASS
64QAM	27015	846.5	6.25	13	PASS

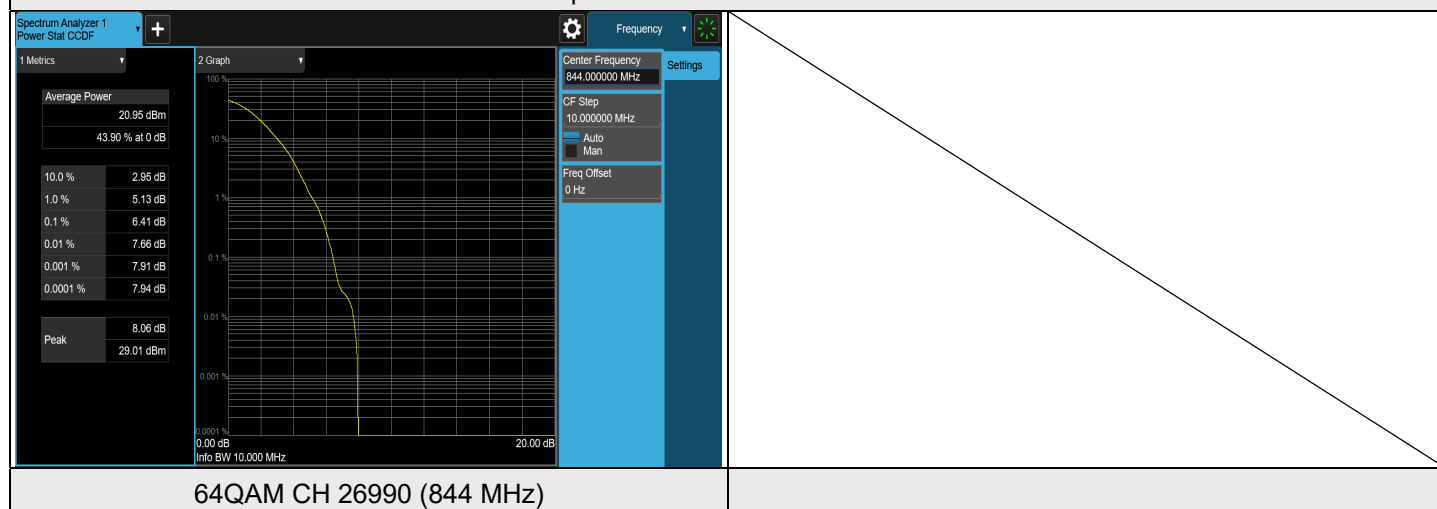
Spectrum Plot of Worst Value



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26840	829	4.93	13	PASS
QPSK	26915	836.5	4.95	13	PASS
QPSK	26990	844	5.10	13	PASS
16QAM	26840	829	6.22	13	PASS
16QAM	26915	836.5	6.38	13	PASS
16QAM	26990	844	6.35	13	PASS
64QAM	26840	829	6.31	13	PASS
64QAM	26915	836.5	6.29	13	PASS
64QAM	26990	844	6.41	13	PASS

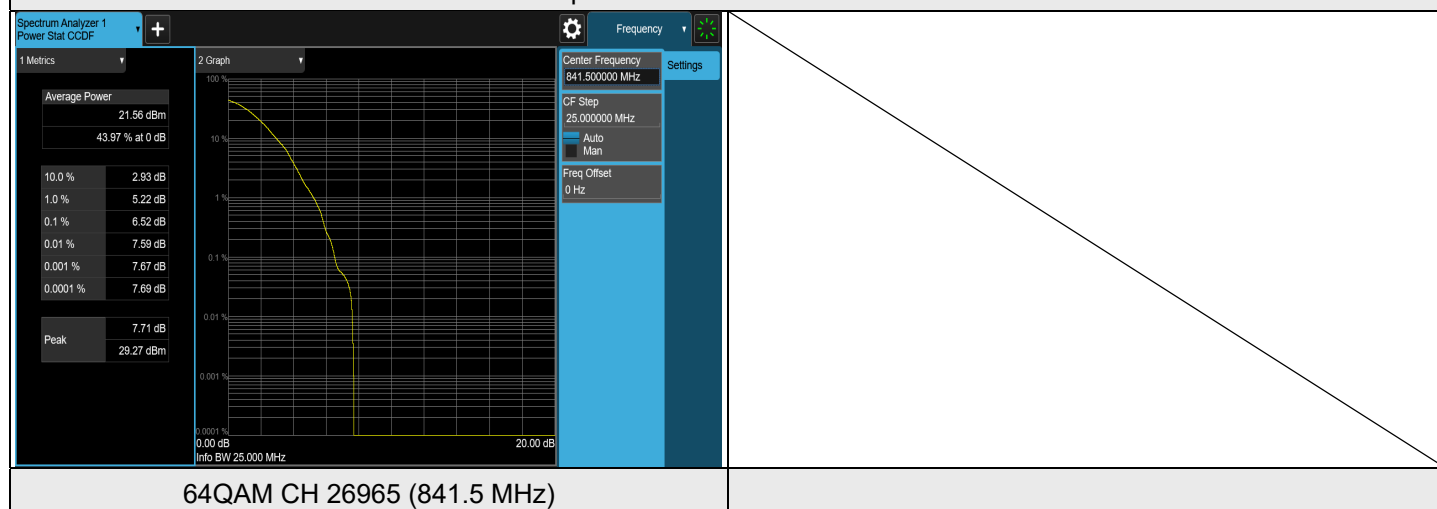
Spectrum Plot of Worst Value



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26865	831.5	4.89	13	PASS
QPSK	26915	836.5	4.88	13	PASS
QPSK	26965	841.5	5.10	13	PASS
16QAM	26865	831.5	6.43	13	PASS
16QAM	26915	836.5	6.32	13	PASS
16QAM	26965	841.5	6.41	13	PASS
64QAM	26865	831.5	6.17	13	PASS
64QAM	26915	836.5	6.32	13	PASS
64QAM	26965	841.5	6.52	13	PASS

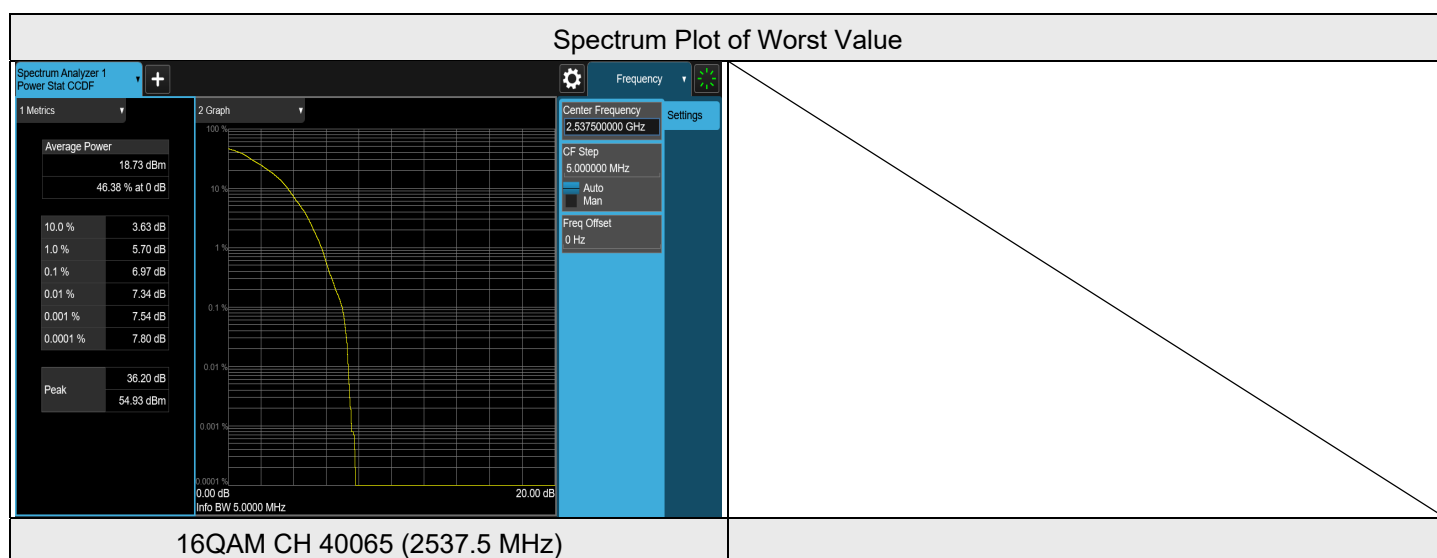
Spectrum Plot of Worst Value



7.3.10LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

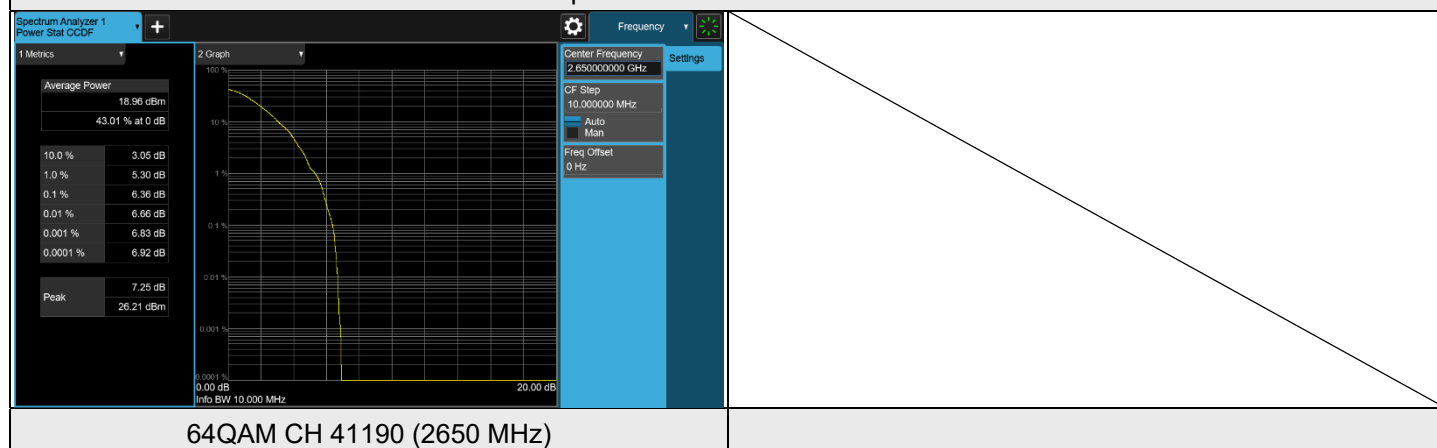
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	40065	2537.5	6.06	13	PASS
QPSK	40640	2595	5.32	13	PASS
QPSK	41215	2652.5	5.84	13	PASS
16QAM	40065	2537.5	6.97	13	PASS
16QAM	40640	2595	5.97	13	PASS
16QAM	41215	2652.5	6.64	13	PASS
64QAM	40065	2537.5	6.74	13	PASS
64QAM	40640	2595	6.43	13	PASS
64QAM	41215	2652.5	6.79	13	PASS



LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	40090	2540	5.26	13	PASS
QPSK	40640	2595	4.21	13	PASS
QPSK	41190	2650	4.88	13	PASS
16QAM	40090	2540	5.96	13	PASS
16QAM	40640	2595	5.02	13	PASS
16QAM	41190	2650	5.68	13	PASS
64QAM	40090	2540	6.17	13	PASS
64QAM	40640	2595	5.91	13	PASS
64QAM	41190	2650	6.36	13	PASS

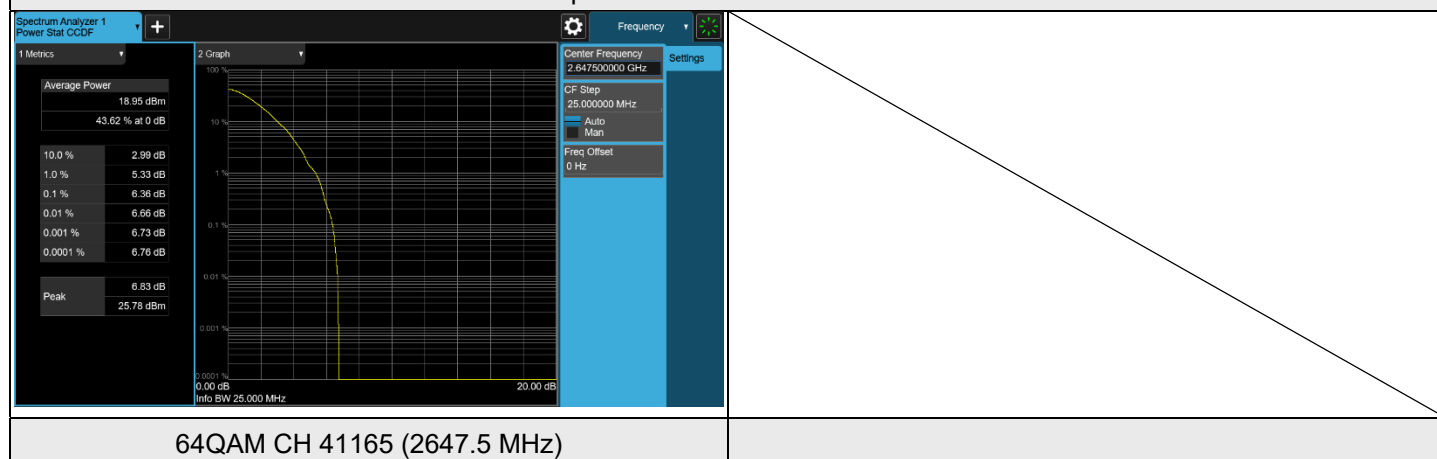
Spectrum Plot of Worst Value



LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	40115	2542.5	5.19	13	PASS
QPSK	40640	2595	4.31	13	PASS
QPSK	41165	2647.5	5.03	13	PASS
16QAM	40115	2542.5	5.83	13	PASS
16QAM	40640	2595	5.11	13	PASS
16QAM	41165	2647.5	5.98	13	PASS
64QAM	40115	2542.5	6.09	13	PASS
64QAM	40640	2595	5.96	13	PASS
64QAM	41165	2647.5	6.36	13	PASS

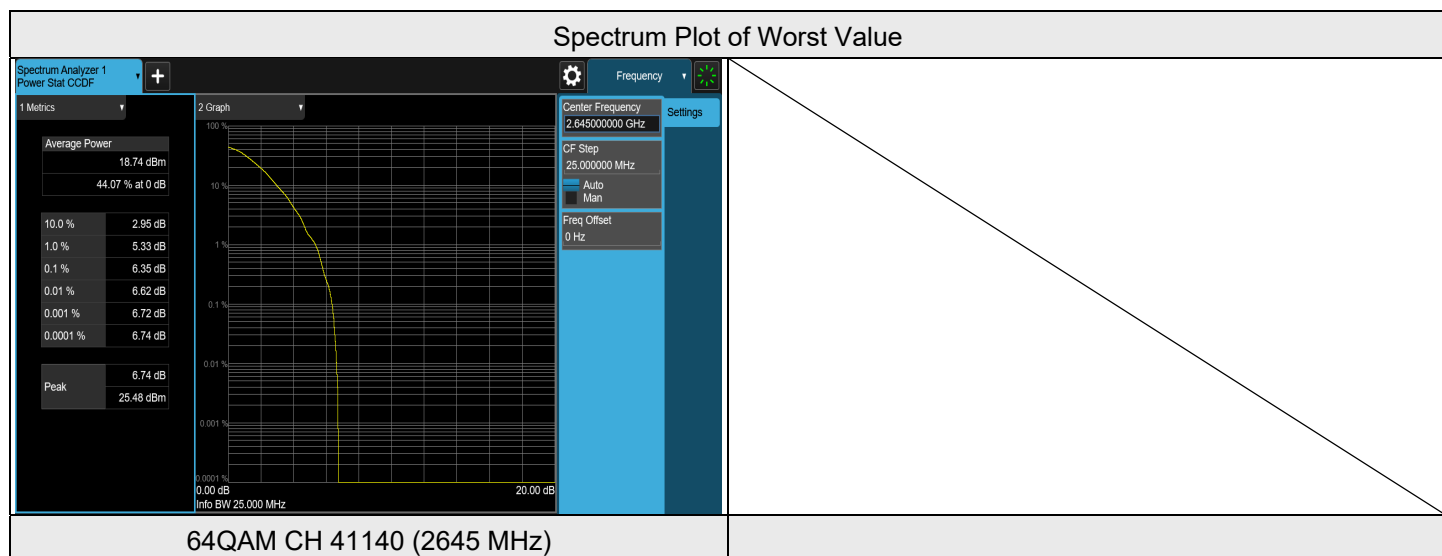
Spectrum Plot of Worst Value



64QAM CH 41165 (2647.5 MHz)

LTE Band 41, Channel Bandwidth: 20 MHz

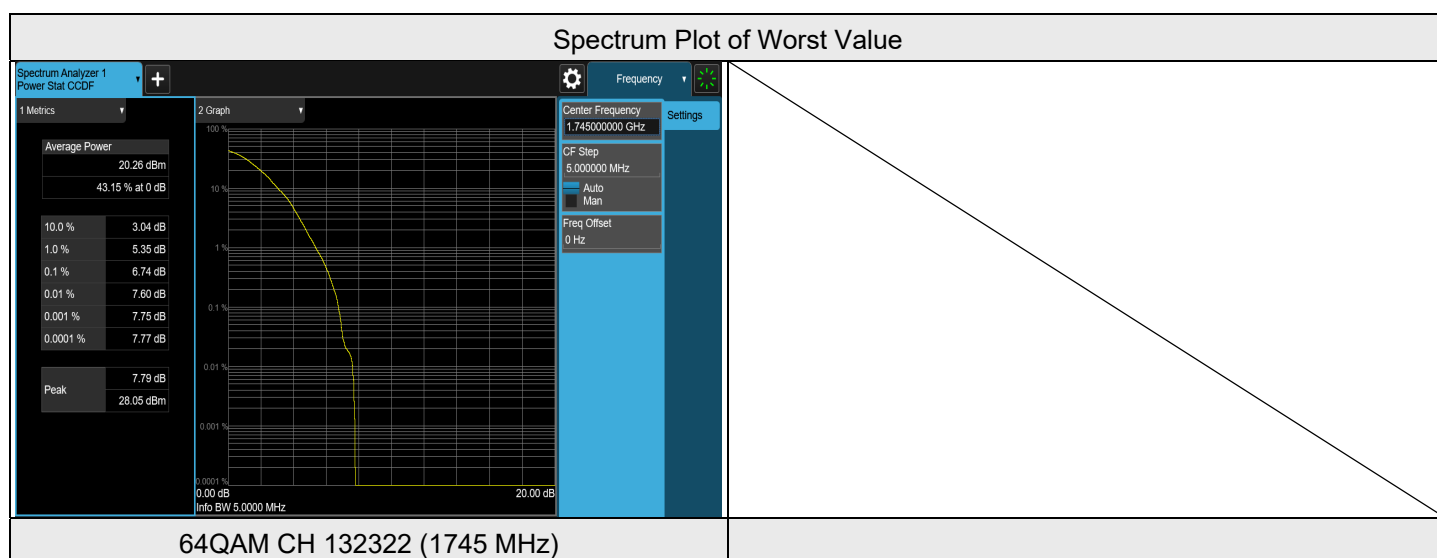
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	40140	2545	5.09	13	PASS
QPSK	40640	2595	4.42	13	PASS
QPSK	41140	2645	5.11	13	PASS
16QAM	40140	2545	5.86	13	PASS
16QAM	40640	2595	5.23	13	PASS
16QAM	41140	2645	5.76	13	PASS
64QAM	40140	2545	6.09	13	PASS
64QAM	40640	2595	5.99	13	PASS
64QAM	41140	2645	6.35	13	PASS



7.3.11 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

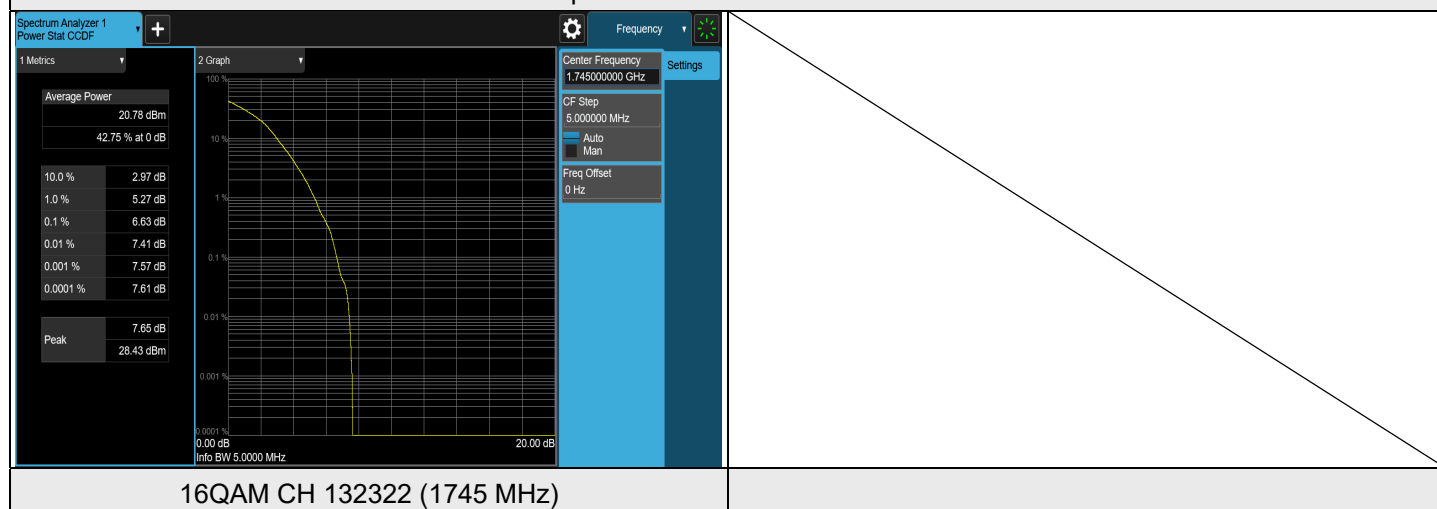
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131979	1710.7	4.93	13	PASS
QPSK	132322	1745	5.23	13	PASS
QPSK	132665	1779.3	3.96	13	PASS
16QAM	131979	1710.7	5.98	13	PASS
16QAM	132322	1745	6.72	13	PASS
16QAM	132665	1779.3	5.16	13	PASS
64QAM	131979	1710.7	6.57	13	PASS
64QAM	132322	1745	6.74	13	PASS
64QAM	132665	1779.3	5.75	13	PASS



LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131987	1711.5	4.82	13	PASS
QPSK	132322	1745	5.39	13	PASS
QPSK	132657	1778.5	3.99	13	PASS
16QAM	131987	1711.5	6.03	13	PASS
16QAM	132322	1745	6.63	13	PASS
16QAM	132657	1778.5	5.39	13	PASS
64QAM	131987	1711.5	6.52	13	PASS
64QAM	132322	1745	6.63	13	PASS
64QAM	132657	1778.5	5.61	13	PASS

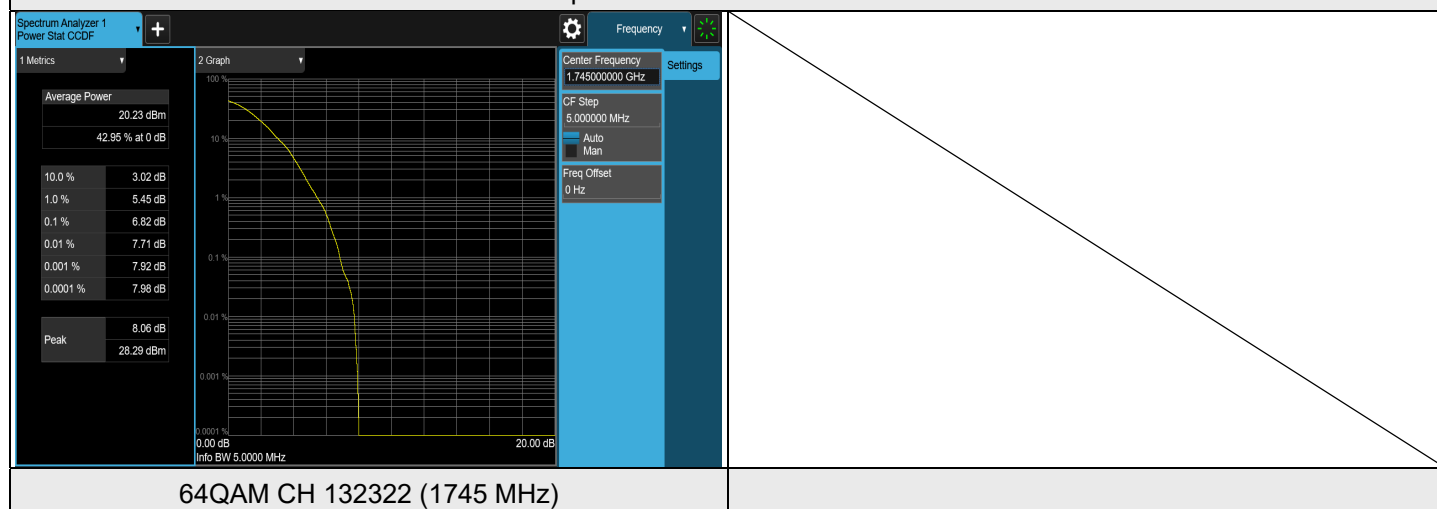
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131997	1712.5	4.93	13	PASS
QPSK	132322	1745	5.30	13	PASS
QPSK	132647	1777.5	4.20	13	PASS
16QAM	131997	1712.5	6.00	13	PASS
16QAM	132322	1745	6.55	13	PASS
16QAM	132647	1777.5	5.35	13	PASS
64QAM	131997	1712.5	6.67	13	PASS
64QAM	132322	1745	6.82	13	PASS
64QAM	132647	1777.5	5.66	13	PASS

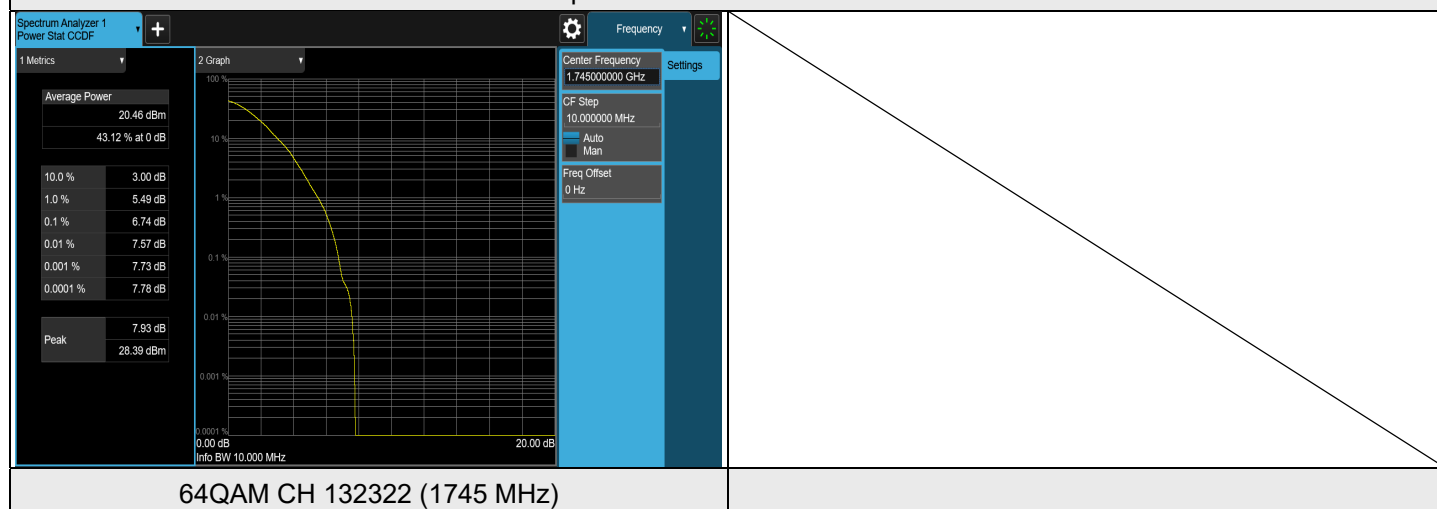
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 10 MHz

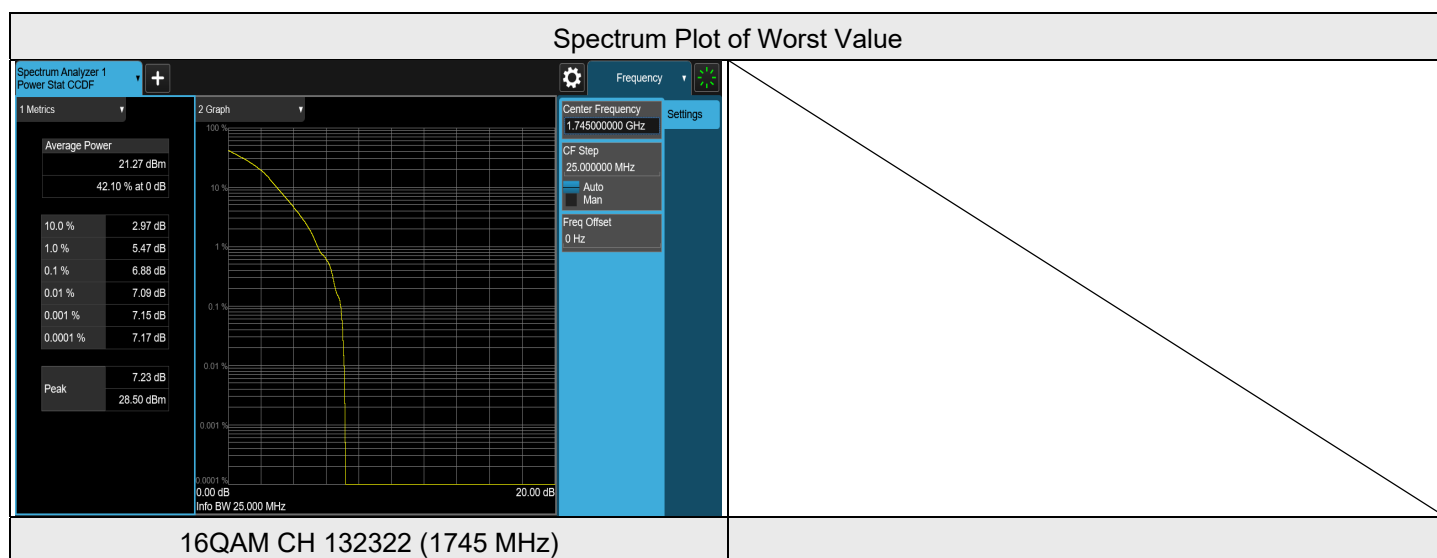
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132022	1715	4.97	13	PASS
QPSK	132322	1745	5.27	13	PASS
QPSK	132622	1775	4.02	13	PASS
16QAM	132022	1715	6.33	13	PASS
16QAM	132322	1745	6.56	13	PASS
16QAM	132622	1775	5.10	13	PASS
64QAM	132022	1715	6.52	13	PASS
64QAM	132322	1745	6.74	13	PASS
64QAM	132622	1775	5.44	13	PASS

Spectrum Plot of Worst Value



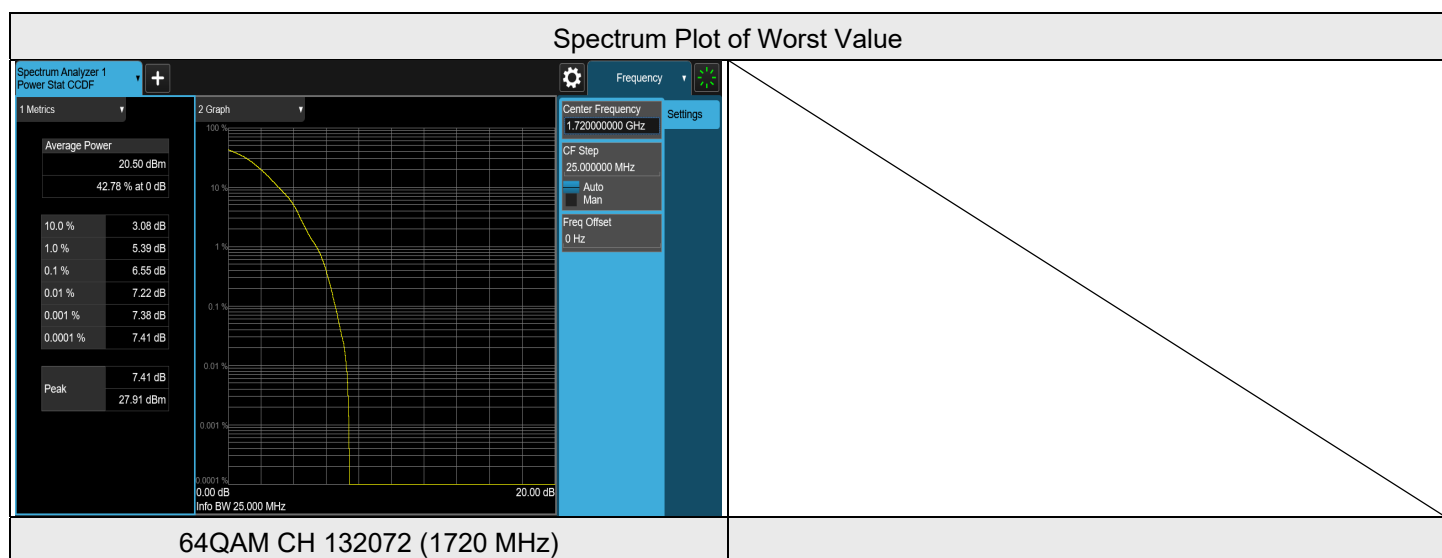
LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132047	1717.5	4.95	13	PASS
QPSK	132322	1745	5.24	13	PASS
QPSK	132597	1772.5	3.61	13	PASS
16QAM	132047	1717.5	5.69	13	PASS
16QAM	132322	1745	6.88	13	PASS
16QAM	132597	1772.5	4.92	13	PASS
64QAM	132047	1717.5	6.29	13	PASS
64QAM	132322	1745	6.38	13	PASS
64QAM	132597	1772.5	5.74	13	PASS



LTE Band 66, Channel Bandwidth: 20 MHz

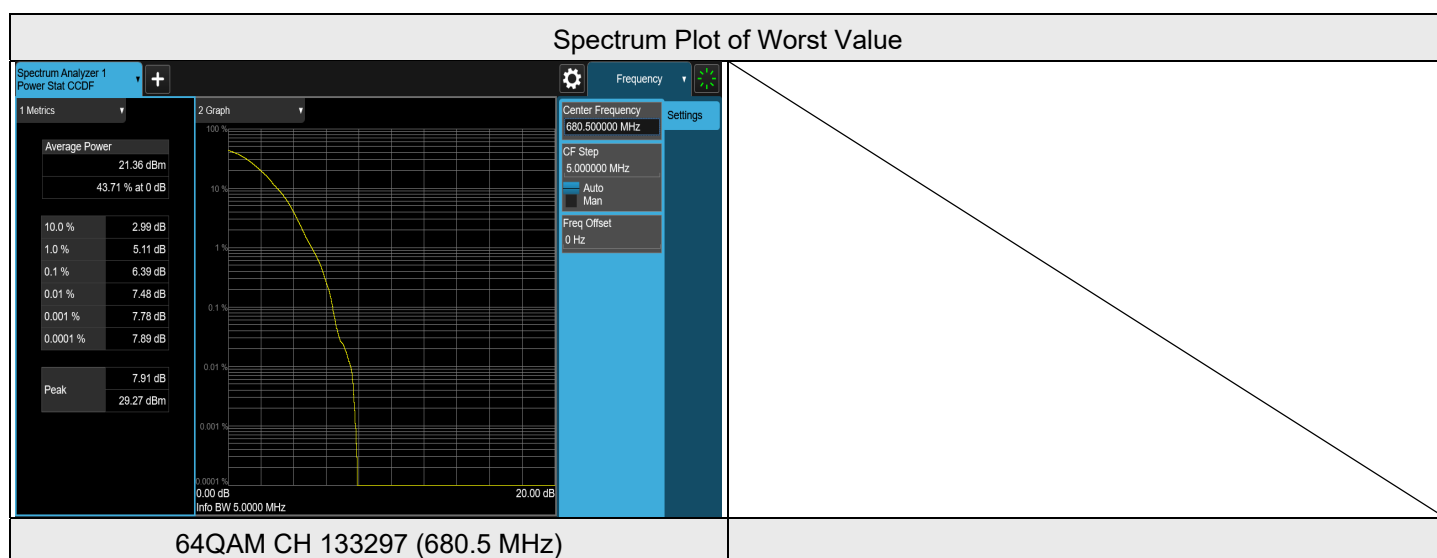
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132072	1720	5.15	13	PASS
QPSK	132322	1745	5.12	13	PASS
QPSK	132572	1770	3.42	13	PASS
16QAM	132072	1720	6.43	13	PASS
16QAM	132322	1745	6.43	13	PASS
16QAM	132572	1770	4.55	13	PASS
64QAM	132072	1720	6.55	13	PASS
64QAM	132322	1745	6.50	13	PASS
64QAM	132572	1770	6.43	13	PASS



7.3.12LTE Band 71

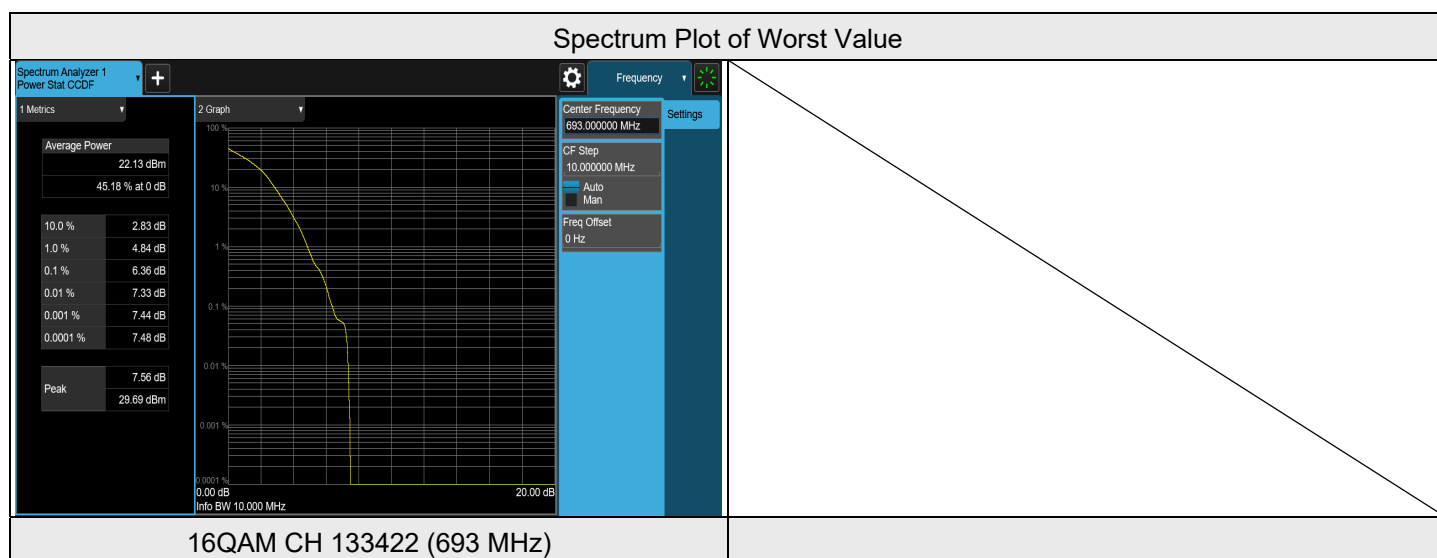
LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133147	665.5	4.82	13	PASS
QPSK	133297	680.5	5.07	13	PASS
QPSK	133447	695.5	5.14	13	PASS
16QAM	133147	665.5	5.93	13	PASS
16QAM	133297	680.5	6.24	13	PASS
16QAM	133447	695.5	6.36	13	PASS
64QAM	133147	665.5	6.03	13	PASS
64QAM	133297	680.5	6.39	13	PASS
64QAM	133447	695.5	6.36	13	PASS



LTE Band 71, Channel Bandwidth: 10 MHz

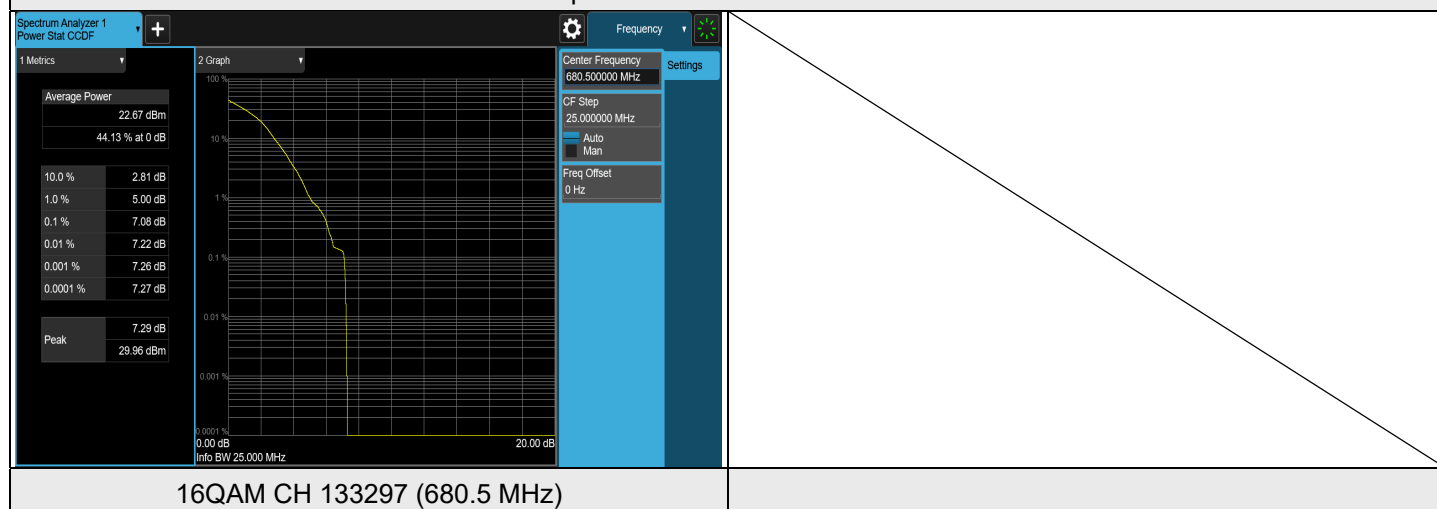
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133172	668	4.88	13	PASS
QPSK	133297	680.5	5.16	13	PASS
QPSK	133422	693	5.04	13	PASS
16QAM	133172	668	6.11	13	PASS
16QAM	133297	680.5	6.17	13	PASS
16QAM	133422	693	6.36	13	PASS
64QAM	133172	668	6.09	13	PASS
64QAM	133297	680.5	6.30	13	PASS
64QAM	133422	693	6.24	13	PASS



LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133197	670.5	4.82	13	PASS
QPSK	133297	680.5	4.95	13	PASS
QPSK	133397	690.5	5.10	13	PASS
16QAM	133197	670.5	6.17	13	PASS
16QAM	133297	680.5	7.08	13	PASS
16QAM	133397	690.5	6.50	13	PASS
64QAM	133197	670.5	5.98	13	PASS
64QAM	133297	680.5	6.18	13	PASS
64QAM	133397	690.5	6.28	13	PASS

Spectrum Plot of Worst Value

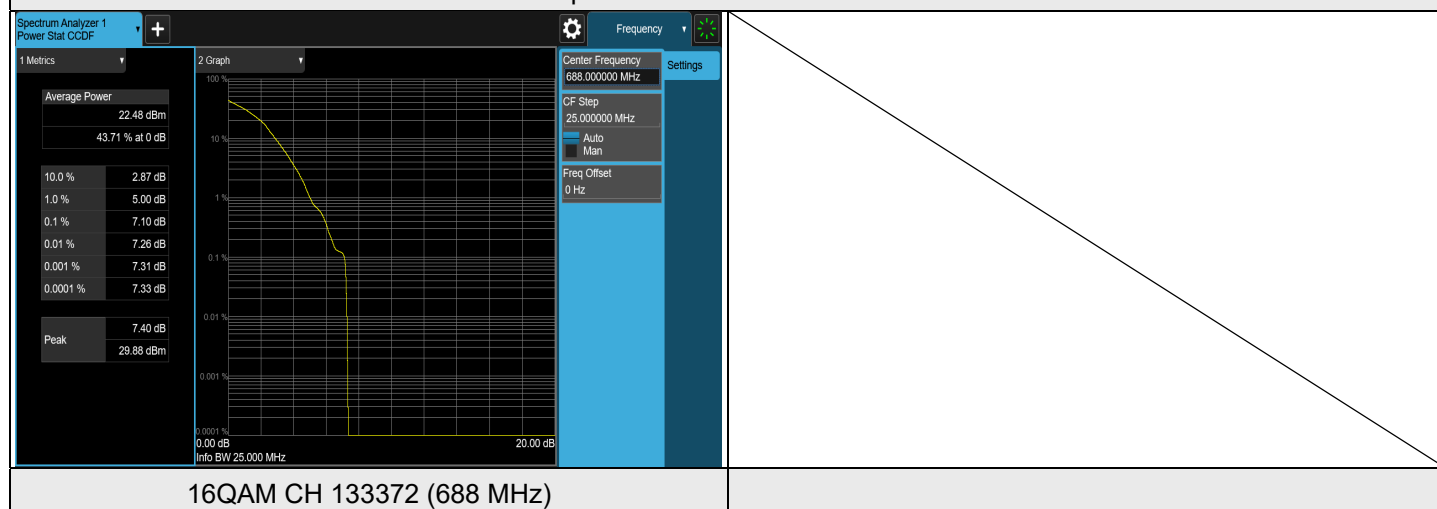


16QAM CH 133297 (680.5 MHz)

LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133222	673	4.82	13	PASS
QPSK	133297	680.5	4.89	13	PASS
QPSK	133372	688	5.06	13	PASS
16QAM	133222	673	5.78	13	PASS
16QAM	133297	680.5	5.92	13	PASS
16QAM	133372	688	7.10	13	PASS
64QAM	133222	673	6.34	13	PASS
64QAM	133297	680.5	6.11	13	PASS
64QAM	133372	688	6.42	13	PASS

Spectrum Plot of Worst Value



7.4 Bandwidth

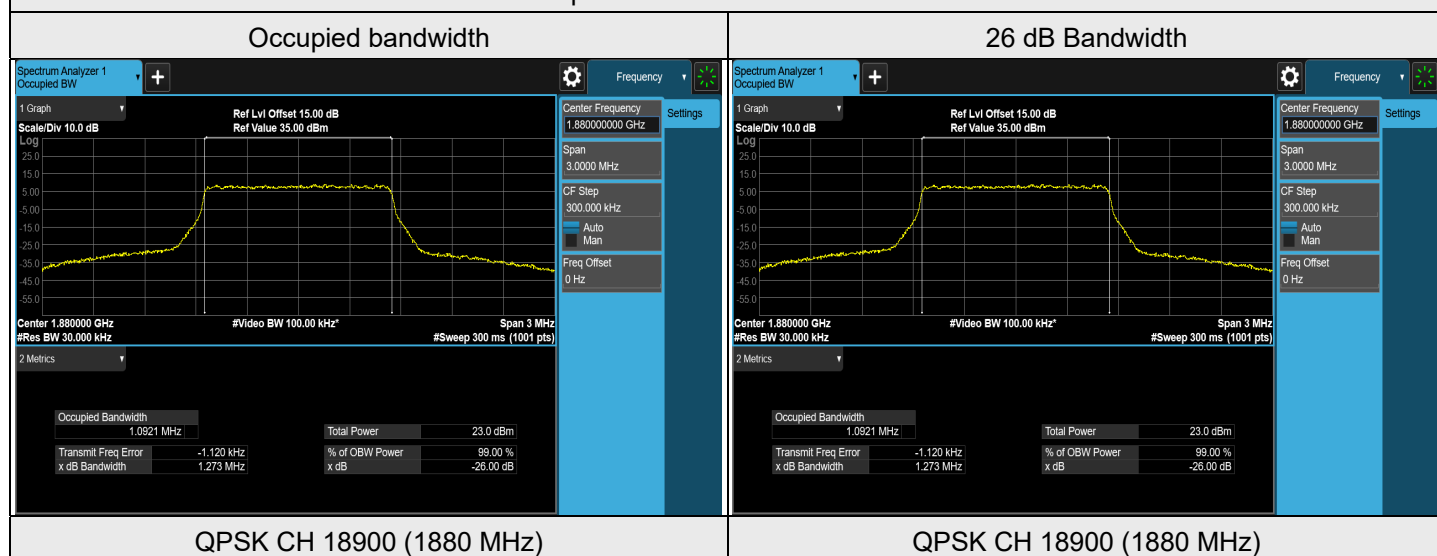
Input Power:	3.8 Vdc	Environmental Conditions:	21°C, 72% RH	Tested By:	Willy Cheng
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7.4.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0892	1.252
QPSK	18900	1880	1.0921	1.273
QPSK	19193	1909.3	1.0909	1.269
16QAM	18607	1850.7	1.0884	1.254
16QAM	18900	1880	1.0886	1.250
16QAM	19193	1909.3	1.0883	1.247
64QAM	18607	1850.7	1.0898	1.251
64QAM	18900	1880	1.0889	1.251
64QAM	19193	1909.3	1.0890	1.248

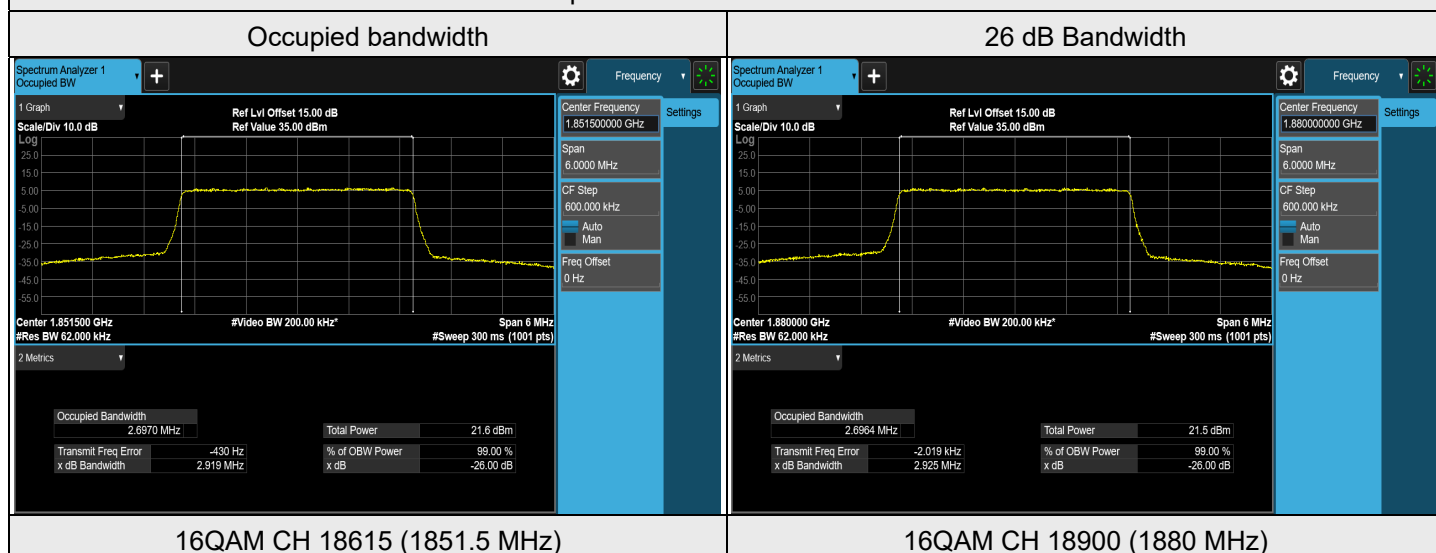
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.6960	2.911
QPSK	18900	1880	2.6964	2.913
QPSK	19185	1908.5	2.6956	2.921
16QAM	18615	1851.5	2.6970	2.919
16QAM	18900	1880	2.6964	2.925
16QAM	19185	1908.5	2.6955	2.914
64QAM	18615	1851.5	2.6931	2.903
64QAM	18900	1880	2.6944	2.899
64QAM	19185	1908.5	2.6949	2.904

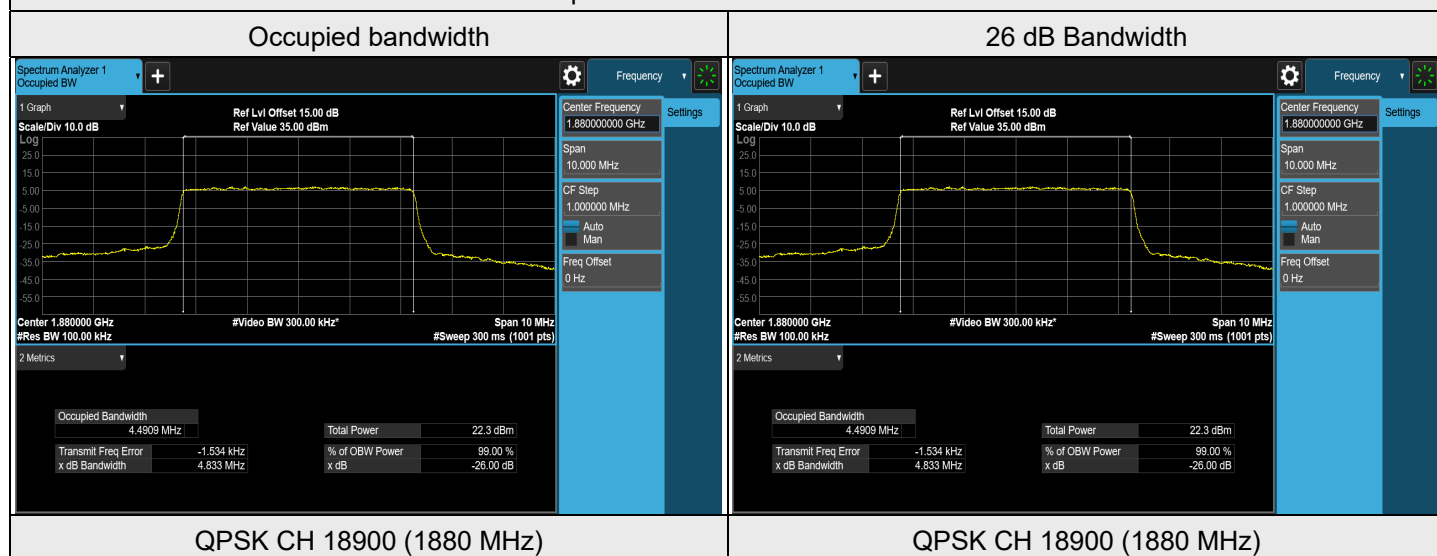
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.4893	4.818
QPSK	18900	1880	4.4909	4.833
QPSK	19175	1907.5	4.4861	4.812
16QAM	18625	1852.5	4.4845	4.807
16QAM	18900	1880	4.4882	4.805
16QAM	19175	1907.5	4.4825	4.803
64QAM	18625	1852.5	4.4900	4.809
64QAM	18900	1880	4.4903	4.816
64QAM	19175	1907.5	4.4857	4.799

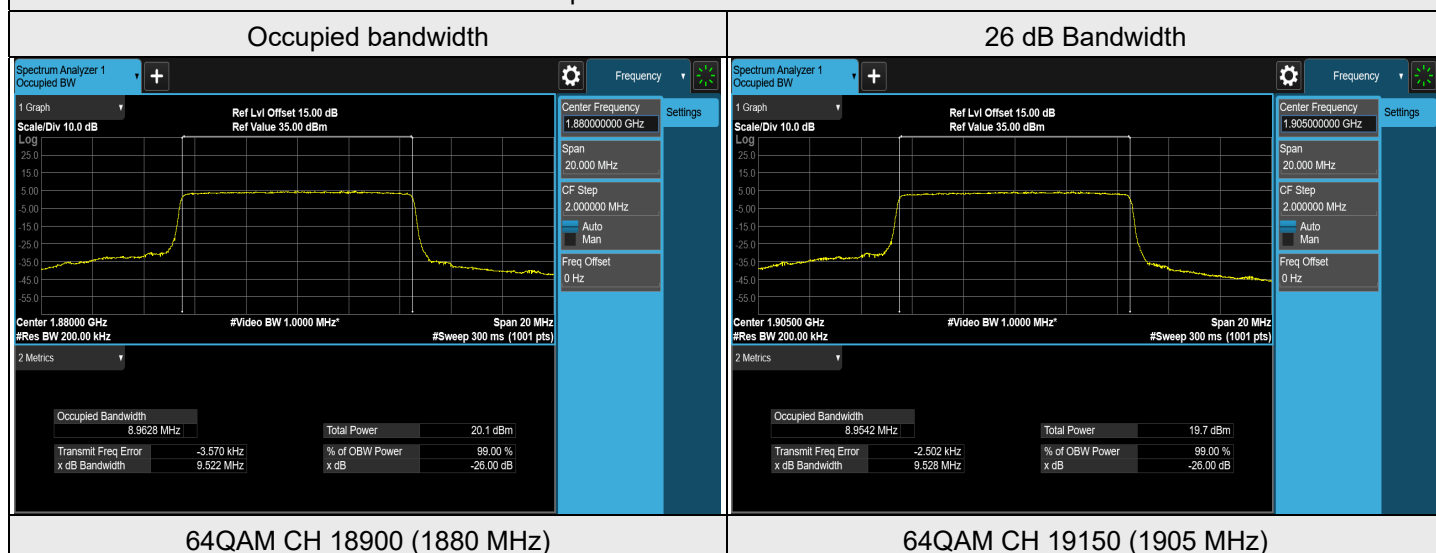
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9525	9.491
QPSK	18900	1880	8.9563	9.514
QPSK	19150	1905	8.9570	9.521
16QAM	18650	1855	8.9490	9.498
16QAM	18900	1880	8.9551	9.510
16QAM	19150	1905	8.9509	9.518
64QAM	18650	1855	8.9481	9.500
64QAM	18900	1880	8.9628	9.522
64QAM	19150	1905	8.9542	9.528

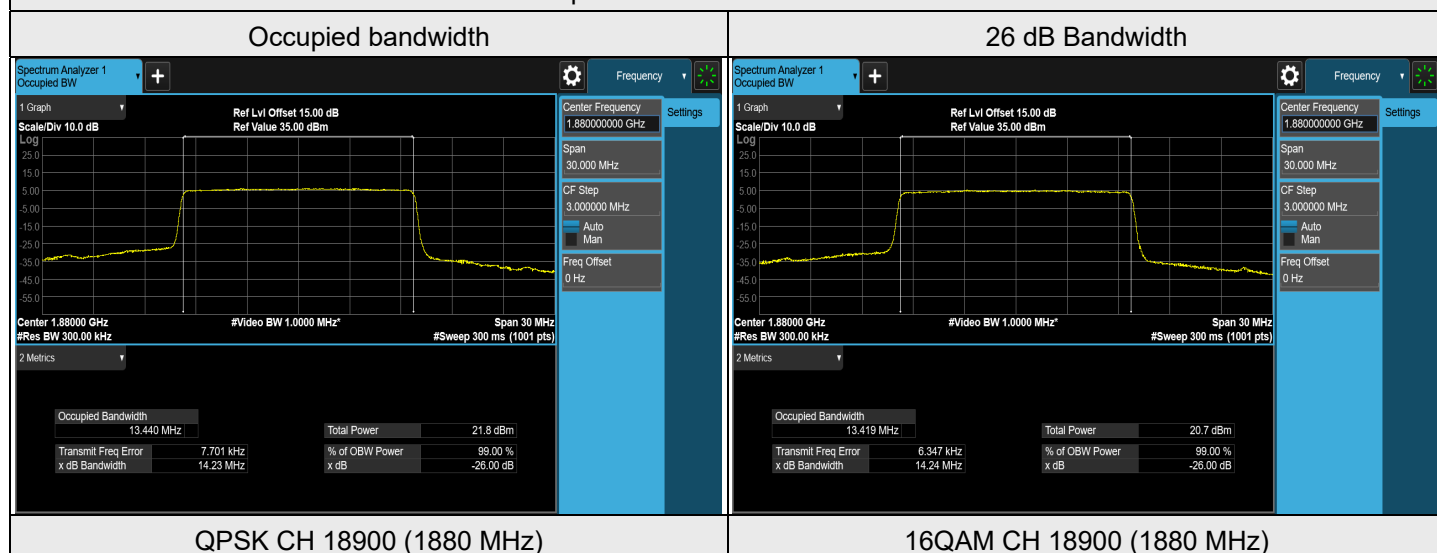
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.3891	14.192
QPSK	18900	1880	13.4401	14.231
QPSK	19125	1902.5	13.4372	14.226
16QAM	18675	1857.5	13.3768	14.184
16QAM	18900	1880	13.4194	14.239
16QAM	19125	1902.5	13.4202	14.213
64QAM	18675	1857.5	13.3728	14.195
64QAM	18900	1880	13.4191	14.239
64QAM	19125	1902.5	13.4151	14.239

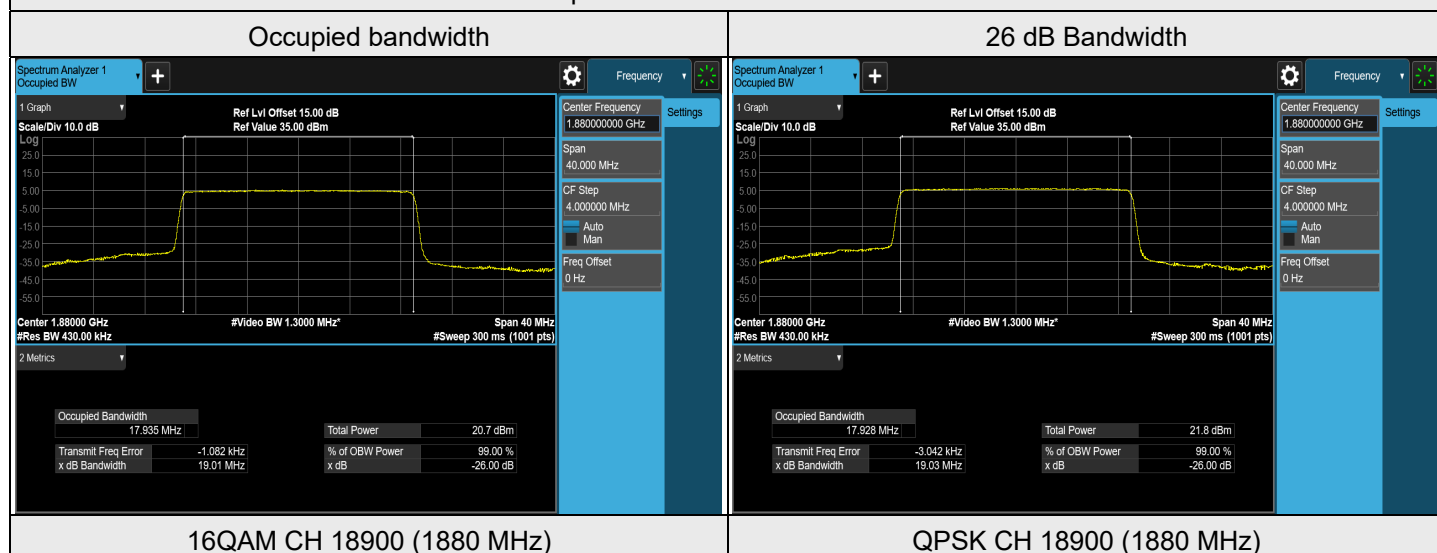
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.8192	18.952
QPSK	18900	1880	17.9283	19.025
QPSK	19100	1900	17.9238	19.020
16QAM	18700	1860	17.8287	18.959
16QAM	18900	1880	17.9348	19.011
16QAM	19100	1900	17.9263	19.013
64QAM	18700	1860	17.8216	18.956
64QAM	18900	1880	17.9323	19.021
64QAM	19100	1900	17.9170	19.013

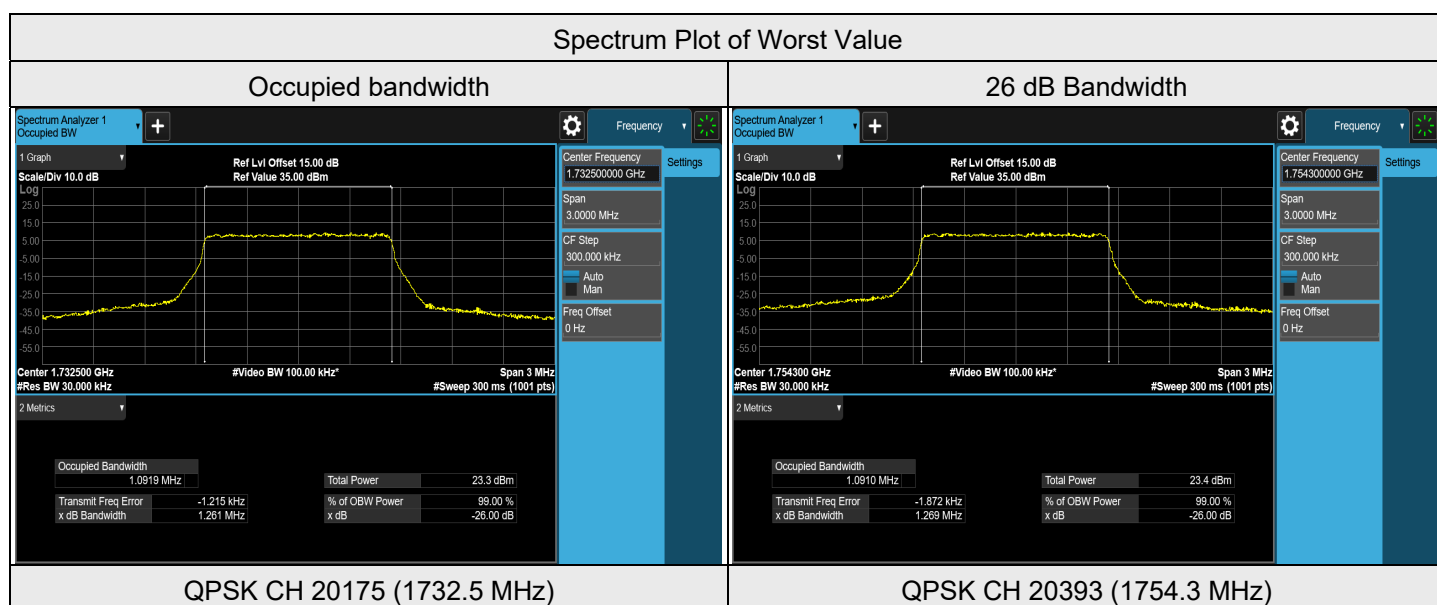
Spectrum Plot of Worst Value



7.4.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

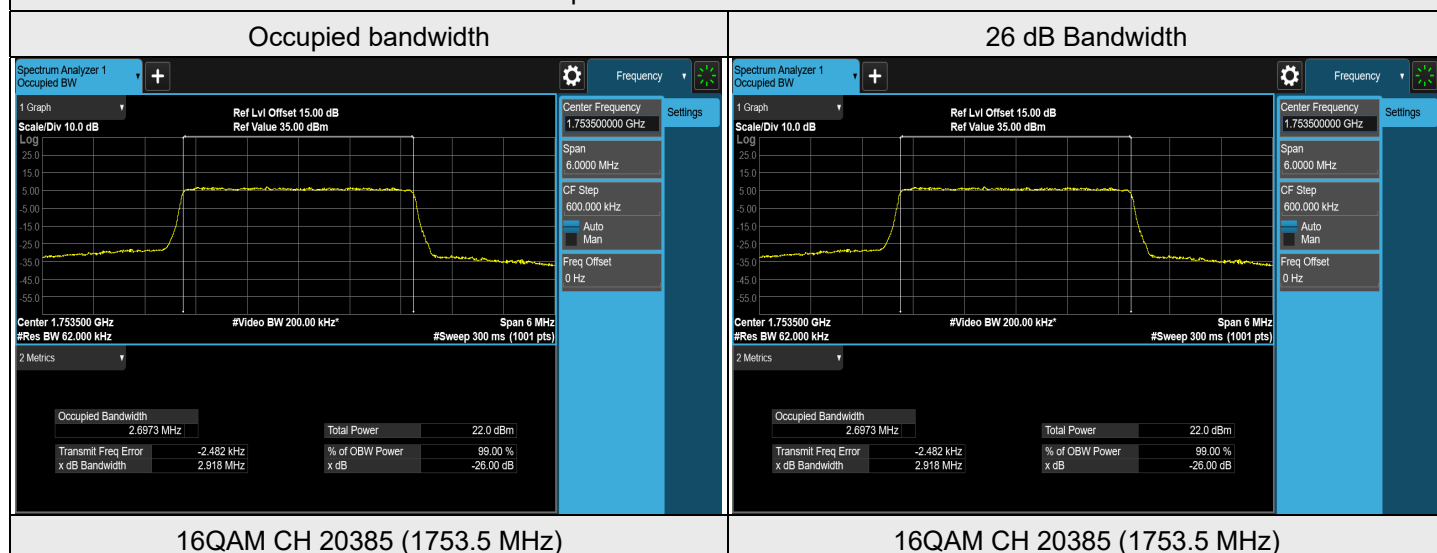
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0896	1.259
QPSK	20175	1732.5	1.0919	1.261
QPSK	20393	1754.3	1.0910	1.269
16QAM	19957	1710.7	1.0883	1.251
16QAM	20175	1732.5	1.0881	1.253
16QAM	20393	1754.3	1.0887	1.256
64QAM	19957	1710.7	1.0889	1.251
64QAM	20175	1732.5	1.0895	1.249
64QAM	20393	1754.3	1.0890	1.239



LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19965	1711.5	2.6963	2.909
QPSK	20175	1732.5	2.6949	2.910
QPSK	20385	1753.5	2.6969	2.911
16QAM	19965	1711.5	2.6955	2.916
16QAM	20175	1732.5	2.6960	2.916
16QAM	20385	1753.5	2.6973	2.918
64QAM	19965	1711.5	2.6953	2.903
64QAM	20175	1732.5	2.6932	2.898
64QAM	20385	1753.5	2.6945	2.899

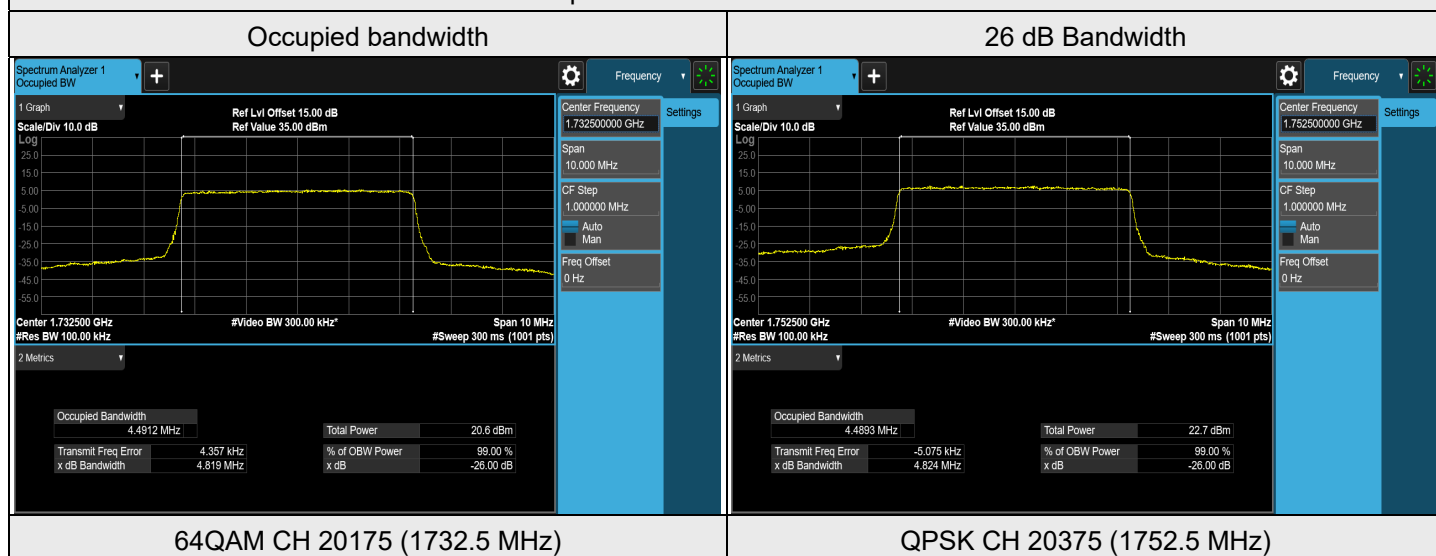
Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 5 MHz

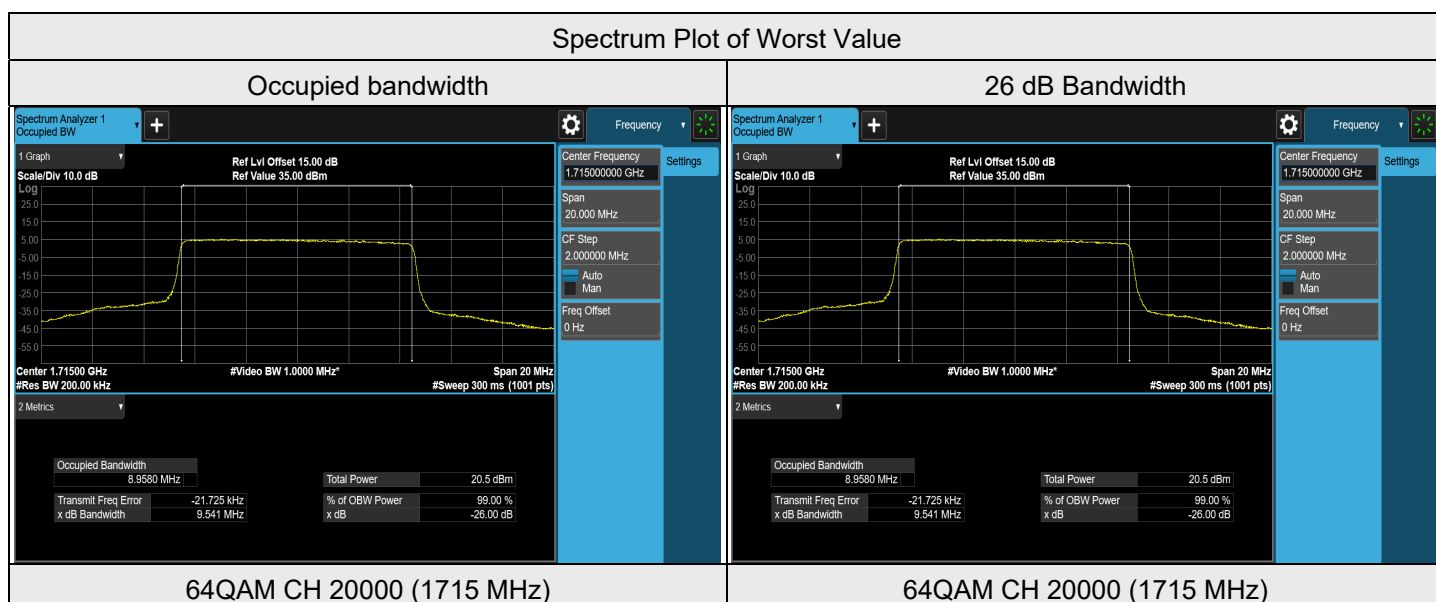
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4902	4.815
QPSK	20175	1732.5	4.4881	4.812
QPSK	20375	1752.5	4.4893	4.824
16QAM	19975	1712.5	4.4850	4.805
16QAM	20175	1732.5	4.4847	4.798
16QAM	20375	1752.5	4.4880	4.806
64QAM	19975	1712.5	4.4885	4.821
64QAM	20175	1732.5	4.4912	4.819
64QAM	20375	1752.5	4.4894	4.808

Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 10 MHz

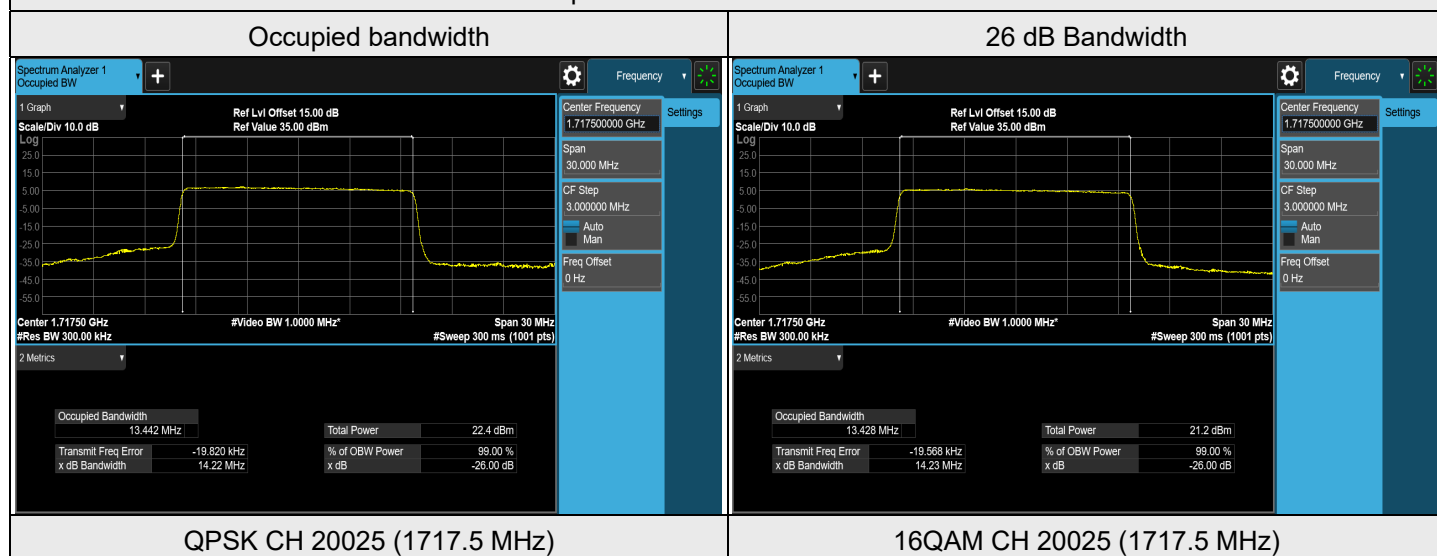
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20000	1715	8.9556	9.507
QPSK	20175	1732.5	8.9524	9.498
QPSK	20350	1750	8.9563	9.505
16QAM	20000	1715	8.9478	9.499
16QAM	20175	1732.5	8.9481	9.496
16QAM	20350	1750	8.9513	9.501
64QAM	20000	1715	8.9580	9.541
64QAM	20175	1732.5	8.9514	9.513
64QAM	20350	1750	8.9538	9.529



LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20025	1717.5	13.4421	14.218
QPSK	20175	1732.5	13.4036	14.196
QPSK	20325	1747.5	13.4005	14.190
16QAM	20025	1717.5	13.4281	14.226
16QAM	20175	1732.5	13.3939	14.213
16QAM	20325	1747.5	13.3910	14.188
64QAM	20025	1717.5	13.4201	14.224
64QAM	20175	1732.5	13.3889	14.199
64QAM	20325	1747.5	13.3878	14.211

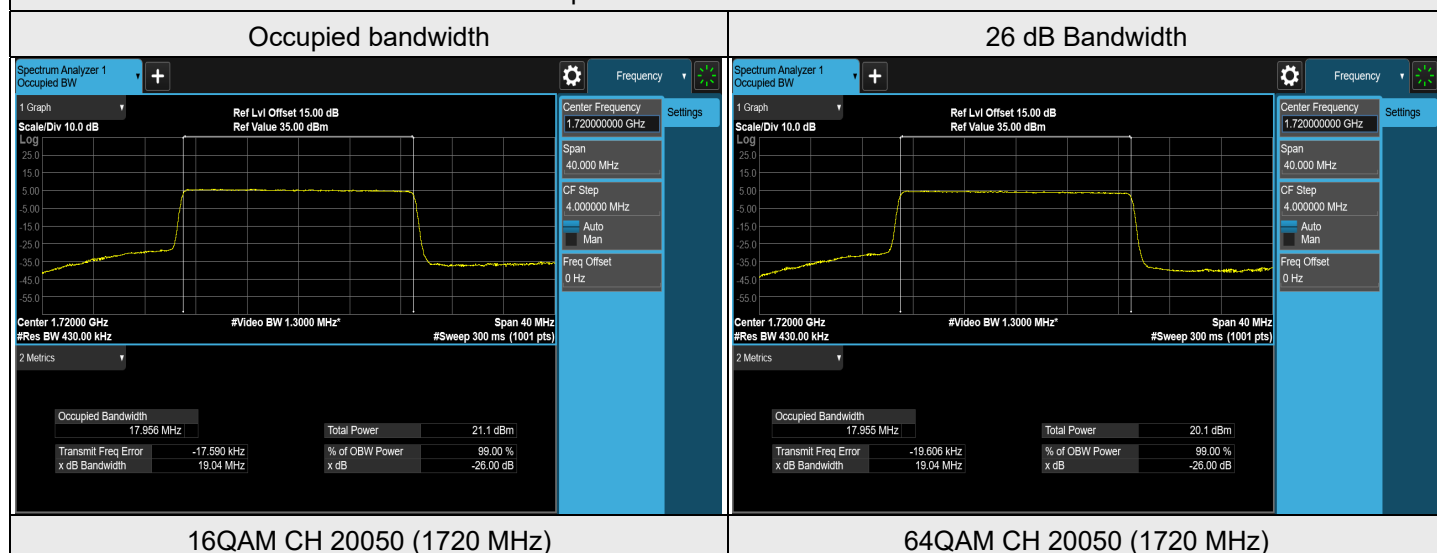
Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20050	1720	17.9491	19.029
QPSK	20175	1732.5	17.8720	18.996
QPSK	20300	1745	17.8312	18.958
16QAM	20050	1720	17.9565	19.035
16QAM	20175	1732.5	17.8844	18.986
16QAM	20300	1745	17.8513	18.963
64QAM	20050	1720	17.9549	19.040
64QAM	20175	1732.5	17.8749	18.984
64QAM	20300	1745	17.8386	18.963

Spectrum Plot of Worst Value

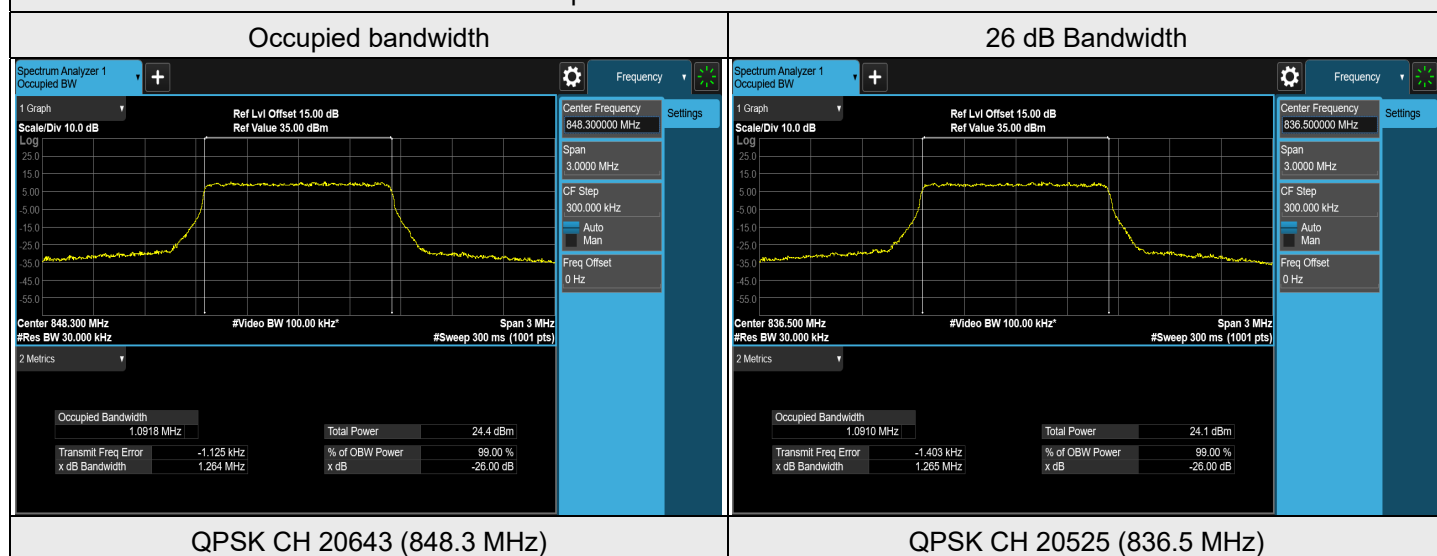


7.4.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0881	1.251
QPSK	20525	836.5	1.0910	1.265
QPSK	20643	848.3	1.0918	1.264
16QAM	20407	824.7	1.0889	1.254
16QAM	20525	836.5	1.0881	1.249
16QAM	20643	848.3	1.0879	1.252
64QAM	20407	824.7	1.0885	1.246
64QAM	20525	836.5	1.0889	1.248
64QAM	20643	848.3	1.0888	1.252

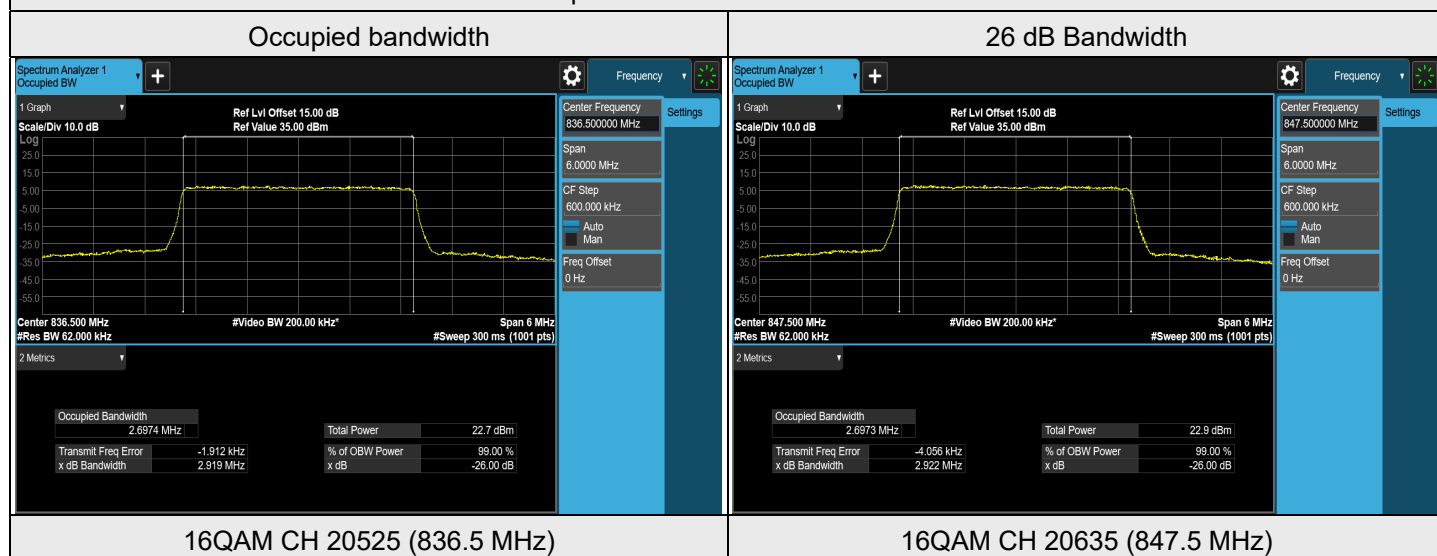
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.6966	2.910
QPSK	20525	836.5	2.6958	2.911
QPSK	20635	847.5	2.6966	2.911
16QAM	20415	825.5	2.6970	2.918
16QAM	20525	836.5	2.6974	2.919
16QAM	20635	847.5	2.6973	2.922
64QAM	20415	825.5	2.6958	2.896
64QAM	20525	836.5	2.6955	2.900
64QAM	20635	847.5	2.6948	2.899

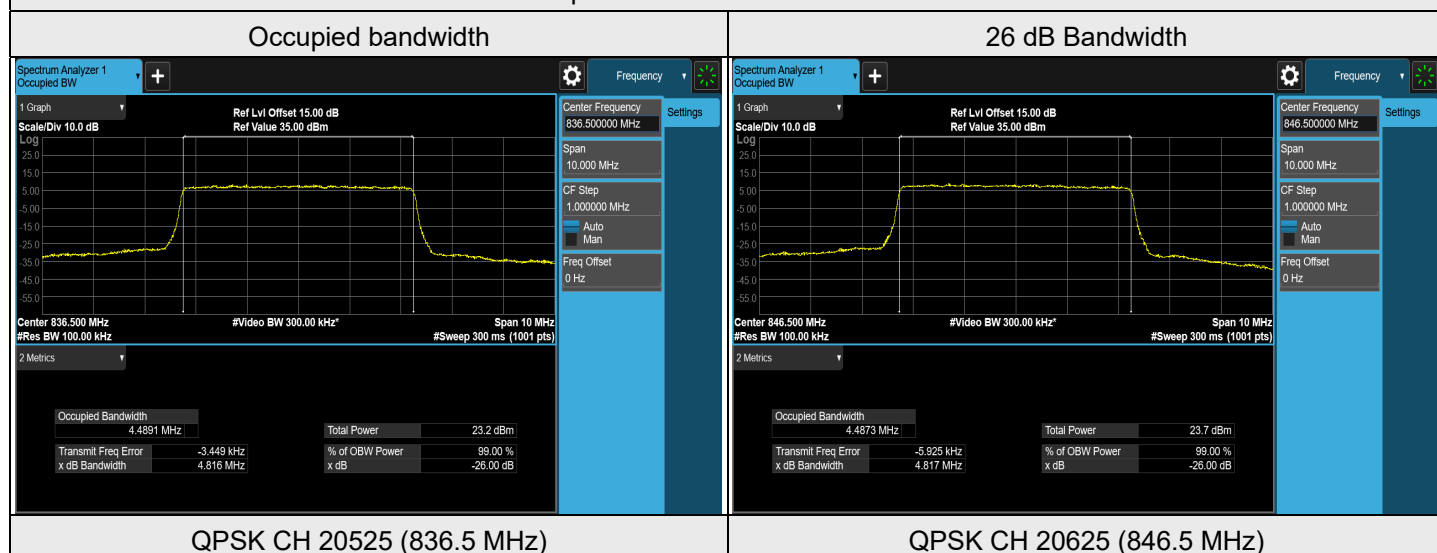
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4865	4.804
QPSK	20525	836.5	4.4891	4.816
QPSK	20625	846.5	4.4873	4.817
16QAM	20425	826.5	4.4841	4.799
16QAM	20525	836.5	4.4881	4.808
16QAM	20625	846.5	4.4868	4.811
64QAM	20425	826.5	4.4875	4.797
64QAM	20525	836.5	4.4867	4.801
64QAM	20625	846.5	4.4874	4.811

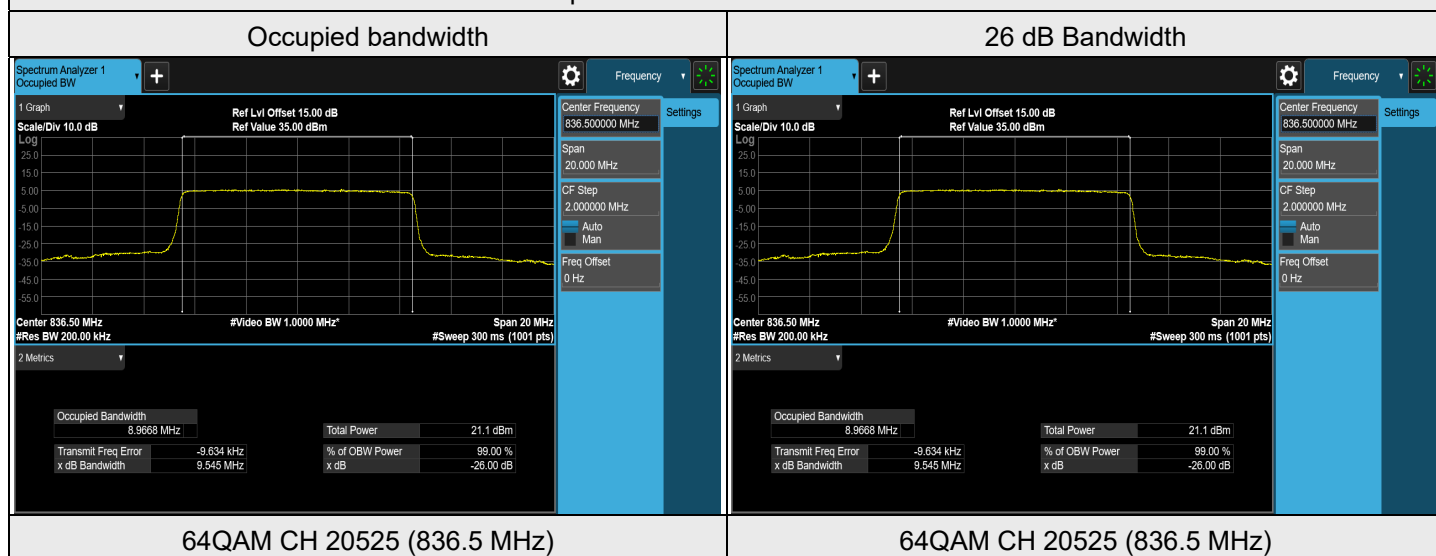
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9552	9.500
QPSK	20525	836.5	8.9648	9.530
QPSK	20600	844	8.9434	9.501
16QAM	20450	829	8.9491	9.506
16QAM	20525	836.5	8.9601	9.518
16QAM	20600	844	8.9457	9.496
64QAM	20450	829	8.9516	9.515
64QAM	20525	836.5	8.9668	9.545
64QAM	20600	844	8.9435	9.510

Spectrum Plot of Worst Value



64QAM CH 20525 (836.5 MHz)

64QAM CH 20525 (836.5 MHz)