

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.: RFCVSF-WTW-P25090814-5

FCC ID: PKRISGM4010

Product: Wireless Hotspot

Brand: Inseego

Model No.: M4010

Received Date: 2025/11/17

Test Date: 2025/11/30 ~ 2026/1/8

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FCC Registration /

Designation Number: 788550 / TW0003

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Date:

2026/1/12

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCVSF-WTW-P25090814-5	Original release.	2026/1/12

1 Certificate

Product: Wireless Hotspot

Brand: Inseego

Test Model: M4010

Sample Status: Engineering sample

Applicant: Inseego Corp.

Test Date: 2025/11/30 ~ 2026/1/8

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

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50(d) Part 27.50(h) Part 27.50(c) Part 27.50(b) Part 27.50(a) Part 90.635(b) Part 90.542(a)(7)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 22.913 (d) Part 24.232 (d) Part 27.50(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -1.69 dB at 33.88 MHz
Part 2.1053 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(a) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -9.01 dB at 1564.00 MHz
Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 Part 90.539(e)	Frequency Stability	Pass	Meet the requirement of limit.

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

2.1 Measurement Uncertainty

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

Parameter	Specification	Uncertainty (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Conducted Spurious Emissions	-	2.12 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB
Frequency Stability	-	0.176 ppm

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	Wireless Hotspot
Brand	Inseego
Test Model	M4010
Market Model Name	M4000, M4040
Model Difference	Marketing purpose
Status of EUT	Engineering sample
Power Supply Rating	5 Vdc or 9 Vdc or 12 Vdc from adapter 3.85 Vdc from battery
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
LTE support SISO bands	B2, B5, B7, B12, B13, B14, B26, B30, B38, B41, B66, B71
LTE support MIMO bands	-
LTE bands support CA mode	48C
PC3 for Power Class	B2, B5, B7, B12, B13, B14, B26, B30, B38, B41, B66, B71
PC2 for Power Class	-
PC1.5 for Power Class	-

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification	P/N
AC Adapter	SUNUN	P181	AC Input: 100-240 Vac, 50/60 Hz, 0.5 A max DC Output: 5 Vdc, 3 A; 9 Vdc, 2 A; 12 Vdc, 1.5 A	-
USB Cable	inseego	-	Signal Line: 1.0 m, shielded	CAB-60723090
Battery	inseego	754685	3.85 Vdc, 5050 mAh, 19.44 Wh	-

2. There are WLAN (2.4 GHz & 5 GHz) and WWAN technology used for the EUT.

3. Simultaneously transmission combination.

Combination	Technology	
1	WLAN 2.4 GHz	WWAN
2	WLAN 5 GHz	WWAN

4. This device supports LTE inter-band carrier aggregation (CA) with the following configurations:

CA_12A-30A, CA_12A-66A, CA_14A-30A, CA_14A-66A, CA_2A-12A, CA_2A-30A, CA_2A-66A, CA_30A-66A, CA_5A-30A, CA_5A-66A, CA_66A-71A, CA_2A-5A, CA_2A-71A.

* The EUT LTE support single band and inter-band carrier aggregation (CA) mode, after verification, single band mode was the worse case and chosen for final test.

5. 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.

6. EUT Overview

LTE Band 2

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1.4 MHz	1850.7 ~ 1909.3	QPSK	0.431	26.34	1M09G7D
		16QAM	0.344	25.37	1M09D7W
		64QAM	0.274	24.38	1M09D7W
		256QAM	0.135	21.31	1M09D7W
3 MHz	1851.5 ~ 1908.5	QPSK	0.437	26.40	2M70G7D
		16QAM	0.345	25.38	2M70D7W
		64QAM	0.272	24.34	2M70D7W
		256QAM	0.135	21.29	2M70D7W
5 MHz	1852.5 ~ 1907.5	QPSK	0.434	26.37	4M50G7D
		16QAM	0.348	25.42	4M50D7W
		64QAM	0.273	24.36	4M50D7W
		256QAM	0.136	21.33	4M50D7W
10 MHz	1855 ~ 1905	QPSK	0.436	26.39	8M99G7D
		16QAM	0.345	25.38	8M98D7W
		64QAM	0.274	24.37	8M98D7W
		256QAM	0.136	21.34	8M98D7W
15 MHz	1857.5 ~ 1902.5	QPSK	0.437	26.40	13M5G7D
		16QAM	0.346	25.39	13M5D7W
		64QAM	0.273	24.36	13M5D7W
		256QAM	0.136	21.34	13M5D7W
20 MHz	1860 ~ 1900	QPSK	0.439	26.42	18M0G7D
		16QAM	0.351	25.45	18M0D7W
		64QAM	0.275	24.40	18M0D7W
		256QAM	0.136	21.35	18M0D7W

LTE Band 5

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
1.4 MHz	824.7 ~ 848.3	QPSK	0.068	18.34	1M09G7D
		16QAM	0.054	17.36	1M10D7W
		64QAM	0.043	16.31	1M09D7W
		256QAM	0.022	13.36	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.068	18.35	2M70G7D
		16QAM	0.055	17.38	2M70D7W
		64QAM	0.043	16.31	2M70D7W
		256QAM	0.021	13.31	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.068	18.33	4M50G7D
		16QAM	0.054	17.33	4M50D7W
		64QAM	0.043	16.34	4M50D7W
		256QAM	0.022	13.36	4M50D7W
10 MHz	829 ~ 844	QPSK	0.069	18.39	8M99G7D
		16QAM	0.055	17.41	9M00D7W
		64QAM	0.043	16.36	9M00D7W
		256QAM	0.022	13.38	9M00D7W

LTE Band 7

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2502.5 ~ 2567.5	QPSK	0.565	27.52	4M50G7D
		16QAM	0.451	26.54	4M49D7W
		64QAM	0.356	25.52	4M50D7W
		256QAM	0.177	22.48	4M49D7W
10 MHz	2505 ~ 2565	QPSK	0.569	27.55	8M99G7D
		16QAM	0.454	26.57	8M99D7W
		64QAM	0.356	25.52	8M98D7W
		256QAM	0.176	22.45	8M98D7W
15 MHz	2507.5 ~ 2562.5	QPSK	0.57	27.56	13M5G7D
		16QAM	0.453	26.56	13M5D7W
		64QAM	0.352	25.46	13M5D7W
		256QAM	0.175	22.43	13M5D7W
20 MHz	2510 ~ 2560	QPSK	0.574	27.59	18M0G7D
		16QAM	0.456	26.59	18M0D7W
		64QAM	0.357	25.53	18M0D7W
		256QAM	0.179	22.53	18M0D7W

LTE Band 12

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
1.4 MHz	699.7 ~ 715.3	QPSK	0.039	15.86	1M09G7D
		16QAM	0.031	14.94	1M09D7W
		64QAM	0.024	13.83	1M09D7W
		256QAM	0.012	10.79	1M09D7W
3 MHz	700.5 ~ 714.5	QPSK	0.039	15.86	2M70G7D
		16QAM	0.031	14.97	2M71D7W
		64QAM	0.024	13.82	2M71D7W
		256QAM	0.012	10.86	2M70D7W
5 MHz	701.5 ~ 713.5	QPSK	0.038	15.85	4M50G7D
		16QAM	0.031	14.96	4M51D7W
		64QAM	0.025	13.91	4M51D7W
		256QAM	0.012	10.85	4M50D7W
10 MHz	704 ~ 711	QPSK	0.039	15.94	8M98G7D
		16QAM	0.032	14.99	8M98D7W
		64QAM	0.025	13.92	8M97D7W
		256QAM	0.012	10.87	8M97D7W

LTE Band 13

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	779.5 ~ 784.5	QPSK	0.049	16.94	4M50G7D
		16QAM	0.039	15.94	4M50D7W
		64QAM	0.032	15.07	4M50D7W
		256QAM	0.018	12.54	4M50D7W
10 MHz	782	QPSK	0.05	16.95	8M90G7D
		16QAM	0.04	15.98	8M91D7W
		64QAM	0.033	15.15	8M91D7W
		256QAM	0.018	12.62	8M90D7W

LTE Band 14

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	790.5 ~ 795.5	QPSK	0.053	17.23	4M49G7D
		16QAM	0.042	16.27	4M50D7W
		64QAM	0.033	15.19	4M50D7W
		256QAM	0.016	12.11	4M50D7W
10 MHz	793	QPSK	0.054	17.33	8M93G7D
		16QAM	0.043	16.31	8M94D7W
		64QAM	0.033	15.24	8M93D7W
		256QAM	0.016	12.16	8M93D7W

LTE Band 26 (814 MHz ~ 824 MHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
1.4 MHz	814.7 ~ 823.3	QPSK	0.067	18.29	1M09G7D
		16QAM	0.052	17.16	1M09D7W
		64QAM	0.041	16.17	1M09D7W
		256QAM	0.021	13.18	1M09D7W
3 MHz	815.5 ~ 822.5	QPSK	0.068	18.31	2M71G7D
		16QAM	0.052	17.19	2M70D7W
		64QAM	0.041	16.17	2M70D7W
		256QAM	0.021	13.18	2M71D7W
5 MHz	816.5 ~ 821.5	QPSK	0.068	18.32	4M49G7D
		16QAM	0.053	17.21	4M49D7W
		64QAM	0.041	16.18	4M49D7W
		256QAM	0.021	13.19	4M49D7W
10 MHz	819	QPSK	0.068	18.35	8M96G7D
		16QAM	0.053	17.27	8M95D7W
		64QAM	0.042	16.21	8M96D7W
		256QAM	0.021	13.26	8M96D7W

LTE Band 26 (824 MHz ~ 849 MHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
1.4 MHz	824.7 ~ 848.3	QPSK	0.068	18.33	1M09G7D
		16QAM	0.054	17.32	1M09D7W
		64QAM	0.042	16.25	1M09D7W
		256QAM	0.022	13.34	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.068	18.31	2M70G7D
		16QAM	0.054	17.29	2M70D7W
		64QAM	0.042	16.26	2M70D7W
		256QAM	0.022	13.36	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.068	18.35	4M50G7D
		16QAM	0.054	17.31	4M50D7W
		64QAM	0.043	16.3	4M50D7W
		256QAM	0.022	13.34	4M50D7W
10 MHz	829 ~ 844	QPSK	0.068	18.32	9M00G7D
		16QAM	0.053	17.26	8M99D7W
		64QAM	0.043	16.29	8M99D7W
		256QAM	0.021	13.31	8M99D7W
15 MHz	831.5 ~ 841.5	QPSK	0.069	18.38	13M5G7D
		16QAM	0.054	17.34	13M5D7W
		64QAM	0.043	16.34	13M5D7W
		256QAM	0.022	13.4	13M5D7W

LTE Band 30

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2307.5 ~ 2312.5	QPSK	0.211	23.24	4M50G7D
		16QAM	0.167	22.22	4M50D7W
		64QAM	0.128	21.06	4M50D7W
		256QAM	0.064	18.04	4M50D7W
10 MHz	2310	QPSK	0.213	23.29	8M98G7D
		16QAM	0.17	22.31	8M97D7W
		64QAM	0.131	21.16	8M98D7W
		256QAM	0.064	18.09	8M97D7W

LTE Band 38

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2572.5 ~ 2617.5	QPSK	0.528	27.23	4M50G7D
		16QAM	0.421	26.24	4M50D7W
		64QAM	0.323	25.09	4M50D7W
		256QAM	0.163	22.13	4M50D7W
10 MHz	2575 ~ 2615	QPSK	0.533	27.27	8M99G7D
		16QAM	0.422	26.25	8M98D7W
		64QAM	0.325	25.12	8M98D7W
		256QAM	0.161	22.07	8M98D7W
15 MHz	2577.5 ~ 2612.5	QPSK	0.53	27.24	13M5G7D
		16QAM	0.423	26.26	13M5D7W
		64QAM	0.324	25.11	13M5D7W
		256QAM	0.162	22.10	13M5D7W
20 MHz	2580 ~ 2610	QPSK	0.537	27.30	18M0G7D
		16QAM	0.427	26.30	18M0D7W
		64QAM	0.329	25.17	18M0D7W
		256QAM	0.165	22.17	18M0D7W

LTE Band 41

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2498.5 ~ 2687.5	QPSK	0.579	27.63	4M51G7D
		16QAM	0.459	26.62	4M50D7W
		64QAM	0.367	25.65	4M50D7W
		256QAM	0.178	22.51	4M50D7W
10 MHz	2501 ~ 2685	QPSK	0.571	27.57	8M99G7D
		16QAM	0.459	26.62	8M99D7W
		64QAM	0.366	25.63	8M99D7W
		256QAM	0.175	22.44	8M98D7W
15 MHz	2503.5 ~ 2682.5	QPSK	0.574	27.59	13M5G7D
		16QAM	0.456	26.59	13M5D7W
		64QAM	0.366	25.63	13M5D7W
		256QAM	0.179	22.53	13M5D7W
20 MHz	2506 ~ 2680	QPSK	0.581	27.64	18M0G7D
		16QAM	0.467	26.69	18M0D7W
		64QAM	0.368	25.66	18M0D7W
		256QAM	0.179	22.54	18M0D7W

LTE Band 66

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1.4 MHz	1710.7 ~ 1779.3	QPSK	0.426	26.29	1M09G7D
		16QAM	0.338	25.29	1M09D7W
		64QAM	0.263	24.20	1M09D7W
		256QAM	0.129	21.12	1M09D7W
3 MHz	1711.5 ~ 1778.5	QPSK	0.424	26.27	2M70G7D
		16QAM	0.344	25.36	2M70D7W
		64QAM	0.26	24.15	2M70D7W
		256QAM	0.131	21.16	2M70D7W
5 MHz	1712.5 ~ 1777.5	QPSK	0.428	26.31	4M50G7D
		16QAM	0.342	25.34	4M50D7W
		64QAM	0.261	24.16	4M50D7W
		256QAM	0.132	21.19	4M49D7W
10 MHz	1715 ~ 1775	QPSK	0.426	26.29	8M98G7D
		16QAM	0.343	25.35	8M98D7W
		64QAM	0.264	24.21	8M98D7W
		256QAM	0.131	21.16	8M98D7W
15 MHz	1717.5 ~ 1772.5	QPSK	0.427	26.30	13M5G7D
		16QAM	0.338	25.29	13M5D7W
		64QAM	0.263	24.20	13M5D7W
		256QAM	0.131	21.16	13M5D7W
20 MHz	1720 ~ 1770	QPSK	0.432	26.35	18M0G7D
		16QAM	0.344	25.37	18M0D7W
		64QAM	0.266	24.25	18M0D7W
		256QAM	0.132	21.20	18M0D7W

LTE Band 71

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	665.5 ~ 695.5	QPSK	0.056	17.50	4M50G7D
		16QAM	0.045	16.52	4M49D7W
		64QAM	0.036	15.51	4M49D7W
		256QAM	0.018	12.53	4M49D7W
10 MHz	668 ~ 693	QPSK	0.057	17.55	8M97G7D
		16QAM	0.045	16.55	8M97D7W
		64QAM	0.035	15.47	8M95D7W
		256QAM	0.018	12.58	8M96D7W
15 MHz	670.5 ~ 690.5	QPSK	0.057	17.55	13M5G7D
		16QAM	0.045	16.55	13M5D7W
		64QAM	0.035	15.50	13M5D7W
		256QAM	0.018	12.57	13M5D7W
20 MHz	673 ~ 688	QPSK	0.057	17.59	18M0G7D
		16QAM	0.045	16.58	18M0D7W
		64QAM	0.036	15.54	18M0D7W
		256QAM	0.018	12.63	18M0D7W

7. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.

8. 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.

Type		PIFA				
Connector		Contact spring				
Band		Freq. Range (MHz)	Gain (dBi)			
			WWAN (A0-TX0)	WWAN (A1-TX0)	WWAN (A1-TX1)	WWAN (A5-TX0)
LTE B2	1TX (Diversity)	1850 ~ 1910	1.87	-	1.92	-
LTE B5	1TX	824 ~ 849	-	-3.95	-	-
LTE B7	1TX (Diversity)	2500 ~ 2570	3.15	-	2.6	-
LTE B12	1TX	698 ~ 716	-	-6.37	-	-
LTE B13	1TX	777 ~ 787	-	-4.97	-	-
LTE B14	1TX	788 ~ 798	-	-4.97	-	-
LTE B26	1TX	814 ~ 849	-	-3.95	-	-
LTE B30	1TX	2305 ~ 2315	-	-	-	0.88
LTE B38	1TX (Diversity)	2570 ~ 2620	3.05	-	2.6	-
LTE B41	1TX (Diversity)	2496 ~ 2690	3.15	-	2.6	-
LTE B66	1TX (Diversity)	1710 ~ 1780	1.87	-	1.92	-
LTE B71	1TX	663 ~ 698	-4.59	-	-	-

* For 1TX (Diversity), the maximum antenna gain for each band were chosen for final test.

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

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. 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. 2. Pre-Scan has been conducted to determine the worst-case from all possible combinations of EUT configure mode (1TX or 2TX if available), channel, bandwidth, modulation and RB mode. See below table(s) for details.
Worst Case:	X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis

3.3.1 LTE Band 2

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	18900(1880.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	PC3 (1TX)	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	19193(1909.30 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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
Frequency Stability	PC3 (1TX)	18700(1860.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	Full RB

3.3.2 LTE Band 5

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	20525(836.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	PC3 (1TX)	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	20625(846.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	20450(829.00 MHz) 20600(844.00 MHz)	10 MHz	QPSK	Full RB

3.3.3 LTE Band 7

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		21100(2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Modulation Characteristics	PC3 (1TX)	21100(2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	21350(2560.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	20850(2510.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK	Full RB

3.3.4 LTE Band 12

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	23095(707.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	23017(699.70 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	23060(704.00 MHz) 23130(711.00 MHz)	10 MHz	QPSK	Full RB

3.3.5 LTE Band 13

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	23230(782.00 MHz)	10 MHz	QPSK	Full RB

3.3.6 LTE Band 14

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	23355(795.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	23330(793.00 MHz)	10 MHz	QPSK	Full RB

3.3.7 LTE Band 26 (814 MHz ~ 824 MHz)

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Bandwidth	PC3 (1TX)	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	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

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	PC3 (1TX)	26740(819.00 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	26697(814.70 MHz)	1.4 MHz	QPSK	1 RB
		26740(819.00 MHz)			
		26783(823.30 MHz)			
		26715(816.50 MHz)	5 MHz	QPSK	1 RB
		26740(819.00 MHz)			
		26765(821.50 MHz)	10 MHz	QPSK	1 RB
		26740(819.00 MHz)			
Frequency Stability	PC3 (1TX)	26740(819.00 MHz)	10 MHz	QPSK	Full RB

3.3.8 LTE Band 26 (824 MHz ~ 849 MHz)

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	26915(836.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	PC3 (1TX)	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	26915(836.50 MHz)	15 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	26865(831.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK	Full RB

3.3.9 LTE Band 30

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	27685(2307.50 MHz) 27710(2310.00 MHz) 27735(2312.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	27685(2307.50 MHz) 27710(2310.00 MHz) 27735(2312.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	27685(2307.50 MHz) 27710(2310.00 MHz) 27735(2312.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	27685(2307.50 MHz) 27710(2310.00 MHz) 27735(2312.50 MHz)	5 MHz	QPSK	1 RB Full RB
		27710(2310.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	PC3 (1TX)	27710(2310.00 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	27685(2307.50 MHz) 27710(2310.00 MHz) 27735(2312.50 MHz)	5 MHz	QPSK	1 RB
		27710(2310.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	PC3 (1TX)	27710(2310.00 MHz)	10 MHz	QPSK	Full RB

3.3.10 LTE Band 38

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	38000(2595.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Bandwidth	PC3 (1TX)	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK	1 RB Full RB
		37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK	1 RB Full RB
		37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK	1 RB Full RB
		37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK	1 RB Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	PC3 (1TX)	37775(2572.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	37775(2572.50 MHz)	5 MHz	QPSK	1 RB
		38000(2595.00 MHz)			
		38225(2617.50 MHz)			
		37850(2580.00 MHz)	20 MHz	QPSK	1 RB
		38000(2595.00 MHz)			
Frequency Stability	PC3 (1TX)	38150(2610.00 MHz)	20 MHz	QPSK	Full RB
		37850(2580.00 MHz)			

3.3.11 LTE Band 41

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	40620(2593.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Bandwidth	PC3 (1TX)	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK	1 RB Full RB
		39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK	1 RB Full RB
		39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK	1 RB Full RB
		39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK	1 RB Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	PC3 (1TX)	40620(2593.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	39675(2498.50 MHz)	5 MHz	QPSK	1 RB
		40620(2593.00 MHz)			
		41565(2687.50 MHz)			
		39750(2506.00 MHz)	20 MHz	QPSK	1 RB
		40620(2593.00 MHz)			
Frequency Stability	PC3 (1TX)	41490(2680.00 MHz)	20 MHz	QPSK	Full RB
		39750(2506.00 MHz)			

3.3.12 LTE Band 66

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	PC3 (1TX)	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	PC3 (1TX)	132322(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	PC3 (1TX)	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	PC3 (1TX)	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
		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

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	PC3 (1TX)	132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	131979(1710.70 MHz)	1.4 MHz	QPSK	1 RB
		132322(1745.00 MHz)			
		132665(1779.30 MHz)			
		131997(1712.50 MHz)	5 MHz	QPSK	1 RB
		132322(1745.00 MHz)			
		132647(1777.50 MHz)			
		132072(1720.00 MHz)	20 MHz	QPSK	1 RB
		132322(1745.00 MHz)			
		132572(1770.00 MHz)			
Frequency Stability	PC3 (1TX)	132072(1720.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK	Full RB

3.3.13 LTE Band 71

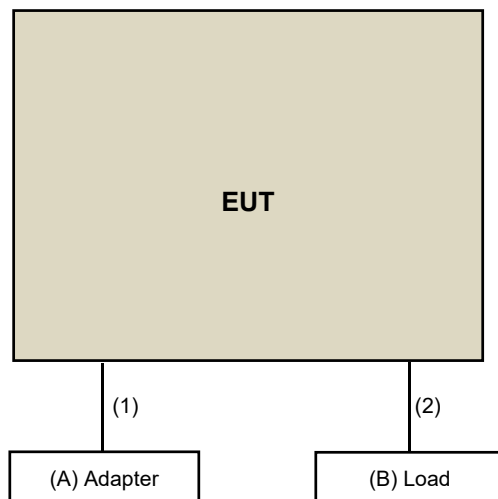
Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	PC3 (1TX)	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		133297(680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133297(680.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Modulation Characteristics	PC3 (1TX)	133297(680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3 (1TX)	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	PC3 (1TX)	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	PC3 (1TX)	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	PC3 (1TX)	133297(680.50 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3 (1TX)	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	PC3 (1TX)	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



Remote Site



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	SUNUN	P181	N/A	N/A	Accessory of EUT
B	Load	N/A	N/A	N/A	N/A	Provided by Lab
C	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1.0	Y	0	Accessory of EUT
2	RJ45 Cable	1	1.5	N	0	Provided by Lab

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
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/11/30 ~ 2026/1/8

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/11/30 ~ 2026/1/8

4.3 Peak to Average Ratio

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/11/30 ~ 2026/1/8

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier EMCI	EMC 330H	980112	2025/9/21	2026/9/20
	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2025/9/21	2026/9/20
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/12/2 ~ 2026/1/8

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2025/11/9	2026/11/8
	BBHA 9170	148	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
	EMC118A45SE	980809	2025/4/24	2026/4/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
	EMC104-SM-SM- 8000+3000	171005	2025/9/21	2026/9/20
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2025/9/21	2026/9/20
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2025/12/1 ~ 2026/1/8

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply OWON	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2025/6/6	2026/6/5
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2025/6/25	2026/6/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/12/24 ~ 2026/1/8

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For LTE Band 2:

Mobile and portable stations are limited to 2 watts EIRP.

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

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

For LTE Band 7, LTE Band 38, 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 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 (814 MHz ~ 824 MHz):

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

For LTE Band 30:

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

For 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.

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 26 (824 MHz ~ 849 MHz):

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 7, LTE Band 38, 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 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 (814 MHz ~ 824 MHz):

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 30:

According to FCC 47 CFR part 27.53(a)(4), for mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 MHz and 2320 MHz and on all frequencies between 2345 MHz and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 MHz and 2324 MHz and on all frequencies between 2341 MHz and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 MHz and 2328 MHz and on all frequencies between 2337 MHz and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 MHz and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 MHz and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 MHz and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 MHz and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 MHz and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 MHz and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.
- (iv) Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305 MHz, 2310 MHz, 2315 MHz, 2320 MHz, 2345 MHz, 2350 MHz, 2355 MHz, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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 26 (824 MHz ~ 849 MHz):

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 7, LTE Band 38, 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 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 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.

For LTE Band 26 (814 MHz ~ 824 MHz):

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 30:

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log(P)$ dB. The limit of emission is equal to -40 dBm.

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 26 (824 MHz ~ 849 MHz):

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 7, LTE Band 38, 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 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 (814 MHz ~ 824 MHz):

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 30:

According to FCC 47 CFR part 27.53(a)(4)(ii)(iii), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $70 + 10 \log(P)$ dB. The limit of emission is equal to -40 dBm.

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 2, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 30, LTE Band 38, 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 5, LTE Band 26 (814 MHz ~ 824 MHz), LTE Band 26 (824 MHz ~ 849 MHz):

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

For LTE Band 14:

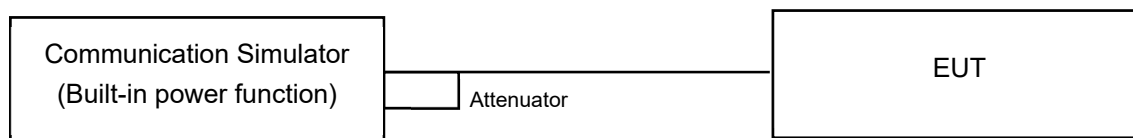
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

6 Test Arrangements

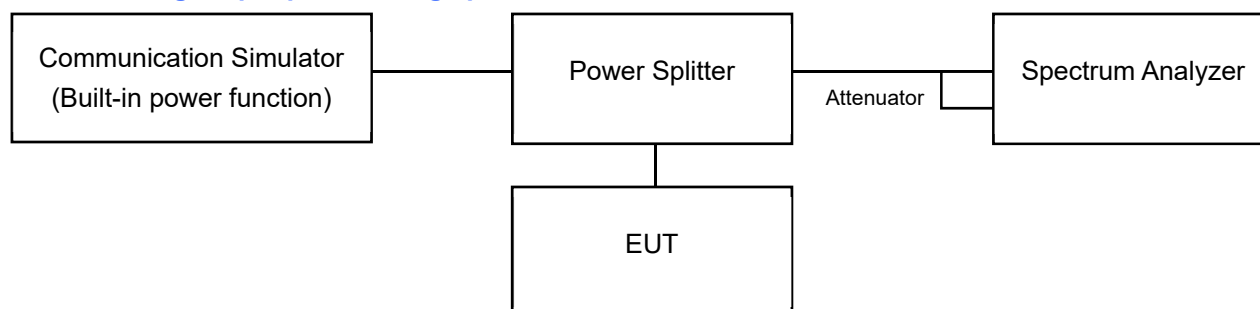
6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



For measuring output power using spectrum



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.

For measuring output power using spectrum

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements. Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer. Power measurements use detector average (rms).

For measuring output power using spectrum

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- Set span to $2 \times$ to $3 \times$ the OBW.
- Set RBW = 1% to 5% of the OBW.
- Set VBW $\geq 3 \times$ RBW.
- Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- Set Sweep time = auto-couple.
- Detector = power averaging (rms).
- Set sweep trigger to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- Use the Band/Channel Power function to determine the integrated power per 5 MHz bandwidth, according to the 47 CFR FCC Part 27 section 27.53(a)(3)(i) standard.
- If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Maximum EIRP / ERP

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

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

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

where

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

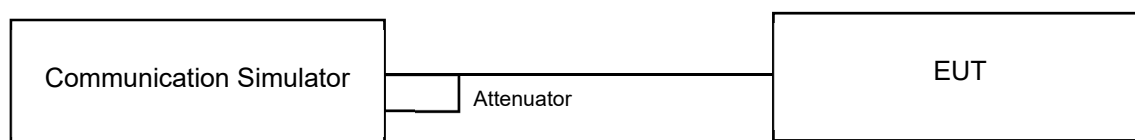
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

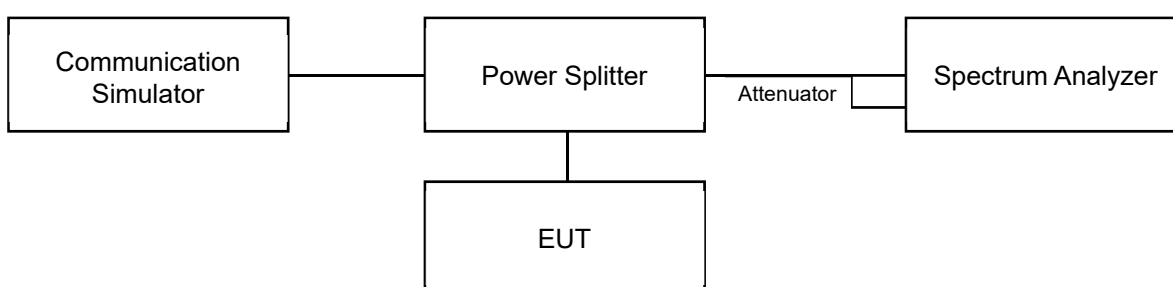


6.2.2 Test Procedure

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

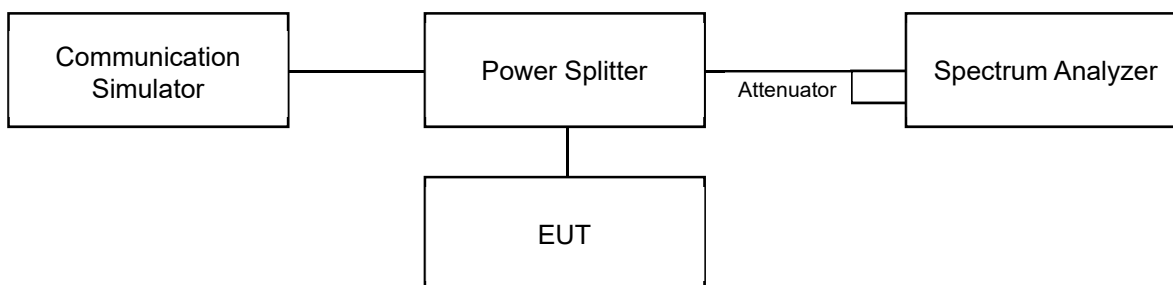


6.3.2 Test Procedure

- 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.

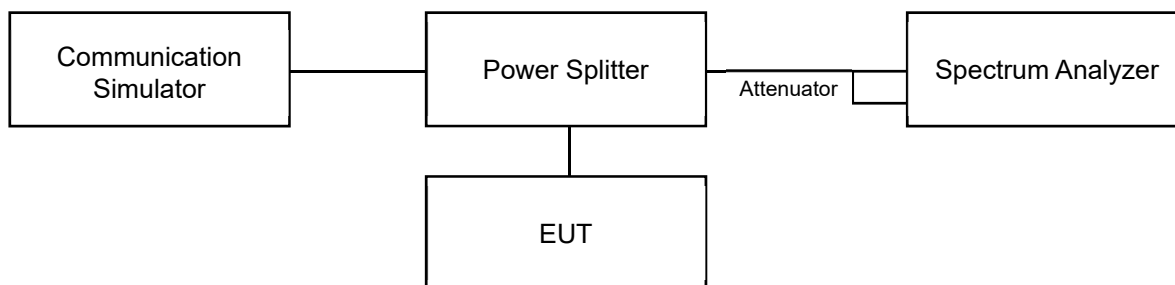
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- 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.
- 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.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- 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).
- 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.
- 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 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. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- e. If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported by providing plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



6.5.2 Test Procedure

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 3 channels: low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. 10 dB attenuation pad is connected with spectrum.
- The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- The fundamental frequency below 1 GHz, the spectrum set RBW $\geq$ 100 kHz, VBW $\geq$ 3 x RBW, Detector = Average.
- Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
For example: Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
- Record the maximum power value test plot.

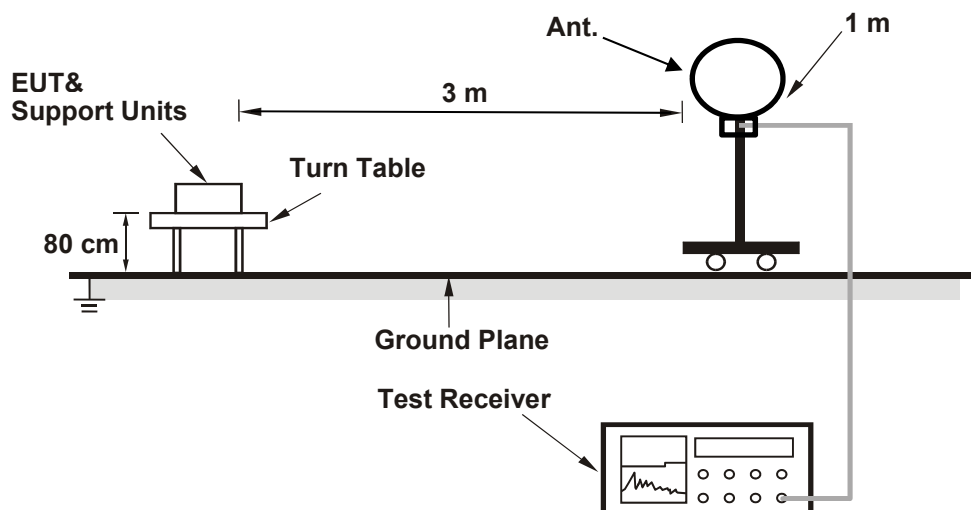
For Emission Mask:

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 2 channels: low and high operational frequency range.
- Accoding 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.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
For example: Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
- Record the maximum power value test plot.

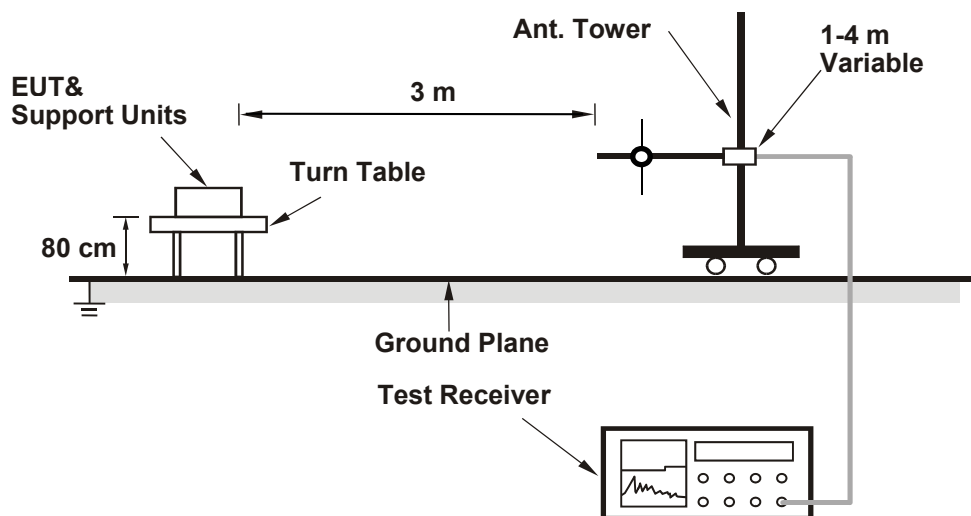
6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

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

- a. 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.
- b. 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.
- c. 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.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

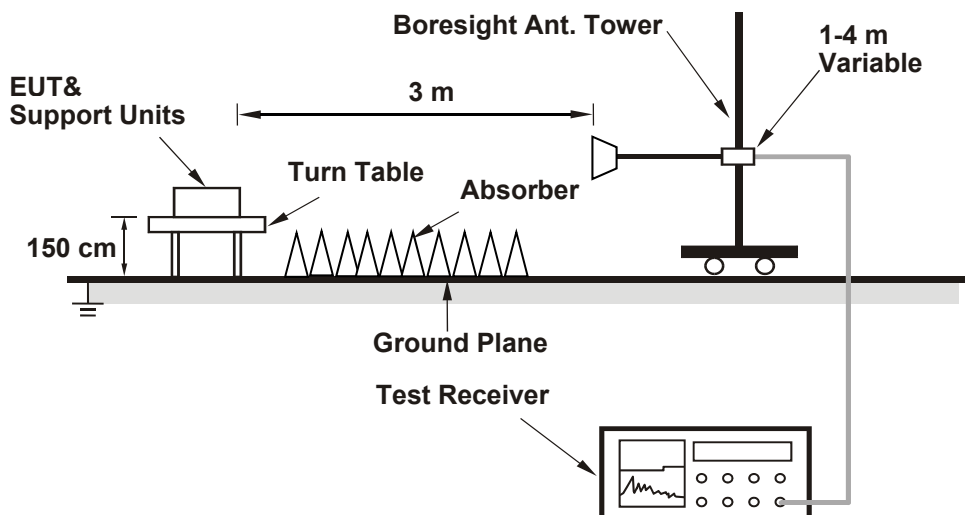
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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

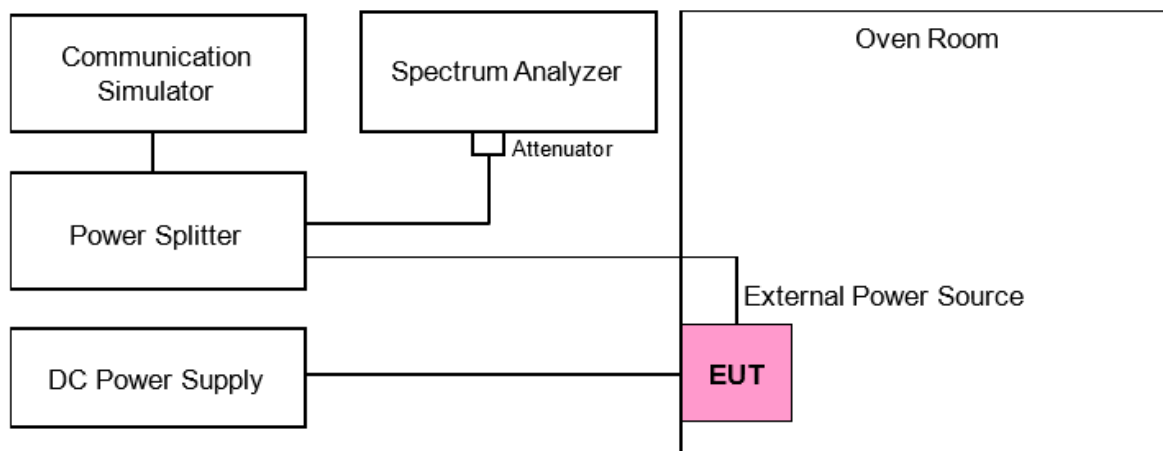
The EUT is configured to set data modulation and maximum power using WWAN technology.

- 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 ANSI C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

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

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

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

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

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

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	3.85 Vdc	Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao
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7.1.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18607	CH 18900	CH 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
QPSK	1	0	24.33	24.42	24.41
	1	2	24.23	24.42	24.35
	1	5	24.32	24.42	24.35
	3	0	23.28	23.32	23.40
	3	1	23.38	23.32	23.49
	3	3	23.30	23.47	23.54
	6	0	23.32	23.28	23.53
16QAM	1	0	23.34	23.45	23.41
	1	2	23.24	23.38	23.41
	1	5	23.32	23.39	23.30
	3	0	22.28	22.22	22.26
	3	1	22.27	22.32	22.46
	3	3	22.27	22.40	22.50
	6	0	22.26	22.26	22.47
64QAM	1	0	22.29	22.31	22.46
	1	2	22.29	22.31	22.20
	1	5	22.30	22.27	22.41
	3	0	21.23	21.26	21.36
	3	1	21.29	21.22	21.25
	3	3	21.11	21.24	21.29
	6	0	21.22	21.18	21.42
256QAM	1	0	19.12	19.39	19.31
	1	2	19.07	19.24	19.25
	1	5	19.26	19.39	19.22
	3	0	18.22	18.18	18.29
	3	1	18.35	18.16	18.41
	3	3	18.30	18.34	18.44
	6	0	18.20	18.15	18.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.28	24.42	25.20	26.34	33.01
16QAM	22.22	23.45	24.14	25.37	33.01
64QAM	21.11	22.46	23.03	24.38	33.01
256QAM	18.15	19.39	20.07	21.31	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18615	CH 18900	CH 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
QPSK	1	0	24.28	24.48	24.37
	1	7	24.30	24.40	24.33
	1	14	24.33	24.42	24.41
	8	0	23.35	23.28	23.43
	8	3	23.37	23.36	23.45
	8	7	23.31	23.44	23.53
	15	0	23.37	23.31	23.49
16QAM	1	0	23.33	23.46	23.43
	1	7	23.28	23.39	23.33
	1	14	23.31	23.41	23.35
	8	0	22.24	22.25	22.29
	8	3	22.28	22.34	22.39
	8	7	22.27	22.42	22.51
	15	0	22.29	22.30	22.41
64QAM	1	0	22.33	22.34	22.41
	1	7	22.23	22.30	22.24
	1	14	22.26	22.28	22.42
	8	0	21.18	21.27	21.39
	8	3	21.36	21.18	21.25
	8	7	21.15	21.24	21.27
	15	0	21.30	21.24	21.46
256QAM	1	0	19.08	19.35	19.33
	1	7	19.16	19.24	19.21
	1	14	19.22	19.37	19.20
	8	0	18.22	18.18	18.26
	8	3	18.41	18.14	18.35
	8	7	18.26	18.34	18.47
	15	0	18.14	18.13	18.40

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.28	24.48	25.20	26.40	33.01
16QAM	22.24	23.46	24.16	25.38	33.01
64QAM	21.15	22.42	23.07	24.34	33.01
256QAM	18.13	19.37	20.05	21.29	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18625	CH 18900	CH 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
QPSK	1	0	24.28	24.45	24.41
	1	12	24.23	24.41	24.33
	1	24	24.32	24.41	24.42
	12	0	23.32	23.32	23.34
	12	6	23.33	23.31	23.50
	12	13	23.35	23.39	23.48
	25	0	23.30	23.35	23.52
16QAM	1	0	23.31	23.50	23.42
	1	12	23.29	23.35	23.40
	1	24	23.35	23.43	23.30
	12	0	22.25	22.21	22.26
	12	6	22.24	22.28	22.47
	12	13	22.26	22.40	22.48
	25	0	22.26	22.23	22.40
64QAM	1	0	22.32	22.35	22.44
	1	12	22.26	22.33	22.20
	1	24	22.30	22.27	22.41
	12	0	21.23	21.30	21.38
	12	6	21.31	21.19	21.27
	12	13	21.09	21.29	21.33
	25	0	21.21	21.19	21.45
256QAM	1	0	19.13	19.41	19.37
	1	12	19.07	19.23	19.28
	1	24	19.27	19.37	19.18
	12	0	18.21	18.17	18.24
	12	6	18.40	18.15	18.40
	12	13	18.31	18.34	18.40
	25	0	18.13	18.12	18.41

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.30	24.45	25.22	26.37	33.01
16QAM	22.21	23.50	24.13	25.42	33.01
64QAM	21.09	22.44	23.01	24.36	33.01
256QAM	18.12	19.41	20.04	21.33	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18650	CH 18900	CH 19150
			1855 MHz	1880 MHz	1905 MHz
QPSK	1	0	24.33	24.47	24.36
	1	24	24.26	24.47	24.33
	1	49	24.30	24.43	24.34
	25	0	23.36	23.33	23.35
	25	12	23.34	23.34	23.47
	25	25	23.35	23.44	23.45
	50	0	23.36	23.35	23.47
16QAM	1	0	23.33	23.46	23.46
	1	24	23.27	23.35	23.33
	1	49	23.32	23.39	23.32
	25	0	22.27	22.18	22.35
	25	12	22.28	22.30	22.41
	25	25	22.30	22.44	22.47
	50	0	22.22	22.26	22.49
64QAM	1	0	22.27	22.27	22.45
	1	24	22.30	22.36	22.25
	1	49	22.32	22.24	22.37
	25	0	21.18	21.30	21.35
	25	12	21.29	21.19	21.25
	25	25	21.14	21.24	21.27
	50	0	21.30	21.17	21.44
256QAM	1	0	19.06	19.41	19.33
	1	24	19.12	19.22	19.23
	1	49	19.24	19.42	19.22
	25	0	18.24	18.17	18.33
	25	12	18.36	18.19	18.41
	25	25	18.30	18.34	18.47
	50	0	18.16	18.07	18.42

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.33	24.47	25.25	26.39	33.01
16QAM	22.18	23.46	24.10	25.38	33.01
64QAM	21.14	22.45	23.06	24.37	33.01
256QAM	18.07	19.42	19.99	21.34	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18675	CH 18900	CH 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
QPSK	1	0	24.30	24.48	24.41
	1	37	24.30	24.41	24.33
	1	74	24.37	24.45	24.39
	36	0	23.29	23.31	23.35
	36	19	23.37	23.37	23.49
	36	39	23.29	23.44	23.48
	75	0	23.29	23.27	23.51
16QAM	1	0	23.28	23.47	23.42
	1	37	23.23	23.39	23.40
	1	74	23.33	23.41	23.34
	36	0	22.29	22.23	22.34
	36	19	22.31	22.25	22.40
	36	39	22.33	22.38	22.53
	75	0	22.22	22.30	22.48
64QAM	1	0	22.30	22.35	22.44
	1	37	22.25	22.31	22.17
	1	74	22.29	22.28	22.38
	36	0	21.25	21.28	21.40
	36	19	21.32	21.15	21.28
	36	39	21.12	21.30	21.31
	75	0	21.26	21.20	21.43
256QAM	1	0	19.15	19.42	19.31
	1	37	19.14	19.22	19.22
	1	74	19.25	19.36	19.26
	36	0	18.22	18.14	18.33
	36	19	18.35	18.12	18.35
	36	39	18.27	18.28	18.47
	75	0	18.15	18.10	18.43

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.27	24.48	25.19	26.40	33.01
16QAM	22.22	23.47	24.14	25.39	33.01
64QAM	21.12	22.44	23.04	24.36	33.01
256QAM	18.10	19.42	20.02	21.34	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18700	CH 18900	CH 19100
			1860 MHz	1880 MHz	1900 MHz
QPSK	1	0	24.35	24.50	24.46
	1	50	24.32	24.49	24.42
	1	99	24.38	24.47	24.43
	50	0	23.37	23.35	23.44
	50	25	23.42	23.38	23.51
	50	50	23.36	23.48	23.55
	100	0	23.38	23.36	23.54
16QAM	1	0	23.36	23.53	23.48
	1	50	23.33	23.41	23.43
	1	99	23.37	23.44	23.36
	50	0	22.30	22.26	22.36
	50	25	22.33	22.35	22.48
	50	50	22.35	22.47	22.57
	100	0	22.30	22.32	22.50
64QAM	1	0	22.35	22.36	22.48
	1	50	22.32	22.39	22.27
	1	99	22.36	22.32	22.43
	50	0	21.27	21.35	21.41
	50	25	21.37	21.23	21.32
	50	50	21.17	21.31	21.35
	100	0	21.31	21.27	21.48
256QAM	1	0	19.16	19.43	19.40
	1	50	19.17	19.29	19.31
	1	99	19.29	19.43	19.27
	50	0	18.31	18.22	18.34
	50	25	18.44	18.22	18.42
	50	50	18.34	18.38	18.48
	100	0	18.21	18.16	18.44

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.35	24.50	25.27	26.42	33.01
16QAM	22.26	23.53	24.18	25.45	33.01
64QAM	21.17	22.48	23.09	24.40	33.01
256QAM	18.16	19.43	20.08	21.35	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20407	CH 20525	CH 20643
			824.7 MHz	836.5 MHz	848.3 MHz
QPSK	1	0	24.24	24.39	24.44
	1	2	24.25	24.38	24.39
	1	5	24.20	24.43	24.26
	3	0	23.26	23.25	23.24
	3	1	23.32	23.25	23.34
	3	3	23.31	23.38	23.31
	6	0	23.34	23.19	23.33
16QAM	1	0	23.18	23.41	23.35
	1	2	23.34	23.35	23.46
	1	5	23.25	23.44	23.27
	3	0	22.17	22.22	22.17
	3	1	22.31	22.15	22.21
	3	3	22.17	22.26	22.35
	6	0	22.21	22.17	22.31
64QAM	1	0	22.16	22.34	22.33
	1	2	22.08	22.40	22.36
	1	5	22.05	22.41	22.25
	3	0	21.18	21.10	21.18
	3	1	21.09	21.10	21.19
	3	3	21.08	21.26	21.22
	6	0	21.15	20.97	21.28
256QAM	1	0	19.10	19.38	19.27
	1	2	19.25	19.24	19.46
	1	5	19.20	19.24	19.20
	3	0	18.14	18.09	18.03
	3	1	18.30	18.03	18.20
	3	3	18.21	18.16	18.17
	6	0	18.21	18.00	18.30

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.19	24.44	17.09	18.34	38.45
16QAM	22.15	23.46	16.05	17.36	38.45
64QAM	20.97	22.41	14.87	16.31	38.45
256QAM	18.00	19.46	11.90	13.36	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20415	CH 20525	CH 20635
			825.5 MHz	836.5 MHz	847.5 MHz
QPSK	1	0	24.24	24.45	24.44
	1	7	24.25	24.44	24.40
	1	14	24.28	24.42	24.29
	8	0	23.27	23.22	23.25
	8	3	23.33	23.19	23.36
	8	7	23.26	23.30	23.33
	15	0	23.29	23.17	23.30
16QAM	1	0	23.25	23.48	23.36
	1	7	23.37	23.38	23.46
	1	14	23.33	23.43	23.22
	8	0	22.24	22.19	22.19
	8	3	22.32	22.11	22.27
	8	7	22.19	22.29	22.35
	15	0	22.24	22.13	22.26
64QAM	1	0	22.10	22.35	22.24
	1	7	22.03	22.41	22.41
	1	14	22.02	22.38	22.20
	8	0	21.19	21.16	21.22
	8	3	21.18	21.12	21.22
	8	7	21.09	21.32	21.24
	15	0	21.12	20.93	21.24
256QAM	1	0	19.07	19.35	19.26
	1	7	19.29	19.29	19.41
	1	14	19.25	19.23	19.24
	8	0	18.18	18.10	18.00
	8	3	18.31	18.06	18.19
	8	7	18.13	18.17	18.15
	15	0	18.16	18.08	18.24

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.17	24.45	17.07	18.35	38.45
16QAM	22.11	23.48	16.01	17.38	38.45
64QAM	20.93	22.41	14.83	16.31	38.45
256QAM	18.00	19.41	11.90	13.31	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20425	CH 20525	CH 20625
			826.5 MHz	836.5 MHz	846.5 MHz
QPSK	1	0	24.19	24.42	24.39
	1	12	24.29	24.38	24.43
	1	24	24.21	24.41	24.27
	12	0	23.32	23.27	23.24
	12	6	23.29	23.24	23.29
	12	13	23.27	23.37	23.28
	25	0	23.30	23.23	23.35
16QAM	1	0	23.19	23.43	23.32
	1	12	23.33	23.34	23.42
	1	24	23.25	23.39	23.29
	12	0	22.21	22.25	22.18
	12	6	22.32	22.12	22.29
	12	13	22.16	22.29	22.30
	25	0	22.27	22.19	22.29
64QAM	1	0	22.15	22.31	22.33
	1	12	22.06	22.36	22.44
	1	24	22.05	22.40	22.20
	12	0	21.27	21.15	21.25
	12	6	21.09	21.15	21.23
	12	13	21.08	21.24	21.29
	25	0	21.16	20.95	21.23
256QAM	1	0	19.10	19.32	19.29
	1	12	19.24	19.23	19.46
	1	24	19.21	19.18	19.24
	12	0	18.10	18.07	18.00
	12	6	18.25	18.04	18.18
	12	13	18.16	18.13	18.16
	25	0	18.17	18.01	18.25

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.23	24.43	17.13	18.33	38.45
16QAM	22.12	23.43	16.02	17.33	38.45
64QAM	20.95	22.44	14.85	16.34	38.45
256QAM	18.00	19.46	11.90	13.36	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20450	CH 20525	CH 20600
			829 MHz	836.5 MHz	844 MHz
QPSK	1	0	24.27	24.49	24.45
	1	24	24.33	24.46	24.48
	1	49	24.30	24.47	24.36
	25	0	23.33	23.28	23.29
	25	12	23.37	23.26	23.39
	25	25	23.33	23.39	23.35
	50	0	23.35	23.26	23.37
16QAM	1	0	23.27	23.51	23.40
	1	24	23.38	23.40	23.50
	1	49	23.34	23.47	23.31
	25	0	22.25	22.26	22.23
	25	12	22.39	22.17	22.31
	25	25	22.26	22.32	22.39
	50	0	22.31	22.20	22.36
64QAM	1	0	22.18	22.37	22.34
	1	24	22.12	22.45	22.46
	1	49	22.08	22.43	22.26
	25	0	21.28	21.20	21.26
	25	12	21.19	21.19	21.28
	25	25	21.18	21.34	21.32
	50	0	21.19	21.02	21.33
256QAM	1	0	19.12	19.41	19.35
	1	24	19.32	19.33	19.48
	1	49	19.26	19.28	19.30
	25	0	18.20	18.16	18.06
	25	12	18.32	18.13	18.24
	25	25	18.23	18.21	18.25
	50	0	18.25	18.09	18.34

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.26	24.49	17.16	18.39	38.45
16QAM	22.17	23.51	16.07	17.41	38.45
64QAM	21.02	22.46	14.92	16.36	38.45
256QAM	18.06	19.48	11.96	13.38	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.3 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20775	CH 21100	CH 21425
			2502.5 MHz	2535 MHz	2567.5 MHz
QPSK	1	0	24.33	24.37	24.37
	1	12	24.26	23.98	24.26
	1	24	24.30	24.29	24.33
	12	0	23.37	23.17	23.26
	12	6	23.32	23.34	23.35
	12	13	23.18	23.12	23.22
	25	0	23.25	23.23	23.37
16QAM	1	0	23.37	23.39	23.38
	1	12	23.16	23.00	23.21
	1	24	23.34	23.28	23.33
	12	0	22.36	22.01	22.26
	12	6	22.18	22.33	22.38
	12	13	22.25	21.98	22.25
	25	0	22.18	22.12	22.30
64QAM	1	0	22.31	22.37	22.14
	1	12	22.21	22.04	22.02
	1	24	22.25	22.16	22.15
	12	0	21.11	21.05	21.31
	12	6	21.24	21.30	21.20
	12	13	20.98	21.01	21.17
	25	0	21.06	21.06	21.19
256QAM	1	0	19.33	19.24	19.24
	1	12	19.13	18.90	18.94
	1	24	19.15	19.19	19.23
	12	0	18.12	17.89	18.24
	12	6	18.17	18.18	18.35
	12	13	18.06	18.05	18.00
	25	0	18.14	18.15	18.00

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.12	24.37	26.27	27.52	33.01
16QAM	21.98	23.39	25.13	26.54	33.01
64QAM	20.98	22.37	24.13	25.52	33.01
256QAM	17.89	19.33	21.04	22.48	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20800	CH 21100	CH 21400
			2505 MHz	2535 MHz	2565 MHz
QPSK	1	0	24.40	24.35	24.35
	1	24	24.29	23.99	24.24
	1	49	24.29	24.34	24.32
	25	0	23.33	23.14	23.31
	25	12	23.27	23.33	23.34
	25	25	23.19	23.11	23.28
	50	0	23.28	23.16	23.28
16QAM	1	0	23.36	23.42	23.34
	1	24	23.14	23.04	23.24
	1	49	23.30	23.34	23.28
	25	0	22.34	22.03	22.18
	25	12	22.19	22.33	22.38
	25	25	22.26	22.03	22.19
	50	0	22.19	22.15	22.25
64QAM	1	0	22.23	22.37	22.20
	1	24	22.23	21.96	22.00
	1	49	22.20	22.16	22.14
	25	0	21.12	21.14	21.30
	25	12	21.18	21.30	21.17
	25	25	21.05	21.07	21.21
	50	0	21.09	21.13	21.23
256QAM	1	0	19.30	19.28	19.30
	1	24	19.20	18.92	18.98
	1	49	19.11	19.22	19.28
	25	0	18.10	17.95	18.17
	25	12	18.15	18.20	18.34
	25	25	18.12	18.04	17.98
	50	0	18.21	18.12	18.02

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.11	24.40	26.26	27.55	33.01
16QAM	22.03	23.42	25.18	26.57	33.01
64QAM	21.05	22.37	24.20	25.52	33.01
256QAM	17.95	19.30	21.10	22.45	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20825	CH 21100	CH 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
QPSK	1	0	24.41	24.38	24.33
	1	37	24.24	23.99	24.25
	1	74	24.32	24.31	24.31
	36	0	23.31	23.10	23.27
	36	19	23.29	23.36	23.35
	36	39	23.20	23.12	23.19
	75	0	23.25	23.20	23.35
16QAM	1	0	23.41	23.35	23.40
	1	37	23.23	23.06	23.23
	1	74	23.35	23.33	23.37
	36	0	22.32	22.03	22.20
	36	19	22.20	22.25	22.46
	36	39	22.24	21.98	22.25
	75	0	22.24	22.14	22.24
64QAM	1	0	22.28	22.31	22.16
	1	37	22.24	22.02	22.01
	1	74	22.20	22.16	22.19
	36	0	21.17	21.14	21.22
	36	19	21.15	21.28	21.20
	36	39	21.05	21.03	21.14
	75	0	21.08	21.08	21.27
256QAM	1	0	19.28	19.22	19.24
	1	37	19.14	18.87	18.98
	1	74	19.14	19.27	19.23
	36	0	18.12	17.92	18.23
	36	19	18.12	18.18	18.28
	36	39	18.11	18.00	17.98
	75	0	18.19	18.14	18.04

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.10	24.41	26.25	27.56	33.01
16QAM	21.98	23.41	25.13	26.56	33.01
64QAM	21.03	22.31	24.18	25.46	33.01
256QAM	17.92	19.28	21.07	22.43	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 7, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20850	CH 21100	CH 21350
			2510 MHz	2535 MHz	2560 MHz
QPSK	1	0	24.42	24.44	24.40
	1	50	24.31	24.06	24.28
	1	99	24.37	24.39	24.39
	50	0	23.41	23.19	23.36
	50	25	23.35	23.37	23.44
	50	50	23.28	23.14	23.29
	100	0	23.32	23.25	23.38
16QAM	1	0	23.43	23.44	23.42
	1	50	23.24	23.10	23.27
	1	99	23.40	23.38	23.38
	50	0	22.38	22.11	22.28
	50	25	22.26	22.34	22.48
	50	50	22.33	22.08	22.27
	100	0	22.26	22.17	22.33
64QAM	1	0	22.33	22.38	22.24
	1	50	22.25	22.06	22.08
	1	99	22.27	22.24	22.23
	50	0	21.18	21.15	21.32
	50	25	21.25	21.34	21.27
	50	50	21.08	21.09	21.23
	100	0	21.15	21.15	21.29
256QAM	1	0	19.38	19.30	19.32
	1	50	19.23	18.93	19.00
	1	99	19.19	19.28	19.33
	50	0	18.20	17.98	18.27
	50	25	18.22	18.28	18.36
	50	50	18.16	18.07	18.04
	100	0	18.24	18.17	18.10

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.14	24.44	26.29	27.59	33.01
16QAM	22.08	23.44	25.23	26.59	33.01
64QAM	21.08	22.38	24.23	25.53	33.01
256QAM	17.98	19.38	21.13	22.53	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23017	CH 23095	CH 23173
			699.7 MHz	707.5 MHz	715.3 MHz
QPSK	1	0	24.27	24.38	24.32
	1	2	24.24	24.31	24.22
	1	5	24.19	24.16	24.31
	3	0	23.29	23.91	23.19
	3	1	23.21	23.23	23.31
	3	3	23.08	23.26	23.18
	6	0	23.30	23.27	23.32
16QAM	1	0	23.30	23.46	23.28
	1	2	23.29	23.27	23.24
	1	5	23.20	23.12	23.16
	3	0	22.20	22.93	22.25
	3	1	22.21	22.12	22.20
	3	3	22.06	22.24	22.16
	6	0	22.23	22.20	22.32
64QAM	1	0	22.16	22.35	22.07
	1	2	22.09	22.24	22.05
	1	5	22.08	22.03	22.19
	3	0	21.05	21.93	21.05
	3	1	21.14	21.08	21.06
	3	3	21.08	21.23	20.95
	6	0	21.16	21.07	21.20
256QAM	1	0	19.23	19.31	19.23
	1	2	19.15	19.12	19.21
	1	5	19.05	18.98	19.27
	3	0	18.10	18.82	18.06
	3	1	18.08	18.01	18.18
	3	3	18.04	18.15	18.03
	6	0	18.11	18.27	18.34

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.38	14.56	15.86	34.77
16QAM	22.06	23.46	13.54	14.94	34.77
64QAM	20.95	22.35	12.43	13.83	34.77
256QAM	18.01	19.31	9.49	10.79	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23025	CH 23095	CH 23165
			700.5 MHz	707.5 MHz	714.5 MHz
QPSK	1	0	24.30	24.38	24.38
	1	7	24.27	24.30	24.19
	1	14	24.20	24.14	24.25
	8	0	23.23	23.94	23.14
	8	3	23.26	23.20	23.26
	8	7	23.13	23.26	23.15
	15	0	23.33	23.20	23.33
16QAM	1	0	23.28	23.49	23.27
	1	7	23.26	23.18	23.21
	1	14	23.23	23.13	23.18
	8	0	22.19	22.98	22.24
	8	3	22.20	22.09	22.21
	8	7	22.07	22.33	22.11
	15	0	22.19	22.20	22.34
64QAM	1	0	22.14	22.34	22.08
	1	7	22.10	22.21	22.09
	1	14	22.01	22.07	22.19
	8	0	21.04	21.87	21.10
	8	3	21.12	21.12	21.10
	8	7	21.02	21.25	20.98
	15	0	21.17	21.12	21.24
256QAM	1	0	19.23	19.38	19.22
	1	7	19.23	19.16	19.20
	1	14	18.99	19.02	19.22
	8	0	18.04	18.76	18.09
	8	3	18.06	17.97	18.13
	8	7	18.02	18.17	17.99
	15	0	18.04	18.25	18.36

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.13	24.38	14.61	15.86	34.77
16QAM	22.07	23.49	13.55	14.97	34.77
64QAM	20.98	22.34	12.46	13.82	34.77
256QAM	17.97	19.38	9.45	10.86	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23035	CH 23095	CH 23155
			701.5 MHz	707.5 MHz	713.5 MHz
QPSK	1	0	24.31	24.37	24.30
	1	12	24.28	24.29	24.16
	1	24	24.19	24.14	24.29
	12	0	23.25	23.90	23.19
	12	6	23.22	23.26	23.26
	12	13	23.08	23.26	23.23
	25	0	23.30	23.24	23.31
16QAM	1	0	23.27	23.48	23.29
	1	12	23.28	23.27	23.21
	1	24	23.17	23.07	23.18
	12	0	22.27	22.92	22.17
	12	6	22.28	22.11	22.18
	12	13	22.11	22.31	22.09
	25	0	22.23	22.14	22.33
64QAM	1	0	22.12	22.43	22.12
	1	12	22.09	22.20	22.12
	1	24	22.03	22.02	22.16
	12	0	21.06	21.87	21.13
	12	6	21.14	21.12	21.03
	12	13	21.02	21.21	20.96
	25	0	21.20	21.09	21.25
256QAM	1	0	19.24	19.37	19.21
	1	12	19.19	19.16	19.16
	1	24	19.03	19.02	19.27
	12	0	18.02	18.77	18.09
	12	6	18.03	18.01	18.12
	12	13	18.03	18.22	18.00
	25	0	18.07	18.32	18.30

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.37	14.56	15.85	34.77
16QAM	22.09	23.48	13.57	14.96	34.77
64QAM	20.96	22.43	12.44	13.91	34.77
256QAM	18.00	19.37	9.48	10.85	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23060	CH 23095	CH 23130
			704 MHz	707.5 MHz	711 MHz
QPSK	1	0	24.36	24.46	24.40
	1	24	24.31	24.37	24.26
	1	49	24.21	24.22	24.34
	25	0	23.30	23.98	23.22
	25	12	23.27	23.28	23.34
	25	25	23.18	23.34	23.25
	50	0	23.35	23.29	23.37
16QAM	1	0	23.33	23.51	23.31
	1	24	23.31	23.28	23.31
	1	49	23.25	23.17	23.25
	25	0	22.29	23.01	22.26
	25	12	22.29	22.19	22.26
	25	25	22.15	22.34	22.17
	50	0	22.27	22.24	22.39
64QAM	1	0	22.22	22.44	22.17
	1	24	22.11	22.25	22.13
	1	49	22.11	22.11	22.23
	25	0	21.11	21.97	21.15
	25	12	21.15	21.18	21.13
	25	25	21.11	21.30	21.05
	50	0	21.24	21.15	21.29
256QAM	1	0	19.31	19.39	19.29
	1	24	19.25	19.22	19.22
	1	49	19.06	19.08	19.30
	25	0	18.11	18.84	18.16
	25	12	18.13	18.05	18.19
	25	25	18.07	18.23	18.07
	50	0	18.13	18.35	18.38

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.18	24.46	14.66	15.94	34.77
16QAM	22.15	23.51	13.63	14.99	34.77
64QAM	21.05	22.44	12.53	13.92	34.77
256QAM	18.05	19.39	9.53	10.87	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.5 LTE Band 13

LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23205	CH 23230	CH 23255
			779.5 MHz	782 MHz	784.5 MHz
QPSK	1	0	23.93	24.06	23.98
	1	12	23.90	23.99	23.94
	1	24	23.80	23.92	23.80
	12	0	22.98	23.09	23.02
	12	6	22.97	23.03	22.97
	12	13	22.91	22.98	22.95
	25	0	22.88	22.90	22.96
16QAM	1	0	23.06	23.04	22.97
	1	12	22.86	22.94	22.85
	1	24	22.87	22.96	22.81
	12	0	21.99	22.06	21.97
	12	6	21.98	21.98	22.00
	12	13	21.88	21.91	21.83
	25	0	21.89	22.01	21.94
64QAM	1	0	22.17	22.19	22.15
	1	12	22.04	22.17	22.08
	1	24	22.01	22.08	22.05
	12	0	21.18	21.23	21.15
	12	6	21.23	21.17	21.15
	12	13	20.99	21.16	21.06
	25	0	21.15	21.18	21.14
256QAM	1	0	19.63	19.66	19.62
	1	12	19.56	19.60	19.51
	1	24	19.55	19.61	19.55
	12	0	18.68	18.67	18.64
	12	6	18.56	18.63	18.52
	12	13	18.55	18.56	18.56
	25	0	18.47	18.62	18.52

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.88	24.06	15.76	16.94	34.77
16QAM	21.83	23.06	14.71	15.94	34.77
64QAM	20.99	22.19	13.87	15.07	34.77
256QAM	18.47	19.66	11.35	12.54	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 13, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 23230
			782 MHz
QPSK	1	0	24.07
	1	24	24
	1	49	23.94
	25	0	23.13
	25	12	23.06
	25	25	23.01
	50	0	22.99
16QAM	1	0	23.10
	1	24	23.01
	1	49	22.97
	25	0	22.08
	25	12	22.05
	25	25	22.01
	50	0	22.03
64QAM	1	0	22.27
	1	24	22.20
	1	49	22.17
	25	0	21.31
	25	12	21.27
	25	25	21.17
	50	0	21.23
256QAM	1	0	19.74
	1	24	19.61
	1	49	19.66
	25	0	18.76
	25	12	18.68
	25	25	18.64
	50	0	18.65

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.99	24.07	15.87	16.95	34.77
16QAM	22.01	23.1	14.89	15.98	34.77
64QAM	21.17	22.27	14.05	15.15	34.77
256QAM	18.64	19.74	11.52	12.62	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.6 LTE Band 14

LTE Band 14, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23305	CH 23330	CH 23355
			790.5 MHz	793 MHz	795.5 MHz
QPSK	1	0	24.26	24.35	24.31
	1	12	24.22	24.32	24.26
	1	24	24.24	24.30	24.27
	12	0	23.32	23.40	23.31
	12	6	23.31	23.32	23.25
	12	13	23.31	23.32	23.25
	25	0	23.41	23.42	23.32
16QAM	1	0	23.24	23.32	23.23
	1	12	23.31	23.39	23.33
	1	24	23.26	23.28	23.19
	12	0	22.36	22.39	22.38
	12	6	22.23	22.26	22.23
	12	13	22.37	22.38	22.28
	25	0	22.30	22.39	22.31
64QAM	1	0	22.22	22.29	22.28
	1	12	22.22	22.31	22.30
	1	24	22.08	22.18	22.13
	12	0	21.24	21.28	21.27
	12	6	21.11	21.21	21.16
	12	13	21.25	21.26	21.22
	25	0	21.12	21.17	21.13
256QAM	1	0	19.13	19.20	19.15
	1	12	18.94	19.04	18.97
	1	24	19.15	19.23	19.16
	12	0	18.13	18.17	18.12
	12	6	18.18	18.19	18.16
	12	13	18.27	18.31	18.26
	25	0	18.10	18.19	18.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.35	16.13	17.23	34.77
16QAM	22.23	23.39	15.11	16.27	34.77
64QAM	21.11	22.31	13.99	15.19	34.77
256QAM	18.10	19.23	10.98	12.11	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 14, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 23330
			793 MHz
QPSK	1	0	24.45
	1	24	24.41
	1	49	24.37
	25	0	23.41
	25	12	23.33
	25	25	23.42
	50	0	23.44
16QAM	1	0	23.38
	1	24	23.43
	1	49	23.35
	25	0	22.44
	25	12	22.30
	25	25	22.41
	50	0	22.47
64QAM	1	0	22.36
	1	24	22.34
	1	49	22.28
	25	0	21.34
	25	12	21.29
	25	25	21.31
	50	0	21.22
256QAM	1	0	19.28
	1	24	19.14
	1	49	19.25
	25	0	18.22
	25	12	18.29
	25	25	18.37
	50	0	18.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.33	24.45	16.21	17.33	34.77
16QAM	22.3	23.43	15.18	16.31	34.77
64QAM	21.22	22.36	14.1	15.24	34.77
256QAM	18.22	19.28	11.1	12.16	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.7 LTE Band 26 (814 MHz ~ 824 MHz)

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26697	CH 26740	CH 26783
			814.7 MHz	819 MHz	823.3 MHz
QPSK	1	0	24.39	24.32	24.30
	1	2	24.24	24.31	24.14
	1	5	24.12	24.19	24.09
	3	0	23.00	23.11	23.03
	3	1	23.18	23.13	23.04
	3	3	23.18	23.19	23.26
	6	0	23.18	23.23	23.09
16QAM	1	0	23.19	23.26	23.21
	1	2	23.12	23.23	23.16
	1	5	23.14	23.22	23.20
	3	0	22.10	22.18	22.07
	3	1	22.08	22.13	22.12
	3	3	22.15	22.27	22.25
	6	0	22.15	22.27	22.24
64QAM	1	0	22.11	22.15	22.06
	1	2	22.08	22.13	22.14
	1	5	22.14	22.27	22.20
	3	0	20.95	21.02	20.89
	3	1	20.92	20.99	20.95
	3	3	21.16	21.20	21.12
	6	0	20.86	21.00	20.93
256QAM	1	0	19.17	19.26	19.21
	1	2	19.14	19.28	19.24
	1	5	18.88	19.01	18.96
	3	0	17.89	17.90	17.92
	3	1	18.02	18.08	17.97
	3	3	17.90	18.03	17.95
	6	0	18.12	18.13	18.07

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.00	24.39	16.90	18.29	50
16QAM	22.07	23.26	15.97	17.16	50
64QAM	20.86	22.27	14.76	16.17	50
256QAM	17.89	19.28	11.79	13.18	50

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26705	CH 26740	CH 26775
			815.5 MHz	819 MHz	822.5 MHz
QPSK	1	0	24.37	24.41	24.33
	1	7	24.19	24.24	24.15
	1	14	24.06	24.19	24.10
	8	0	23.03	23.13	23.07
	8	3	23.17	23.10	23.08
	8	7	23.19	23.24	23.20
	15	0	23.15	23.20	23.15
16QAM	1	0	23.21	23.29	23.18
	1	7	23.18	23.26	23.19
	1	14	23.08	23.24	23.20
	8	0	22.09	22.11	21.99
	8	3	22.09	22.17	22.06
	8	7	22.17	22.29	22.29
	15	0	22.15	22.31	22.18
64QAM	1	0	22.12	22.21	22.07
	1	7	22.12	22.14	22.16
	1	14	22.21	22.27	22.23
	8	0	20.95	21.02	20.96
	8	3	20.95	20.97	20.97
	8	7	21.17	21.19	21.16
	15	0	20.85	20.97	20.85
256QAM	1	0	19.11	19.22	19.13
	1	7	19.17	19.28	19.25
	1	14	18.93	18.98	18.91
	8	0	17.94	17.91	17.87
	8	3	17.95	18.08	18.02
	8	7	17.84	18.02	17.88
	15	0	18.06	18.18	18.07

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.03	24.41	16.93	18.31	50
16QAM	21.99	23.29	15.89	17.19	50
64QAM	20.85	22.27	14.75	16.17	50
256QAM	17.84	19.28	11.74	13.18	50

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26715	CH 26740	CH 26765
			816.5 MHz	819 MHz	821.5 MHz
QPSK	1	0	24.41	24.42	24.37
	1	12	24.26	24.32	24.23
	1	24	24.15	24.22	24.17
	12	0	23.08	23.14	23.10
	12	6	23.19	23.20	23.10
	12	13	23.22	23.29	23.28
	25	0	23.20	23.28	23.18
16QAM	1	0	23.23	23.31	23.23
	1	12	23.22	23.27	23.21
	1	24	23.17	23.27	23.25
	12	0	22.18	22.19	22.09
	12	6	22.16	22.20	22.14
	12	13	22.25	22.32	22.31
	25	0	22.25	22.35	22.27
64QAM	1	0	22.21	22.22	22.15
	1	12	22.18	22.23	22.22
	1	24	22.23	22.28	22.24
	12	0	20.99	21.05	20.98
	12	6	20.98	21.02	20.98
	12	13	21.20	21.23	21.17
	25	0	20.95	21.05	20.95
256QAM	1	0	19.21	19.28	19.22
	1	12	19.24	19.29	19.26
	1	24	18.98	19.06	18.99
	12	0	17.97	18.00	17.96
	12	6	18.05	18.13	18.03
	12	13	17.94	18.04	17.96
	25	0	18.14	18.19	18.16

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.42	16.98	18.32	50
16QAM	22.09	23.31	15.99	17.21	50
64QAM	20.95	22.28	14.85	16.18	50
256QAM	17.94	19.29	11.84	13.19	50

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 26740
			819 MHz
QPSK	1	0	24.45
	1	24	24.37
	1	49	24.32
	25	0	23.24
	25	12	23.29
	25	25	23.36
	50	0	23.33
16QAM	1	0	23.37
	1	24	23.35
	1	49	23.34
	25	0	22.22
	25	12	22.28
	25	25	22.41
	50	0	22.38
64QAM	1	0	22.31
	1	24	22.30
	1	49	22.29
	25	0	21.07
	25	12	21.12
	25	25	21.29
	50	0	21.13
256QAM	1	0	19.36
	1	24	19.31
	1	49	19.12
	25	0	18.03
	25	12	18.15
	25	25	18.10
	50	0	18.28

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.24	24.45	17.14	18.35	50
16QAM	22.22	23.37	16.12	17.27	50
64QAM	21.07	22.31	14.97	16.21	50
256QAM	18.03	19.36	11.93	13.26	50

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.8 LTE Band 26 (824 MHz ~ 849 MHz)

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26797	CH 26915	CH 27033
			824.7 MHz	836.5 MHz	848.3 MHz
QPSK	1	0	24.34	24.43	24.27
	1	2	24.36	24.38	24.24
	1	5	24.28	24.33	24.27
	3	0	23.18	23.18	23.12
	3	1	23.03	23.15	23.09
	3	3	23.17	23.14	23.15
	6	0	23.13	23.16	23.27
16QAM	1	0	23.37	23.42	23.26
	1	2	23.39	23.27	23.28
	1	5	23.28	23.35	23.24
	3	0	22.11	22.22	22.11
	3	1	22.05	22.16	22.07
	3	3	22.19	22.11	22.14
	6	0	22.09	22.21	22.12
64QAM	1	0	22.23	22.35	22.15
	1	2	22.13	22.34	22.16
	1	5	22.16	22.34	22.15
	3	0	21.16	21.21	20.98
	3	1	20.94	20.99	21.09
	3	3	21.10	21.03	21.08
	6	0	21.04	21.09	21.11
256QAM	1	0	19.29	19.44	19.19
	1	2	19.19	19.16	19.26
	1	5	19.18	19.40	19.12
	3	0	17.87	18.17	18.10
	3	1	17.98	18.07	17.94
	3	3	18.25	18.11	17.93
	6	0	18.11	18.10	18.15

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.03	24.43	16.93	18.33	38.45
16QAM	22.05	23.42	15.95	17.32	38.45
64QAM	20.94	22.35	14.84	16.25	38.45
256QAM	17.87	19.44	11.77	13.34	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26805	CH 26915	CH 27025
			825.5 MHz	836.5 MHz	847.5 MHz
QPSK	1	0	24.41	24.41	24.31
	1	7	24.35	24.35	24.29
	1	14	24.28	24.37	24.25
	8	0	23.15	23.16	23.12
	8	3	23.08	23.14	23.13
	8	7	23.24	23.15	23.16
	15	0	23.18	23.14	23.27
16QAM	1	0	23.39	23.34	23.21
	1	7	23.35	23.32	23.28
	1	14	23.31	23.30	23.22
	8	0	22.16	22.19	22.14
	8	3	22.07	22.21	22.08
	8	7	22.12	22.12	22.15
	15	0	22.06	22.16	22.20
64QAM	1	0	22.18	22.32	22.23
	1	7	22.18	22.30	22.19
	1	14	22.09	22.36	22.19
	8	0	21.21	21.16	20.93
	8	3	20.98	20.95	21.08
	8	7	21.11	21.00	21.08
	15	0	21.06	21.17	21.17
256QAM	1	0	19.27	19.46	19.13
	1	7	19.26	19.23	19.34
	1	14	19.22	19.31	19.14
	8	0	17.90	18.15	18.13
	8	3	17.95	18.02	17.86
	8	7	18.22	18.14	17.92
	15	0	18.17	18.11	18.19

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.41	16.98	18.31	38.45
16QAM	22.06	23.39	15.96	17.29	38.45
64QAM	20.93	22.36	14.83	16.26	38.45
256QAM	17.86	19.46	11.76	13.36	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26815	CH 26915	CH 27015
			826.5 MHz	836.5 MHz	846.5 MHz
QPSK	1	0	24.36	24.45	24.34
	1	12	24.38	24.37	24.26
	1	24	24.21	24.36	24.29
	12	0	23.09	23.21	23.09
	12	6	23.04	23.15	23.07
	12	13	23.17	23.20	23.09
	25	0	23.15	23.11	23.22
16QAM	1	0	23.41	23.37	23.22
	1	12	23.33	23.28	23.25
	1	24	23.22	23.30	23.29
	12	0	22.11	22.18	22.11
	12	6	22.05	22.14	22.10
	12	13	22.11	22.04	22.13
	25	0	22.12	22.22	22.12
64QAM	1	0	22.17	22.37	22.16
	1	12	22.19	22.25	22.22
	1	24	22.11	22.40	22.21
	12	0	21.16	21.15	20.95
	12	6	20.97	20.94	21.13
	12	13	21.09	21.03	21.00
	25	0	21.09	21.15	21.18
256QAM	1	0	19.25	19.44	19.13
	1	12	19.23	19.19	19.33
	1	24	19.25	19.38	19.14
	12	0	17.85	18.12	18.14
	12	6	17.98	18.06	17.93
	12	13	18.22	18.20	17.99
	25	0	18.16	18.05	18.19

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.04	24.45	16.94	18.35	38.45
16QAM	22.04	23.41	15.94	17.31	38.45
64QAM	20.94	22.4	14.84	16.3	38.45
256QAM	17.85	19.44	11.75	13.34	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26840	CH 26915	CH 26990
			829 MHz	836.5 MHz	844 MHz
QPSK	1	0	24.40	24.38	24.33
	1	24	24.33	24.42	24.33
	1	49	24.22	24.36	24.28
	25	0	23.17	23.22	23.17
	25	12	23.06	23.09	23.08
	25	25	23.21	23.17	23.14
	50	0	23.17	23.19	23.21
16QAM	1	0	23.36	23.36	23.20
	1	24	23.35	23.30	23.28
	1	49	23.28	23.30	23.25
	25	0	22.16	22.18	22.18
	25	12	22.11	22.14	22.07
	25	25	22.10	22.13	22.18
	50	0	22.07	22.19	22.12
64QAM	1	0	22.25	22.35	22.24
	1	24	22.13	22.28	22.16
	1	49	22.09	22.39	22.15
	25	0	21.13	21.16	20.93
	25	12	20.95	20.94	21.09
	25	25	21.15	21.06	21.01
	50	0	21.09	21.18	21.09
256QAM	1	0	19.26	19.41	19.13
	1	24	19.26	19.17	19.25
	1	49	19.21	19.34	19.10
	25	0	17.85	18.14	18.10
	25	12	18.00	18.08	17.89
	25	25	18.26	18.12	18.00
	50	0	18.18	18.06	18.18

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.06	24.42	16.96	18.32	38.45
16QAM	22.07	23.36	15.97	17.26	38.45
64QAM	20.93	22.39	14.83	16.29	38.45
256QAM	17.85	19.41	11.75	13.31	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

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

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26865	CH 26915	CH 26965
			831.5 MHz	836.5 MHz	841.5 MHz
QPSK	1	0	24.42	24.48	24.36
	1	37	24.40	24.45	24.34
	1	74	24.31	24.41	24.33
	36	0	23.19	23.25	23.18
	36	19	23.11	23.19	23.16
	36	39	23.27	23.21	23.19
	75	0	23.22	23.21	23.29
16QAM	1	0	23.44	23.44	23.27
	1	37	23.43	23.37	23.33
	1	74	23.32	23.37	23.30
	36	0	22.20	22.26	22.19
	36	19	22.14	22.22	22.13
	36	39	22.20	22.14	22.22
	75	0	22.13	22.25	22.22
64QAM	1	0	22.27	22.42	22.25
	1	37	22.20	22.35	22.25
	1	74	22.19	22.44	22.23
	36	0	21.22	21.22	21.03
	36	19	21.04	21.01	21.14
	36	39	21.16	21.09	21.10
	75	0	21.13	21.19	21.19
256QAM	1	0	19.31	19.50	19.23
	1	37	19.27	19.24	19.35
	1	74	19.27	19.41	19.19
	36	0	17.95	18.21	18.19
	36	19	18.03	18.10	17.95
	36	39	18.27	18.21	18.02
	75	0	18.20	18.15	18.23

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.11	24.48	17.01	18.38	38.45
16QAM	22.13	23.44	16.03	17.34	38.45
64QAM	21.01	22.44	14.91	16.34	38.45
256QAM	17.95	19.5	11.85	13.4	38.45

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.1.9 LTE Band 30

LTE Band 30, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 27685	CH 27710	CH 27735
			2307.5 MHz	2310 MHz	2312.5 MHz
QPSK	1	0	22.32	22.36	22.28
	1	12	22.15	22.16	22.10
	1	24	22.15	22.19	22.13
	12	0	21.05	21.06	20.97
	12	6	21.05	21.13	21.03
	12	13	21.01	21.09	20.99
	25	0	21.03	21.06	21.05
16QAM	1	0	21.26	21.34	21.31
	1	12	21.07	21.13	21.04
	1	24	21.12	21.13	21.09
	12	0	19.90	20.00	19.93
	12	6	19.93	20.02	20.01
	12	13	19.98	20.06	19.96
	25	0	20.02	20.05	19.98
64QAM	1	0	20.17	20.18	20.16
	1	12	20.01	20.05	20.03
	1	24	19.92	19.98	19.96
	12	0	18.86	18.88	18.80
	12	6	19.09	19.18	19.12
	12	13	18.95	19.03	18.96
	25	0	18.90	18.91	18.81
256QAM	1	0	17.09	17.15	17.09
	1	12	17.02	17.10	17.09
	1	24	17.14	17.16	17.09
	12	0	15.76	15.80	15.70
	12	6	15.97	16.03	16.02
	12	13	16.05	16.06	15.99
	25	0	16.01	16.07	15.99

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.97	22.36	21.85	23.24	23.98
16QAM	19.90	21.34	20.78	22.22	23.98
64QAM	18.80	20.18	19.68	21.06	23.98
256QAM	15.70	17.16	16.58	18.04	23.98

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 30, Channel Bandwidth: 10 MHz, Output Power: Full Power

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 27710
			2310 MHz
QPSK	1	0	22.41
	1	24	22.19
	1	49	22.23
	25	0	21.11
	25	12	21.19
	25	25	21.16
	50	0	21.12
16QAM	1	0	21.43
	1	24	21.21
	1	49	21.15
	25	0	20.10
	25	12	20.11
	25	25	20.13
	50	0	20.09
64QAM	1	0	20.28
	1	24	20.13
	1	49	20.08
	25	0	18.98
	25	12	19.19
	25	25	19.09
	50	0	18.95
256QAM	1	0	17.21
	1	24	17.15
	1	49	17.17
	25	0	15.89
	25	12	16.12
	25	25	16.14
	50	0	16.08

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	21.11	22.41	21.99	23.29	23.98
16QAM	20.09	21.43	20.97	22.31	23.98
64QAM	18.95	20.28	19.83	21.16	23.98
256QAM	15.89	17.21	16.77	18.09	23.98

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 30, Channel Bandwidth: 10 MHz, Output Power: dBm/5 MHz

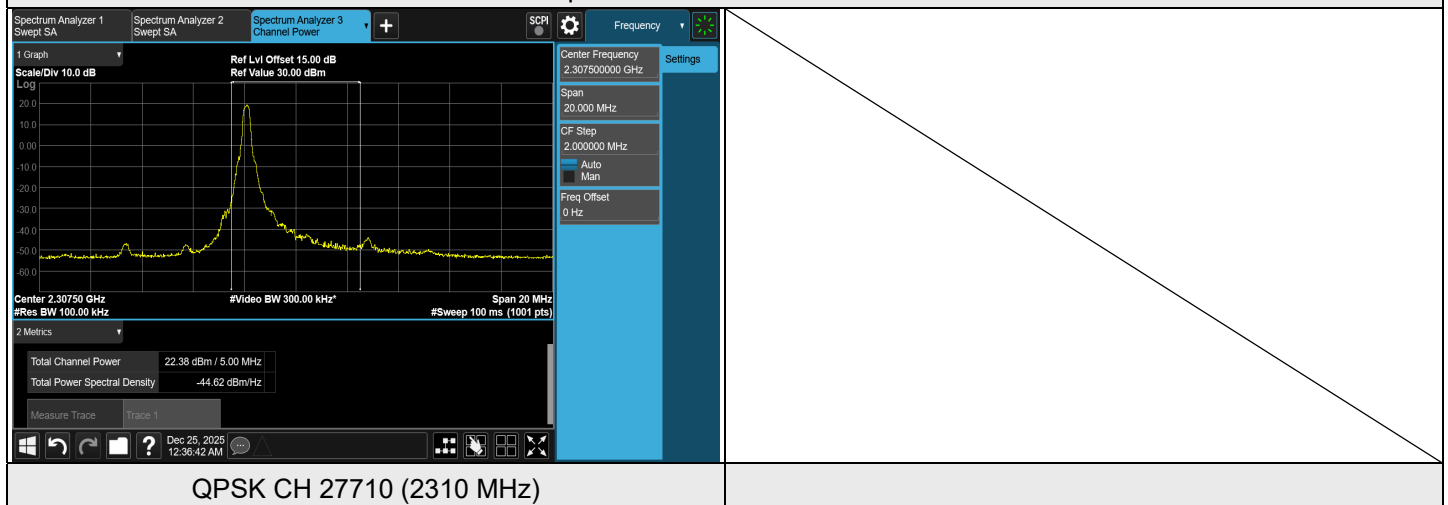
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 27710
			2310 MHz
QPSK	1	0	22.38
	1	24	22.13
	1	49	22.19
	25	0	21.02
	25	12	21.10
	25	25	21.07
	50	0	18.65
16QAM	1	0	21.34
	1	24	21.15
	1	49	21.09
	25	0	20.01
	25	12	20.03
	25	25	20.05
	50	0	17.68
64QAM	1	0	20.20
	1	24	20.07
	1	49	19.99
	25	0	18.89
	25	12	19.10
	25	25	18.99
	50	0	16.55
256QAM	1	0	17.17
	1	24	17.07
	1	49	17.09
	25	0	15.86
	25	12	16.10
	25	25	16.10
	50	0	13.65

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	18.65	22.38	19.53	23.26	23.98
16QAM	17.68	21.34	18.56	22.22	23.98
64QAM	16.55	20.2	17.43	21.08	23.98
256QAM	13.65	17.17	14.53	18.05	23.98

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

Spectrum Plot of Worst Value



QPSK CH 27710 (2310 MHz)

Note: For the channel bandwidth is less than or equal to 5 MHz, the full power test data please refer to the power per 5 MHz corresponding to the channel bandwidth.

7.1.10 LTE Band 38

LTE Band 38, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37775	CH 38000	CH 38225
			2572.5 MHz	2595 MHz	2617.5 MHz
QPSK	1	0	24.15	24.18	24.14
	1	12	24.17	24.09	24.16
	1	24	24.08	24.00	24.04
	12	0	23.04	23.16	23.20
	12	6	23.07	23.11	23.20
	12	13	22.95	23.11	23.07
	25	0	22.99	23.14	23.16
16QAM	1	0	23.15	23.19	22.99
	1	12	23.18	22.98	23.17
	1	24	23.08	22.99	23.07
	12	0	22.12	22.11	22.26
	12	6	22.02	22.12	22.10
	12	13	22.07	22.15	22.01
	25	0	21.90	22.17	22.06
64QAM	1	0	22.02	22.04	21.87
	1	12	22.04	21.95	21.96
	1	24	21.91	21.82	21.98
	12	0	21.01	21.04	21.04
	12	6	20.88	21.01	21.21
	12	13	20.91	21.02	20.87
	25	0	20.89	21.12	21.04
256QAM	1	0	18.91	19.08	19.02
	1	12	19.03	18.98	18.83
	1	24	18.80	18.88	18.83
	12	0	18.03	18.23	17.99
	12	6	17.94	17.92	17.97
	12	13	17.93	18.02	17.85
	25	0	17.94	18.07	17.91

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.95	24.18	26.00	27.23	33.01
16QAM	21.90	23.19	24.95	26.24	33.01
64QAM	20.87	22.04	23.92	25.09	33.01
256QAM	17.85	19.08	20.90	22.13	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37800	CH 38000	CH 38200
			2575 MHz	2595 MHz	2615 MHz
QPSK	1	0	24.17	24.22	24.13
	1	24	24.17	24.10	24.10
	1	49	24.07	24.00	24.03
	25	0	23.12	23.13	23.19
	25	12	23.04	23.05	23.20
	25	25	22.94	23.13	23.04
	50	0	23.04	23.16	23.10
16QAM	1	0	23.18	23.16	23.07
	1	24	23.20	23.06	23.18
	1	49	23.08	22.91	23.04
	25	0	22.13	22.17	22.28
	25	12	22.03	22.09	22.09
	25	25	21.99	22.16	21.98
	50	0	21.87	22.19	22.07
64QAM	1	0	22.07	21.98	21.86
	1	24	22.07	21.99	21.94
	1	49	21.87	21.91	21.95
	25	0	21.00	21.04	21.11
	25	12	20.89	21.04	21.18
	25	25	20.91	20.99	20.94
	50	0	20.97	21.13	21.08
256QAM	1	0	18.95	19.02	19.00
	1	24	18.98	18.99	18.91
	1	49	18.82	18.86	18.83
	25	0	17.96	18.23	18.03
	25	12	17.97	17.93	17.98
	25	25	17.91	17.98	17.85
	50	0	17.98	18.03	17.83

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.94	24.22	25.99	27.27	33.01
16QAM	21.87	23.20	24.92	26.25	33.01
64QAM	20.89	22.07	23.94	25.12	33.01
256QAM	17.83	19.02	20.88	22.07	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37825	CH 38000	CH 38175
			2577.5 MHz	2595 MHz	2612.5 MHz
QPSK	1	0	24.19	24.16	24.14
	1	37	24.16	24.08	24.18
	1	74	24.12	24.08	24.08
	36	0	23.07	23.18	23.21
	36	19	23.02	23.08	23.14
	36	39	23.03	23.14	23.03
	75	0	23.05	23.09	23.17
16QAM	1	0	23.18	23.20	23.00
	1	37	23.21	23.07	23.12
	1	74	23.07	23.00	23.10
	36	0	22.16	22.16	22.26
	36	19	22.08	22.06	22.10
	36	39	22.04	22.10	21.93
	75	0	21.93	22.18	22.07
64QAM	1	0	22.06	21.99	21.89
	1	37	22.02	22.01	21.94
	1	74	21.93	21.82	22.00
	36	0	21.03	21.09	21.12
	36	19	20.93	21.00	21.18
	36	39	20.88	21.05	20.92
	75	0	20.92	21.08	21.09
256QAM	1	0	19.00	19.03	19.00
	1	37	19.05	18.99	18.89
	1	74	18.86	18.89	18.90
	36	0	18.00	18.23	18.05
	36	19	17.98	17.95	17.96
	36	39	17.94	17.96	17.85
	75	0	17.89	18.06	17.88

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.02	24.19	26.07	27.24	33.01
16QAM	21.93	23.21	24.98	26.26	33.01
64QAM	20.88	22.06	23.93	25.11	33.01
256QAM	17.85	19.05	20.90	22.10	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37850	CH 38000	CH 38150
			2580 MHz	2595 MHz	2610 MHz
QPSK	1	0	24.22	24.25	24.15
	1	50	24.19	24.17	24.19
	1	99	24.15	24.09	24.10
	50	0	23.14	23.22	23.26
	50	25	23.08	23.14	23.21
	50	50	23.04	23.16	23.09
	100	0	23.06	23.17	23.18
16QAM	1	0	23.24	23.25	23.09
	1	50	23.24	23.08	23.20
	1	99	23.15	23.01	23.12
	50	0	22.19	22.20	22.29
	50	25	22.12	22.15	22.14
	50	50	22.09	22.19	22.02
	100	0	21.97	22.22	22.15
64QAM	1	0	22.12	22.07	21.94
	1	50	22.08	22.03	22.04
	1	99	21.94	21.92	22.02
	50	0	21.06	21.12	21.13
	50	25	20.98	21.05	21.25
	50	50	20.92	21.06	20.96
	100	0	20.98	21.18	21.13
256QAM	1	0	19.01	19.12	19.07
	1	50	19.08	19.08	18.93
	1	99	18.89	18.90	18.91
	50	0	18.04	18.25	18.06
	50	25	18.04	18.00	18.06
	50	50	18.00	18.03	17.92
	100	0	17.99	18.08	17.93

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.04	24.25	26.09	27.30	33.01
16QAM	21.97	23.25	25.02	26.30	33.01
64QAM	20.92	22.12	23.97	25.17	33.01
256QAM	17.92	19.12	20.97	22.17	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.11 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39675	CH 40620	CH 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
QPSK	1	0	24.33	24.48	24.15
	1	12	23.95	24.16	23.83
	1	24	24.04	23.85	24.00
	12	0	22.96	23.05	22.87
	12	6	23.00	23.02	22.95
	12	13	22.96	22.87	22.84
	25	0	22.89	22.95	22.88
16QAM	1	0	23.32	23.47	23.09
	1	12	22.96	23.12	22.75
	1	24	23.06	22.83	23.05
	12	0	21.93	21.94	21.79
	12	6	21.86	21.87	21.87
	12	13	21.98	21.93	21.83
	25	0	21.87	22.01	21.77
64QAM	1	0	22.24	22.50	21.93
	1	12	21.91	22.09	21.83
	1	24	21.94	21.82	21.88
	12	0	20.83	20.92	20.70
	12	6	20.68	20.90	20.87
	12	13	20.92	20.75	20.72
	25	0	20.80	20.90	20.72
256QAM	1	0	19.36	19.23	18.97
	1	12	18.92	18.98	18.77
	1	24	18.79	18.80	18.94
	12	0	17.71	17.99	17.83
	12	6	17.78	18.03	17.80
	12	13	17.96	17.88	17.58
	25	0	17.77	17.81	17.82

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.84	24.48	25.99	27.63	33.01
16QAM	21.77	23.47	24.92	26.62	33.01
64QAM	20.68	22.50	23.83	25.65	33.01
256QAM	17.58	19.36	20.73	22.51	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39700	CH 40620	CH 41540
			2501 MHz	2593 MHz	2685 MHz
QPSK	1	0	24.32	24.42	24.11
	1	24	23.94	24.17	23.82
	1	49	24.01	23.85	24.04
	25	0	22.89	22.99	22.91
	25	12	22.98	22.95	22.92
	25	25	22.96	22.86	22.87
	50	0	22.96	23.01	22.91
16QAM	1	0	23.35	23.47	23.04
	1	24	22.91	23.21	22.74
	1	49	23.04	22.90	23.07
	25	0	21.86	21.95	21.76
	25	12	21.86	21.92	21.93
	25	25	21.94	21.87	21.88
	50	0	21.92	22.03	21.74
64QAM	1	0	22.24	22.48	21.97
	1	24	21.95	22.14	21.87
	1	49	21.93	21.84	21.91
	25	0	20.89	20.93	20.72
	25	12	20.75	20.90	20.88
	25	25	20.92	20.78	20.66
	50	0	20.81	20.85	20.70
256QAM	1	0	19.29	19.29	18.98
	1	24	18.94	18.98	18.80
	1	49	18.81	18.72	18.96
	25	0	17.74	17.99	17.86
	25	12	17.78	17.95	17.75
	25	25	17.97	17.97	17.65
	50	0	17.77	17.81	17.79

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.86	24.42	26.01	27.57	33.01
16QAM	21.74	23.47	24.89	26.62	33.01
64QAM	20.66	22.48	23.81	25.63	33.01
256QAM	17.65	19.29	20.80	22.44	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39725	CH 40620	CH 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
QPSK	1	0	24.27	24.44	24.11
	1	37	23.92	24.16	23.78
	1	74	24.00	23.83	23.97
	36	0	22.96	23.03	22.90
	36	19	22.96	23.01	22.92
	36	39	23.01	22.92	22.81
	75	0	22.92	22.96	22.82
16QAM	1	0	23.33	23.44	23.10
	1	37	22.97	23.18	22.77
	1	74	23.06	22.90	23.04
	36	0	21.90	21.99	21.78
	36	19	21.89	21.87	21.90
	36	39	21.98	21.88	21.87
	75	0	21.92	21.99	21.74
64QAM	1	0	22.24	22.48	22.00
	1	37	21.92	22.13	21.89
	1	74	21.94	21.83	21.94
	36	0	20.88	20.91	20.67
	36	19	20.68	20.88	20.86
	36	39	20.94	20.80	20.67
	75	0	20.89	20.92	20.73
256QAM	1	0	19.38	19.26	18.94
	1	37	18.86	19.01	18.76
	1	74	18.87	18.79	18.96
	36	0	17.73	17.96	17.81
	36	19	17.79	18.04	17.80
	36	39	17.94	17.96	17.60
	75	0	17.78	17.77	17.80

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.81	24.44	25.96	27.59	33.01
16QAM	21.74	23.44	24.89	26.59	33.01
64QAM	20.67	22.48	23.82	25.63	33.01
256QAM	17.60	19.38	20.75	22.53	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39750	CH 40620	CH 41490
			2506 MHz	2593 MHz	2680 MHz
QPSK	1	0	24.37	24.49	24.18
	1	50	24.02	24.20	23.88
	1	99	24.07	23.91	24.05
	50	0	22.99	23.09	22.92
	50	25	23.01	23.03	22.97
	50	50	23.02	22.93	22.91
	100	0	22.98	23.04	22.92
16QAM	1	0	23.39	23.54	23.14
	1	50	22.98	23.22	22.84
	1	99	23.07	22.92	23.09
	50	0	21.94	22.02	21.84
	50	25	21.94	21.95	21.96
	50	50	22.02	21.96	21.93
	100	0	21.93	22.09	21.83
64QAM	1	0	22.33	22.51	22.01
	1	50	21.97	22.16	21.92
	1	99	21.99	21.89	21.96
	50	0	20.91	20.95	20.75
	50	25	20.77	20.92	20.95
	50	50	20.95	20.82	20.75
	100	0	20.90	20.93	20.78
256QAM	1	0	19.39	19.32	19.04
	1	50	18.95	19.05	18.81
	1	99	18.89	18.81	19.00
	50	0	17.75	18.02	17.87
	50	25	17.84	18.05	17.85
	50	50	17.98	17.98	17.68
	100	0	17.84	17.84	17.85

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.91	24.49	26.06	27.64	33.01
16QAM	21.83	23.54	24.98	26.69	33.01
64QAM	20.75	22.51	23.90	25.66	33.01
256QAM	17.68	19.39	20.83	22.54	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.12 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131979	CH 132322	CH 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
QPSK	1	0	24.09	24.37	24.23
	1	2	24.00	24.17	24.13
	1	5	24.24	24.24	24.33
	3	0	22.96	22.93	22.98
	3	1	23.12	23.08	23.01
	3	3	23.13	23.11	22.99
	6	0	23.05	22.98	23.08
16QAM	1	0	23.12	23.37	23.28
	1	2	22.98	23.10	23.23
	1	5	23.16	23.24	23.31
	3	0	21.92	21.94	21.93
	3	1	22.11	22.04	21.98
	3	3	22.07	22.00	22.05
	6	0	22.06	21.91	21.95
64QAM	1	0	22.08	22.28	22.22
	1	2	21.84	22.14	22.10
	1	5	22.06	22.06	22.13
	3	0	20.88	20.83	21.01
	3	1	20.90	20.93	20.84
	3	3	21.07	21.14	20.94
	6	0	20.99	20.99	21.01
256QAM	1	0	18.86	19.20	19.17
	1	2	18.87	19.02	19.00
	1	5	19.14	19.18	19.06
	3	0	17.99	17.89	17.86
	3	1	17.94	17.77	17.90
	3	3	17.86	17.97	17.94
	6	0	18.07	17.87	17.88

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.93	24.37	24.85	26.29	30
16QAM	21.91	23.37	23.83	25.29	30
64QAM	20.83	22.28	22.75	24.20	30
256QAM	17.77	19.20	19.69	21.12	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131987	CH 132322	CH 132657
			1711.5 MHz	1745 MHz	1778.5 MHz
QPSK	1	0	24.03	24.35	24.24
	1	7	24.03	24.17	24.16
	1	14	24.24	24.26	24.28
	8	0	23.01	22.92	22.92
	8	3	23.10	23.11	23.05
	8	7	23.07	23.14	23.00
	15	0	23.07	22.98	23.06
16QAM	1	0	23.05	23.44	23.24
	1	7	22.96	23.10	23.15
	1	14	23.15	23.22	23.36
	8	0	21.90	21.93	21.87
	8	3	22.14	22.06	21.99
	8	7	22.01	22.06	22.05
	15	0	22.11	21.96	21.97
64QAM	1	0	22.05	22.23	22.16
	1	7	21.76	22.19	22.08
	1	14	22.06	22.10	22.05
	8	0	20.95	20.89	20.94
	8	3	20.94	20.95	20.80
	8	7	21.06	21.11	20.93
	15	0	21.04	20.98	20.96
256QAM	1	0	18.84	19.15	19.24
	1	7	18.95	19.04	19.04
	1	14	19.14	19.22	19.14
	8	0	17.96	17.87	17.91
	8	3	17.87	17.78	17.92
	8	7	17.84	17.98	17.93
	15	0	18.04	17.90	17.91

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.92	24.35	24.84	26.27	30
16QAM	21.87	23.44	23.79	25.36	30
64QAM	20.80	22.23	22.72	24.15	30
256QAM	17.78	19.24	19.70	21.16	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131997	CH 132322	CH 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
QPSK	1	0	24.07	24.39	24.22
	1	12	24.06	24.16	24.19
	1	24	24.24	24.31	24.27
	12	0	22.98	22.93	22.99
	12	6	23.11	23.11	23.04
	12	13	23.11	23.08	23.08
	25	0	23.11	23.05	23.04
16QAM	1	0	23.07	23.42	23.26
	1	12	23.04	23.08	23.20
	1	24	23.14	23.25	23.36
	12	0	21.88	21.92	21.90
	12	6	22.15	22.04	21.96
	12	13	22.04	22.02	22.00
	25	0	22.13	21.93	22.03
64QAM	1	0	22.12	22.24	22.22
	1	12	21.79	22.20	22.12
	1	24	22.04	22.08	22.09
	12	0	20.92	20.84	20.98
	12	6	20.95	20.94	20.86
	12	13	20.99	21.13	20.92
	25	0	21.02	20.98	20.95
256QAM	1	0	18.84	19.15	19.24
	1	12	18.95	19.02	19.00
	1	24	19.15	19.27	19.14
	12	0	17.96	17.91	17.95
	12	6	17.90	17.77	17.84
	12	13	17.88	17.93	17.93
	25	0	18.05	17.87	17.84

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.93	24.39	24.85	26.31	30
16QAM	21.88	23.42	23.80	25.34	30
64QAM	20.84	22.24	22.76	24.16	30
256QAM	17.77	19.27	19.69	21.19	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132022	CH 132322	CH 132622
			1715 MHz	1745 MHz	1775 MHz
QPSK	1	0	24.06	24.37	24.25
	1	24	24.03	24.21	24.20
	1	49	24.21	24.27	24.28
	25	0	22.98	22.92	22.97
	25	12	23.06	23.05	23.04
	25	25	23.08	23.12	23.02
	50	0	23.05	23.02	23.02
16QAM	1	0	23.07	23.43	23.31
	1	24	23.01	23.15	23.22
	1	49	23.18	23.28	23.29
	25	0	21.91	21.90	21.89
	25	12	22.15	22.03	21.98
	25	25	22.07	22.05	21.98
	50	0	22.05	21.95	21.98
64QAM	1	0	22.03	22.29	22.16
	1	24	21.78	22.21	22.06
	1	49	22.10	22.07	22.13
	25	0	20.95	20.89	21.00
	25	12	20.92	20.94	20.83
	25	25	21.05	21.08	20.93
	50	0	20.95	20.97	20.97
256QAM	1	0	18.81	19.20	19.24
	1	24	18.88	19.05	19.01
	1	49	19.16	19.19	19.14
	25	0	17.91	17.91	17.91
	25	12	17.94	17.85	17.87
	25	25	17.92	17.94	17.92
	50	0	18.05	17.93	17.87

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.92	24.37	24.84	26.29	30
16QAM	21.89	23.43	23.81	25.35	30
64QAM	20.83	22.29	22.75	24.21	30
256QAM	17.85	19.24	19.77	21.16	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132047	CH 132322	CH 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
QPSK	1	0	24.08	24.38	24.26
	1	37	23.98	24.18	24.15
	1	74	24.19	24.23	24.34
	36	0	22.96	23.01	22.99
	36	19	23.05	23.07	23.02
	36	39	23.09	23.15	23.04
	75	0	23.10	23.05	23.04
16QAM	1	0	23.11	23.37	23.25
	1	37	22.97	23.12	23.14
	1	74	23.15	23.25	23.28
	36	0	21.86	21.91	21.85
	36	19	22.11	22.03	21.99
	36	39	22.03	22.05	21.99
	75	0	22.06	21.97	21.97
64QAM	1	0	22.08	22.28	22.16
	1	37	21.80	22.14	22.08
	1	74	22.04	22.04	22.11
	36	0	20.97	20.90	20.98
	36	19	20.94	20.90	20.88
	36	39	21.01	21.12	20.98
	75	0	21.02	20.97	21.02
256QAM	1	0	18.88	19.14	19.20
	1	37	18.89	19.07	19.06
	1	74	19.15	19.24	19.12
	36	0	17.98	17.89	17.86
	36	19	17.92	17.80	17.88
	36	39	17.85	17.94	17.93
	75	0	18.05	17.89	17.91

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.96	24.38	24.88	26.30	30
16QAM	21.85	23.37	23.77	25.29	30
64QAM	20.88	22.28	22.80	24.20	30
256QAM	17.80	19.24	19.72	21.16	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132072	CH 132322	CH 132572
			1720 MHz	1745 MHz	1770 MHz
QPSK	1	0	24.11	24.43	24.31
	1	50	24.08	24.24	24.22
	1	99	24.28	24.32	24.36
	50	0	23.04	23.02	23.02
	50	25	23.13	23.14	23.11
	50	50	23.15	23.16	23.09
	100	0	23.13	23.08	23.11
16QAM	1	0	23.14	23.45	23.32
	1	50	23.06	23.18	23.24
	1	99	23.20	23.30	23.37
	50	0	21.95	21.98	21.94
	50	25	22.17	22.09	22.03
	50	50	22.08	22.07	22.07
	100	0	22.14	21.99	22.04
64QAM	1	0	22.13	22.33	22.23
	1	50	21.86	22.22	22.13
	1	99	22.13	22.13	22.15
	50	0	20.98	20.93	21.03
	50	25	20.98	20.99	20.90
	50	50	21.08	21.16	20.99
	100	0	21.05	21.04	21.04
256QAM	1	0	18.91	19.21	19.26
	1	50	18.96	19.11	19.10
	1	99	19.17	19.28	19.16
	50	0	18.01	17.92	17.96
	50	25	17.97	17.86	17.94
	50	50	17.93	18.02	18.00
	100	0	18.09	17.96	17.92

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.02	24.43	24.94	26.35	30
16QAM	21.94	23.45	23.86	25.37	30
64QAM	20.90	22.33	22.82	24.25	30
256QAM	17.86	19.28	19.78	21.20	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.13 LTE Band 71

LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133147	CH 133297	CH 133447
			665.5 MHz	680.5 MHz	695.5 MHz
QPSK	1	0	24.14	24.24	24.07
	1	12	24.16	24.21	23.96
	1	24	24.08	24.19	23.92
	12	0	22.91	22.86	22.90
	12	6	23.02	22.85	22.93
	12	13	22.88	22.86	22.83
	25	0	22.93	22.83	22.94
16QAM	1	0	23.08	23.26	23.06
	1	12	23.05	23.07	22.85
	1	24	23.09	23.10	22.89
	12	0	21.93	21.75	21.91
	12	6	21.98	21.92	21.83
	12	13	21.77	21.90	21.88
	25	0	21.93	21.80	21.93
64QAM	1	0	22.00	22.12	22.02
	1	12	22.05	22.00	21.82
	1	24	22.02	22.25	21.86
	12	0	20.87	20.61	20.93
	12	6	20.97	20.61	20.91
	12	13	20.76	20.75	20.81
	25	0	20.84	20.67	20.81
256QAM	1	0	19.20	19.27	18.96
	1	12	19.11	18.99	18.84
	1	24	19.00	19.18	18.80
	12	0	17.79	17.71	17.78
	12	6	17.79	17.80	17.80
	12	13	17.62	17.87	17.63
	25	0	17.86	17.61	17.79

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.83	24.24	16.09	17.50	34.77
16QAM	21.75	23.26	15.01	16.52	34.77
64QAM	20.61	22.25	13.87	15.51	34.77
256QAM	17.61	19.27	10.87	12.53	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133172	CH 133297	CH 133422
			668 MHz	680.5 MHz	693 MHz
QPSK	1	0	24.21	24.29	24.11
	1	24	24.10	24.22	23.90
	1	49	24.13	24.26	23.96
	25	0	22.94	22.84	22.85
	25	12	22.98	22.82	22.88
	25	25	22.84	22.89	22.85
	50	0	22.97	22.83	22.93
16QAM	1	0	23.06	23.29	23.10
	1	24	23.10	23.05	22.87
	1	49	23.11	23.13	22.90
	25	0	21.87	21.75	21.92
	25	12	21.97	21.87	21.84
	25	25	21.78	21.94	21.90
	50	0	21.98	21.85	22.00
64QAM	1	0	22.03	22.08	21.94
	1	24	22.05	22.00	21.82
	1	49	21.98	22.21	21.88
	25	0	20.85	20.58	20.87
	25	12	20.97	20.63	20.89
	25	25	20.82	20.72	20.79
	50	0	20.89	20.66	20.84
256QAM	1	0	19.19	19.32	18.98
	1	24	19.14	19.01	18.84
	1	49	19.00	19.21	18.74
	25	0	17.74	17.63	17.82
	25	12	17.81	17.79	17.82
	25	25	17.69	17.94	17.71
	50	0	17.86	17.66	17.77

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.82	24.29	16.08	17.55	34.77
16QAM	21.75	23.29	15.01	16.55	34.77
64QAM	20.58	22.21	13.84	15.47	34.77
256QAM	17.63	19.32	10.89	12.58	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133197	CH 133297	CH 133397
			670.5 MHz	680.5 MHz	690.5 MHz
QPSK	1	0	24.17	24.29	24.15
	1	37	24.14	24.19	23.95
	1	74	24.13	24.21	23.97
	36	0	22.90	22.81	22.89
	36	19	23.01	22.83	22.88
	36	39	22.83	22.90	22.83
	75	0	23.02	22.86	22.91
16QAM	1	0	23.10	23.29	23.10
	1	37	23.06	23.07	22.82
	1	74	23.10	23.11	22.87
	36	0	21.86	21.78	21.92
	36	19	21.95	21.85	21.86
	36	39	21.77	21.92	21.84
	75	0	21.93	21.79	21.93
64QAM	1	0	21.96	22.06	22.02
	1	37	21.96	21.99	21.84
	1	74	21.97	22.24	21.91
	36	0	20.88	20.66	20.93
	36	19	20.91	20.61	20.89
	36	39	20.80	20.70	20.79
	75	0	20.83	20.60	20.81
256QAM	1	0	19.18	19.31	18.92
	1	37	19.07	19.02	18.83
	1	74	18.93	19.15	18.75
	36	0	17.76	17.72	17.78
	36	19	17.78	17.77	17.78
	36	39	17.69	17.87	17.63
	75	0	17.87	17.65	17.81

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.81	24.29	16.07	17.55	34.77
16QAM	21.77	23.29	15.03	16.55	34.77
64QAM	20.60	22.24	13.86	15.50	34.77
256QAM	17.63	19.31	10.89	12.57	34.77

Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133222	CH 133297	CH 133372
			673 MHz	680.5 MHz	688 MHz
QPSK	1	0	24.22	24.33	24.17
	1	50	24.20	24.23	23.99
	1	99	24.18	24.27	23.98
	50	0	22.95	22.88	22.93
	50	25	23.03	22.92	22.94
	50	50	22.89	22.95	22.90
	100	0	23.03	22.90	22.98
16QAM	1	0	23.15	23.32	23.13
	1	50	23.11	23.14	22.92
	1	99	23.16	23.18	22.92
	50	0	21.94	21.82	21.98
	50	25	22.02	21.94	21.90
	50	50	21.83	22.00	21.93
	100	0	22.01	21.87	22.02
64QAM	1	0	22.05	22.13	22.04
	1	50	22.06	22.08	21.90
	1	99	22.05	22.28	21.95
	50	0	20.94	20.68	20.95
	50	25	20.99	20.71	20.92
	50	50	20.83	20.79	20.84
	100	0	20.90	20.69	20.91
256QAM	1	0	19.25	19.37	19.00
	1	50	19.15	19.09	18.90
	1	99	19.01	19.23	18.84
	50	0	17.83	17.73	17.85
	50	25	17.84	17.82	17.84
	50	50	17.71	17.97	17.72
	100	0	17.90	17.71	17.84

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.88	24.33	16.14	17.59	34.77
16QAM	21.82	23.32	15.08	16.58	34.77
64QAM	20.68	22.28	13.94	15.54	34.77
256QAM	17.71	19.37	10.97	12.63	34.77

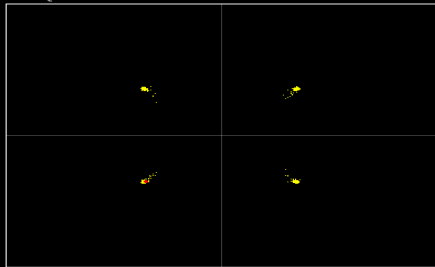
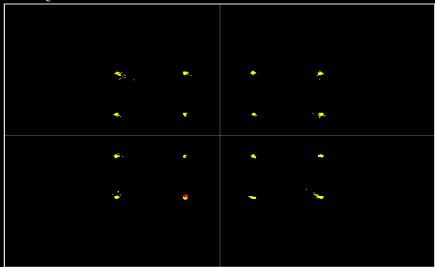
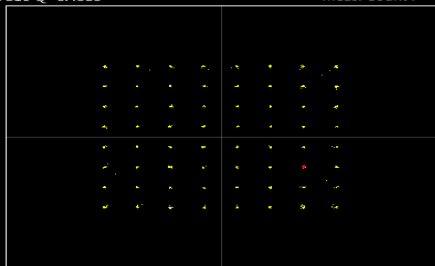
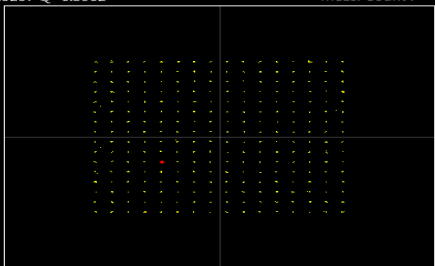
Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.2 Modulation Characteristics

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang
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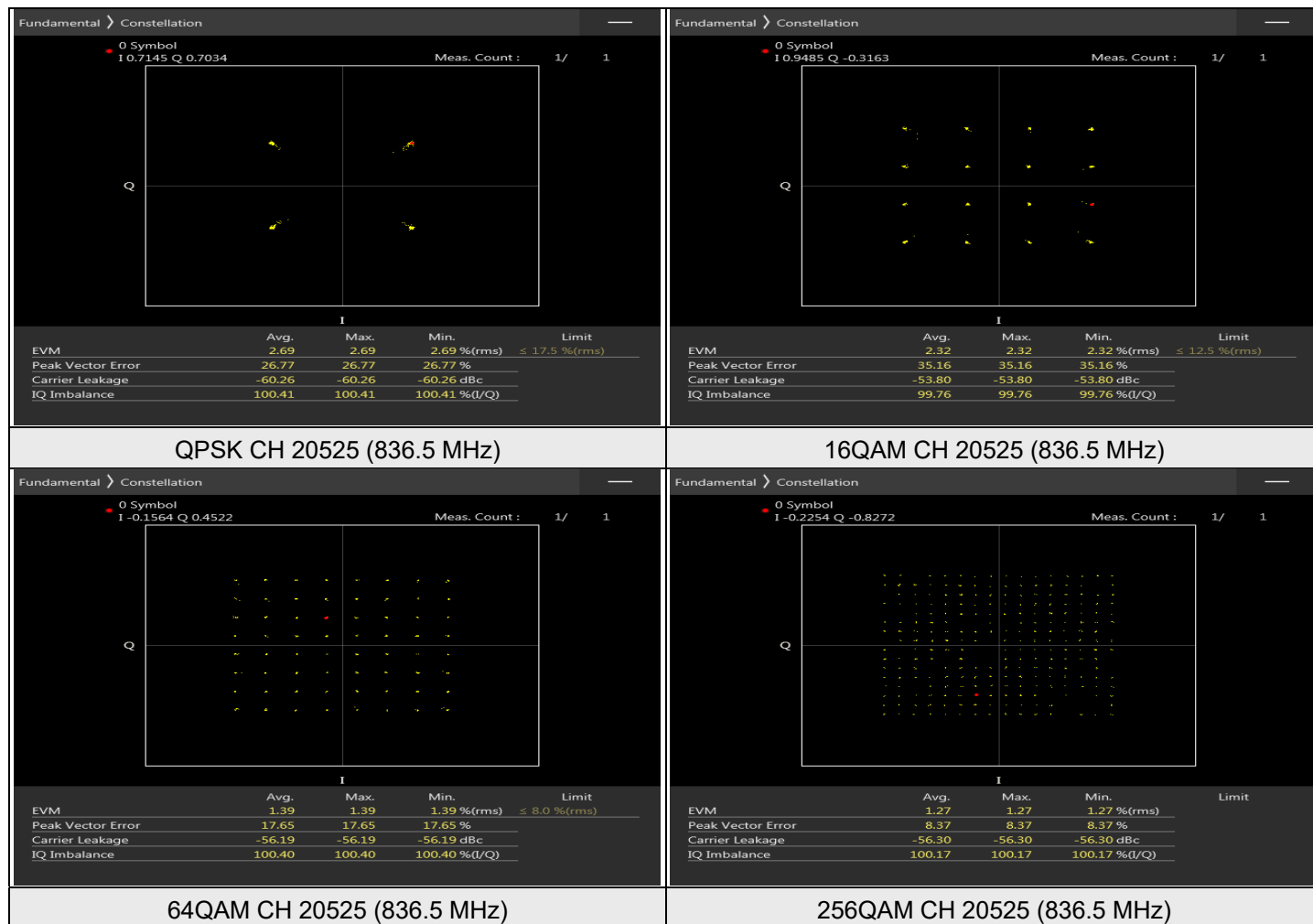
7.2.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz

Fundamental > Constellation 0 Symbol I -0.6910 Q -0.7112 Meas. Count : 1/ 1  <table><tr><td>EVM</td><td>Avg. 2.76</td><td>Max. 2.76</td><td>Min. 2.76 %(rms)</td><td>Limit ≤ 17.5 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>38.15</td><td>38.15</td><td>38.15 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-52.89</td><td>-52.89</td><td>-52.89 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>100.31</td><td>100.31</td><td>100.31 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 2.76	Max. 2.76	Min. 2.76 %(rms)	Limit ≤ 17.5 %(rms)	Peak Vector Error	38.15	38.15	38.15 %		Carrier Leakage	-52.89	-52.89	-52.89 dBc		IQ Imbalance	100.31	100.31	100.31 %(I/Q)		Fundamental > Constellation 0 Symbol I -0.3089 Q -0.9261 Meas. Count : 1/ 1  <table><tr><td>EVM</td><td>Avg. 2.36</td><td>Max. 2.36</td><td>Min. 2.36 %(rms)</td><td>Limit ≤ 12.5 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>25.54</td><td>25.54</td><td>25.54 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-50.61</td><td>-50.61</td><td>-50.61 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>99.64</td><td>99.64</td><td>99.64 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 2.36	Max. 2.36	Min. 2.36 %(rms)	Limit ≤ 12.5 %(rms)	Peak Vector Error	25.54	25.54	25.54 %		Carrier Leakage	-50.61	-50.61	-50.61 dBc		IQ Imbalance	99.64	99.64	99.64 %(I/Q)	
EVM	Avg. 2.76	Max. 2.76	Min. 2.76 %(rms)	Limit ≤ 17.5 %(rms)																																					
Peak Vector Error	38.15	38.15	38.15 %																																						
Carrier Leakage	-52.89	-52.89	-52.89 dBc																																						
IQ Imbalance	100.31	100.31	100.31 %(I/Q)																																						
EVM	Avg. 2.36	Max. 2.36	Min. 2.36 %(rms)	Limit ≤ 12.5 %(rms)																																					
Peak Vector Error	25.54	25.54	25.54 %																																						
Carrier Leakage	-50.61	-50.61	-50.61 dBc																																						
IQ Imbalance	99.64	99.64	99.64 %(I/Q)																																						
QPSK CH 18900 (1880 MHz)	16QAM CH 18900 (1880 MHz)																																								
Fundamental > Constellation 0 Symbol I 0.7810 Q -0.4585 Meas. Count : 1/ 1  <table><tr><td>EVM</td><td>Avg. 1.36</td><td>Max. 1.36</td><td>Min. 1.36 %(rms)</td><td>Limit ≤ 8.0 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>18.86</td><td>18.86</td><td>18.86 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-49.57</td><td>-49.57</td><td>-49.57 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>100.24</td><td>100.24</td><td>100.24 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 1.36	Max. 1.36	Min. 1.36 %(rms)	Limit ≤ 8.0 %(rms)	Peak Vector Error	18.86	18.86	18.86 %		Carrier Leakage	-49.57	-49.57	-49.57 dBc		IQ Imbalance	100.24	100.24	100.24 %(I/Q)		Fundamental > Constellation 0 Symbol I -0.5257 Q -0.3902 Meas. Count : 1/ 1  <table><tr><td>EVM</td><td>Avg. 0.69</td><td>Max. 0.69</td><td>Min. 0.69 %(rms)</td><td>Limit</td></tr><tr><td>Peak Vector Error</td><td>9.35</td><td>9.35</td><td>9.35 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-48.48</td><td>-48.48</td><td>-48.48 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>99.64</td><td>99.64</td><td>99.64 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 0.69	Max. 0.69	Min. 0.69 %(rms)	Limit	Peak Vector Error	9.35	9.35	9.35 %		Carrier Leakage	-48.48	-48.48	-48.48 dBc		IQ Imbalance	99.64	99.64	99.64 %(I/Q)	
EVM	Avg. 1.36	Max. 1.36	Min. 1.36 %(rms)	Limit ≤ 8.0 %(rms)																																					
Peak Vector Error	18.86	18.86	18.86 %																																						
Carrier Leakage	-49.57	-49.57	-49.57 dBc																																						
IQ Imbalance	100.24	100.24	100.24 %(I/Q)																																						
EVM	Avg. 0.69	Max. 0.69	Min. 0.69 %(rms)	Limit																																					
Peak Vector Error	9.35	9.35	9.35 %																																						
Carrier Leakage	-48.48	-48.48	-48.48 dBc																																						
IQ Imbalance	99.64	99.64	99.64 %(I/Q)																																						
64QAM CH 18900 (1880 MHz)	256QAM CH 18900 (1880 MHz)																																								

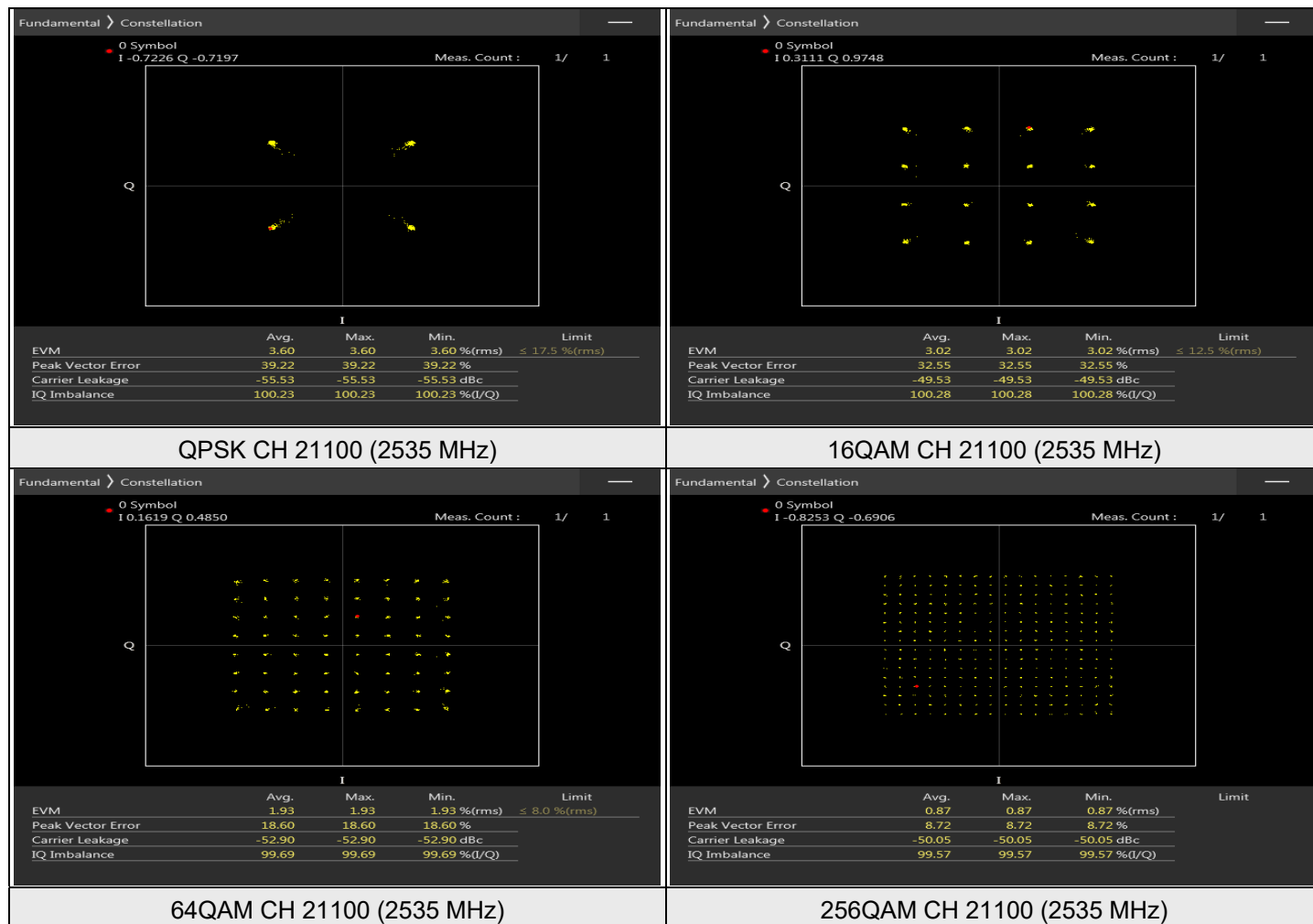
7.2.2 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz



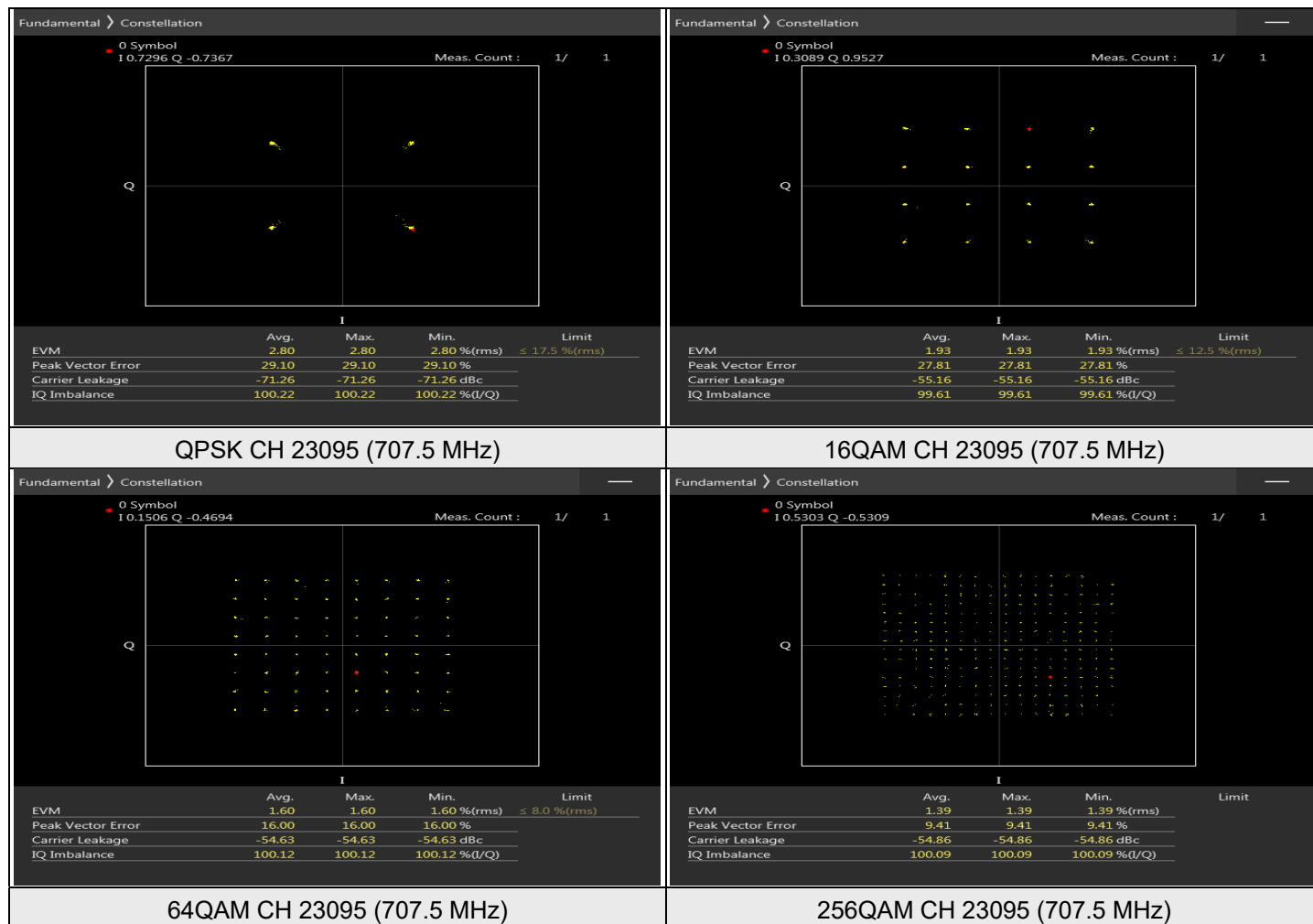
7.2.3 LTE Band 7

LTE Band 7, Channel Bandwidth: 20 MHz



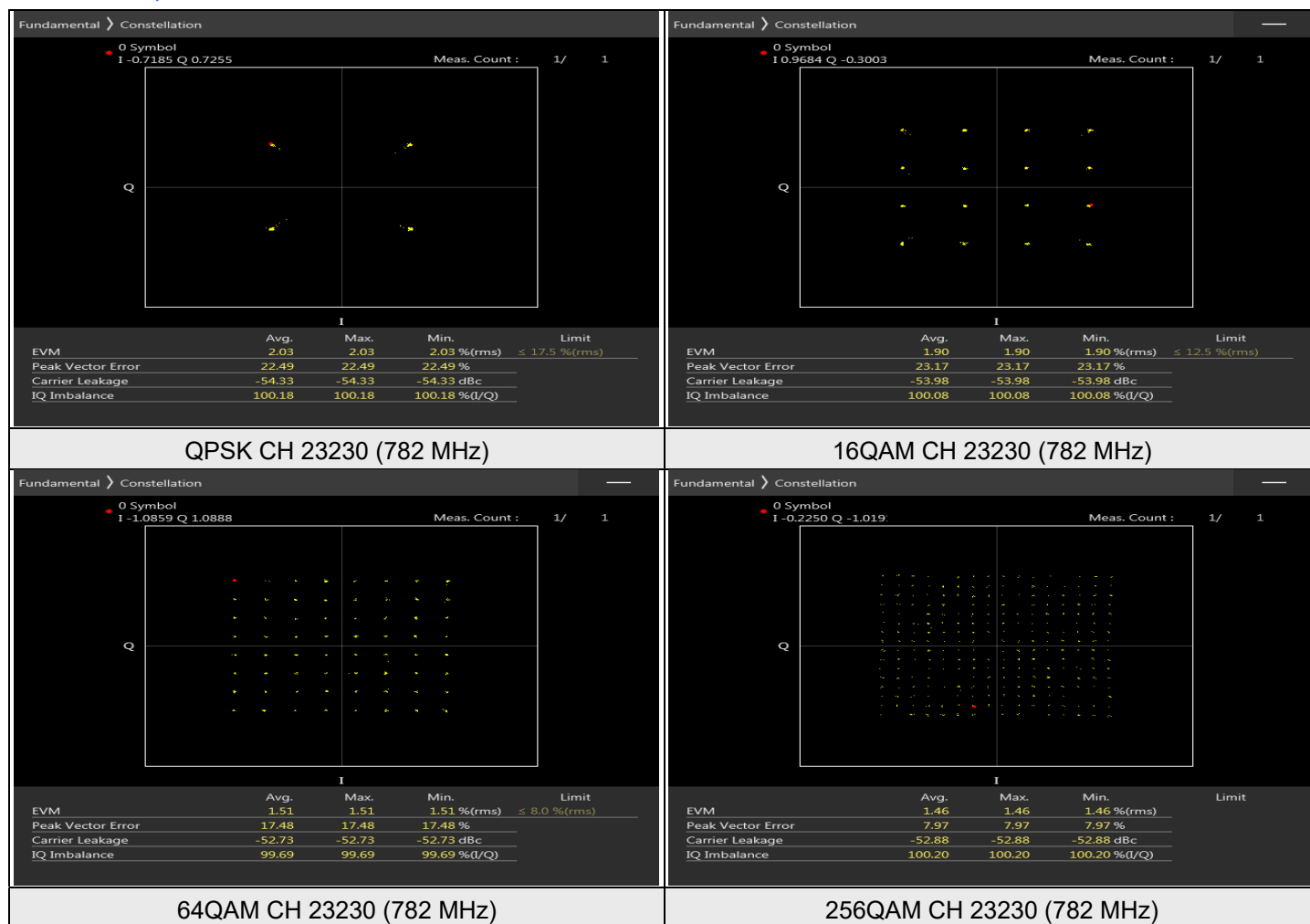
7.2.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 10 MHz



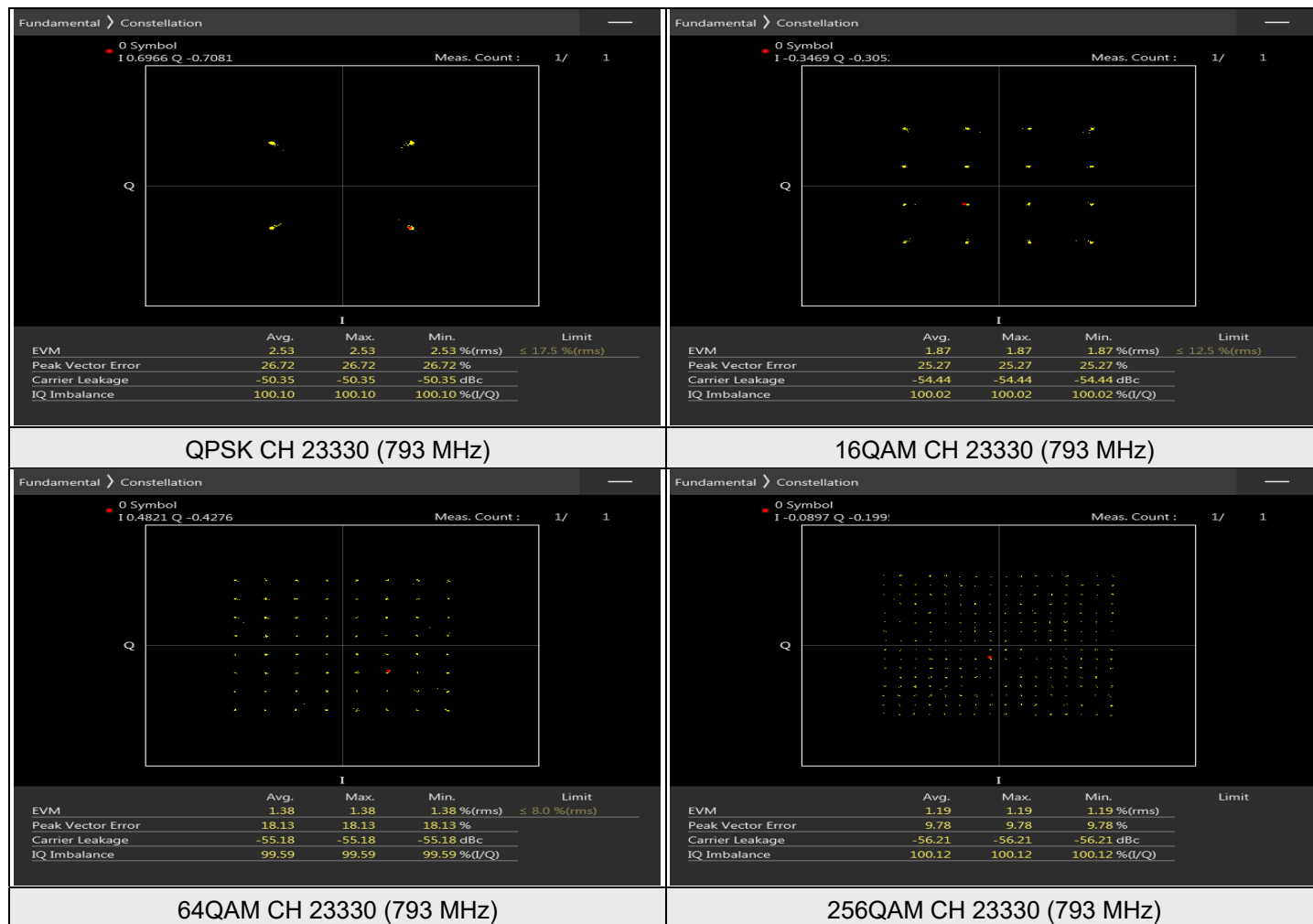
7.2.5 LTE Band 13

LTE Band 13, Channel Bandwidth: 10 MHz



7.2.6 LTE Band 14

LTE Band 14, Channel Bandwidth: 10 MHz



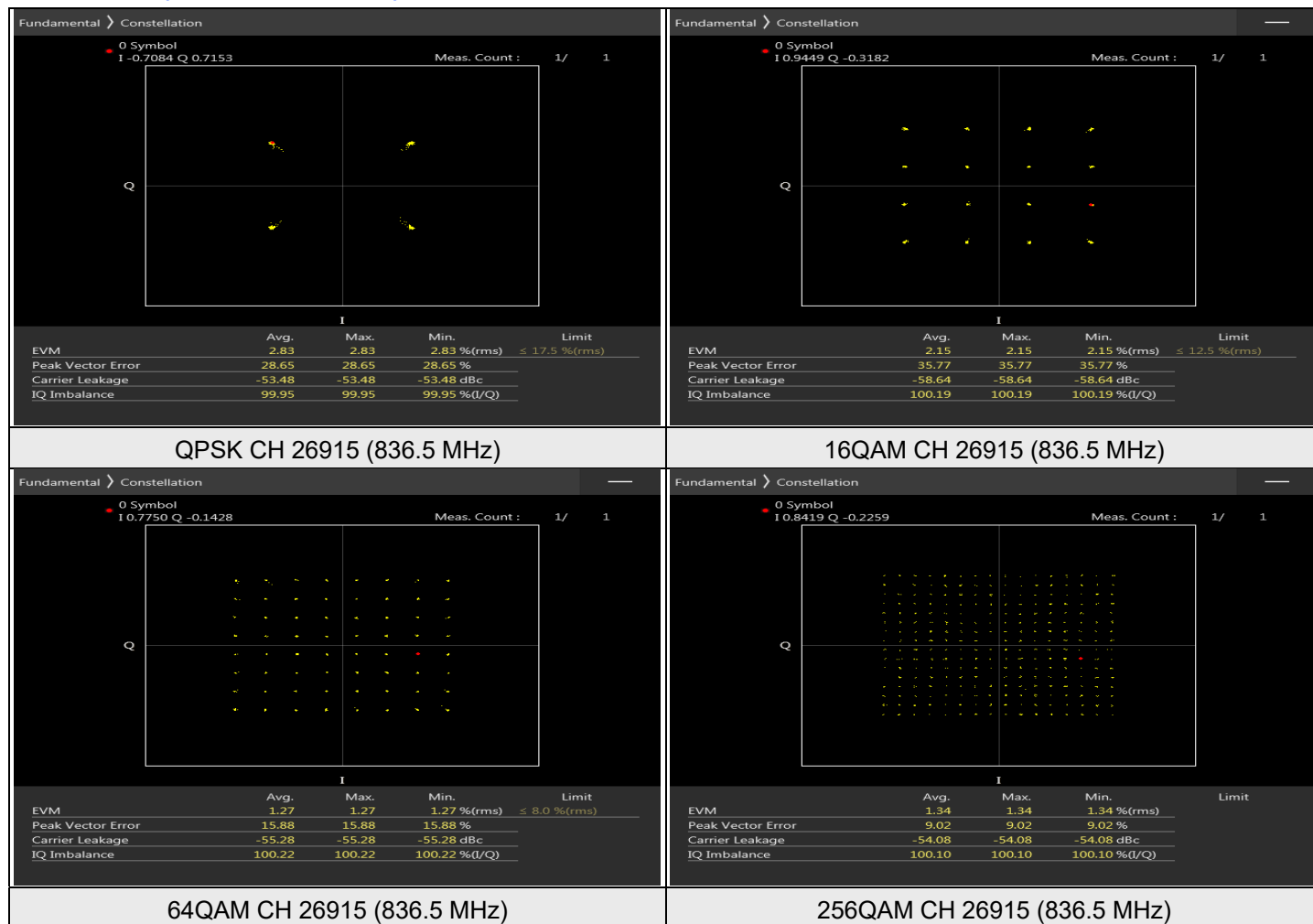
7.2.7 LTE Band 26 (814 MHz ~ 824 MHz)

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



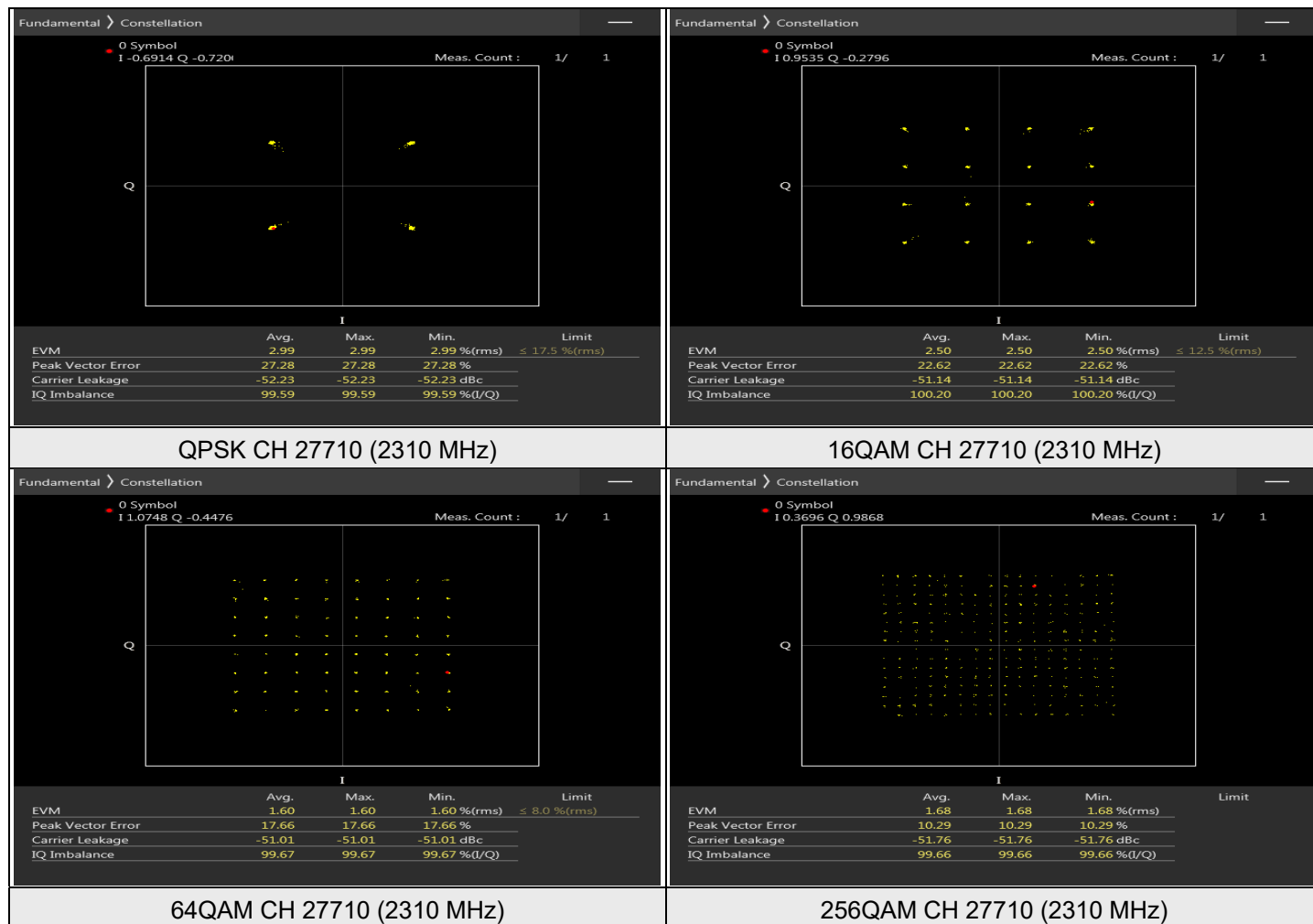
7.2.8 LTE Band 26 (824 MHz ~ 849 MHz)

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



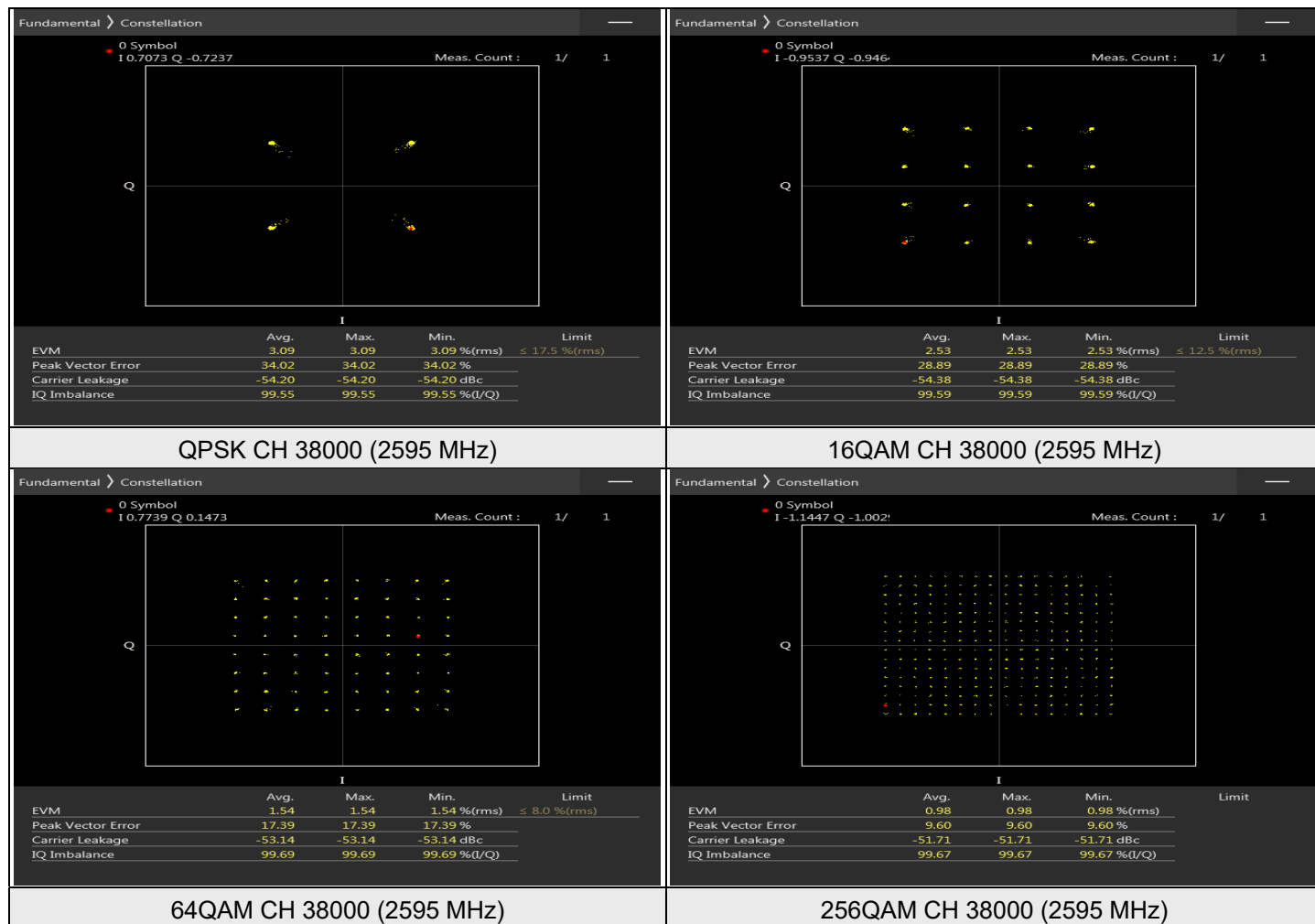
7.2.9 LTE Band 30

LTE Band 30, Channel Bandwidth: 10 MHz



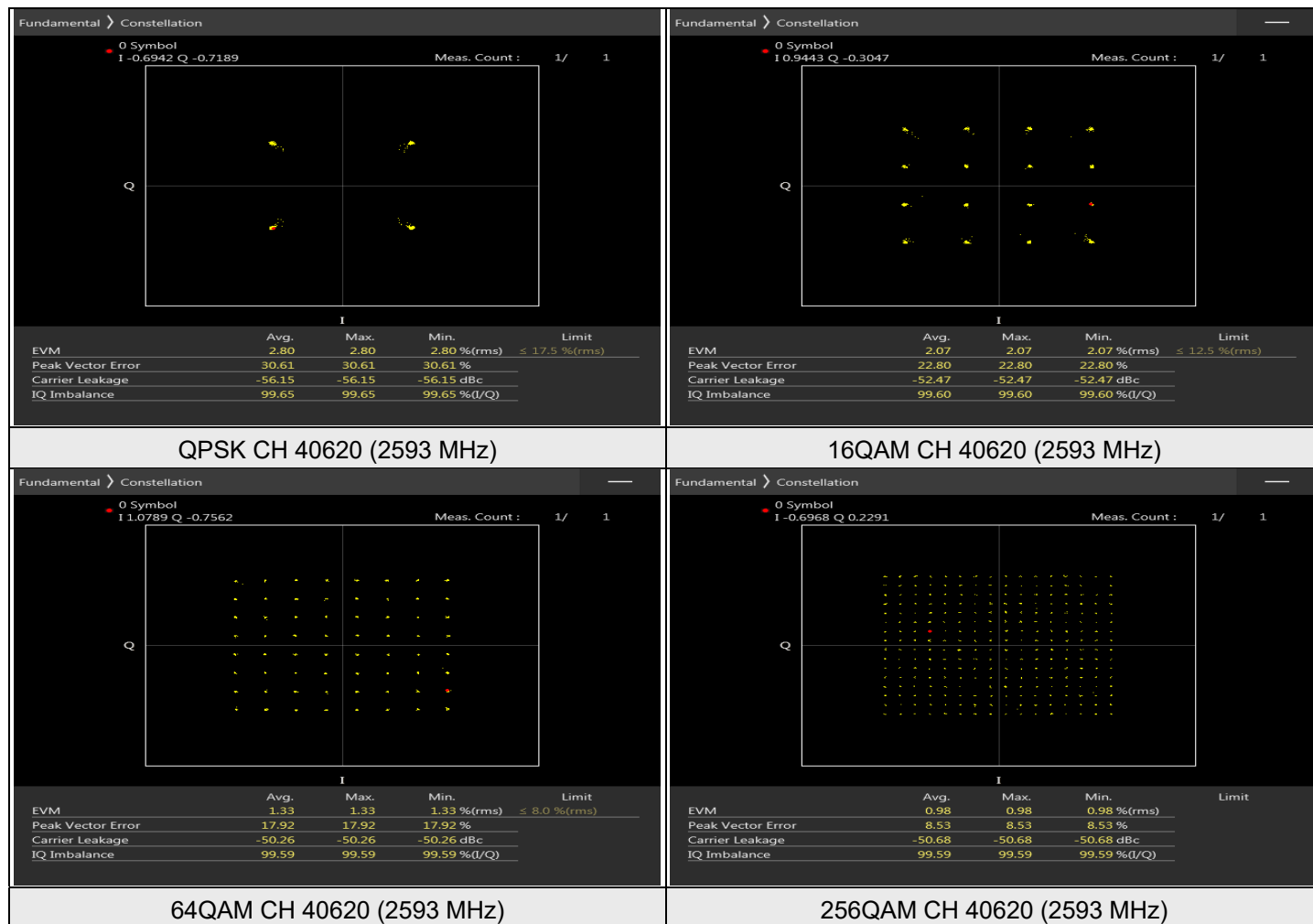
7.2.10 LTE Band 38

LTE Band 38, Channel Bandwidth: 20 MHz



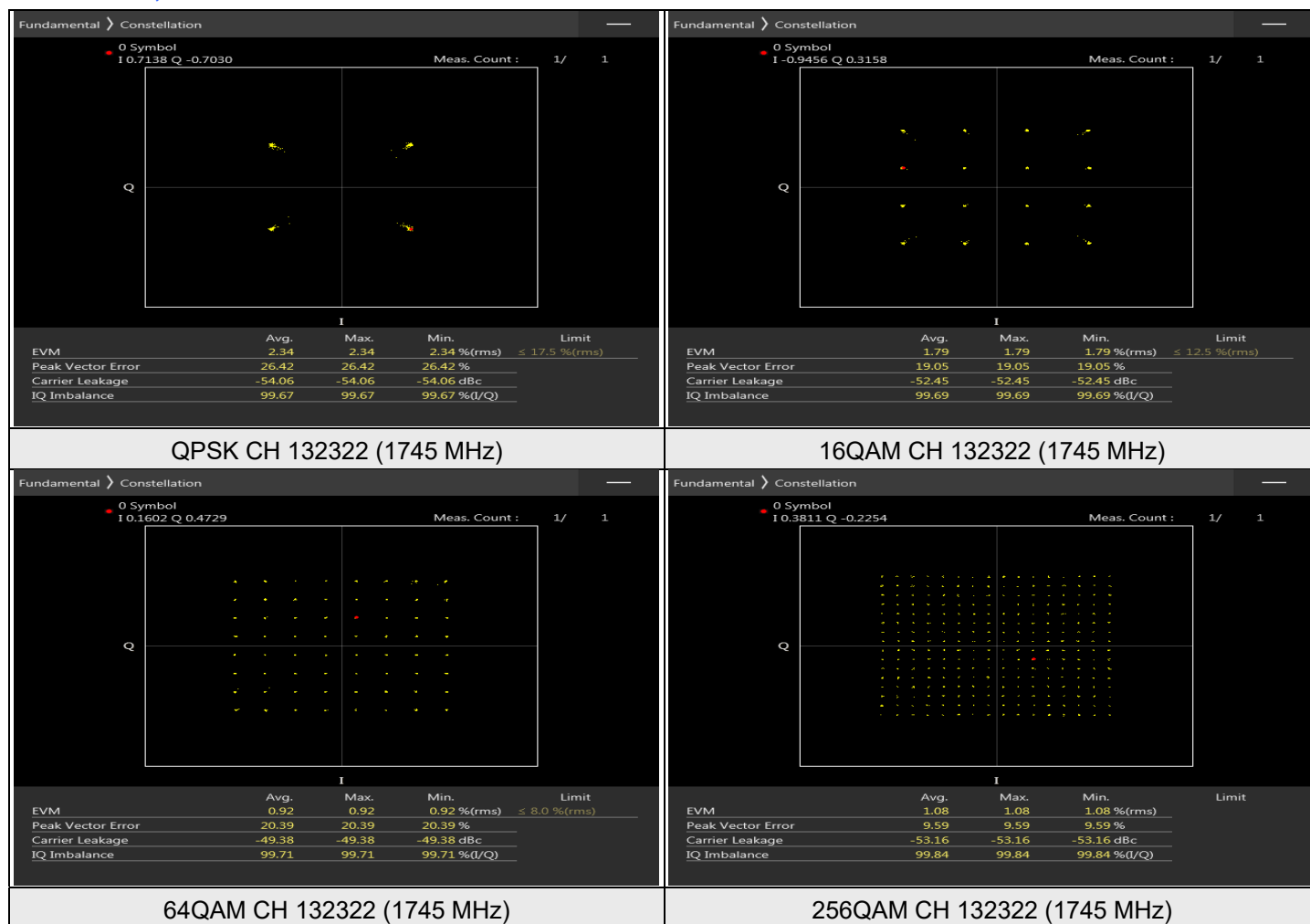
7.2.11 LTE Band 41

LTE Band 41, Channel Bandwidth: 20 MHz



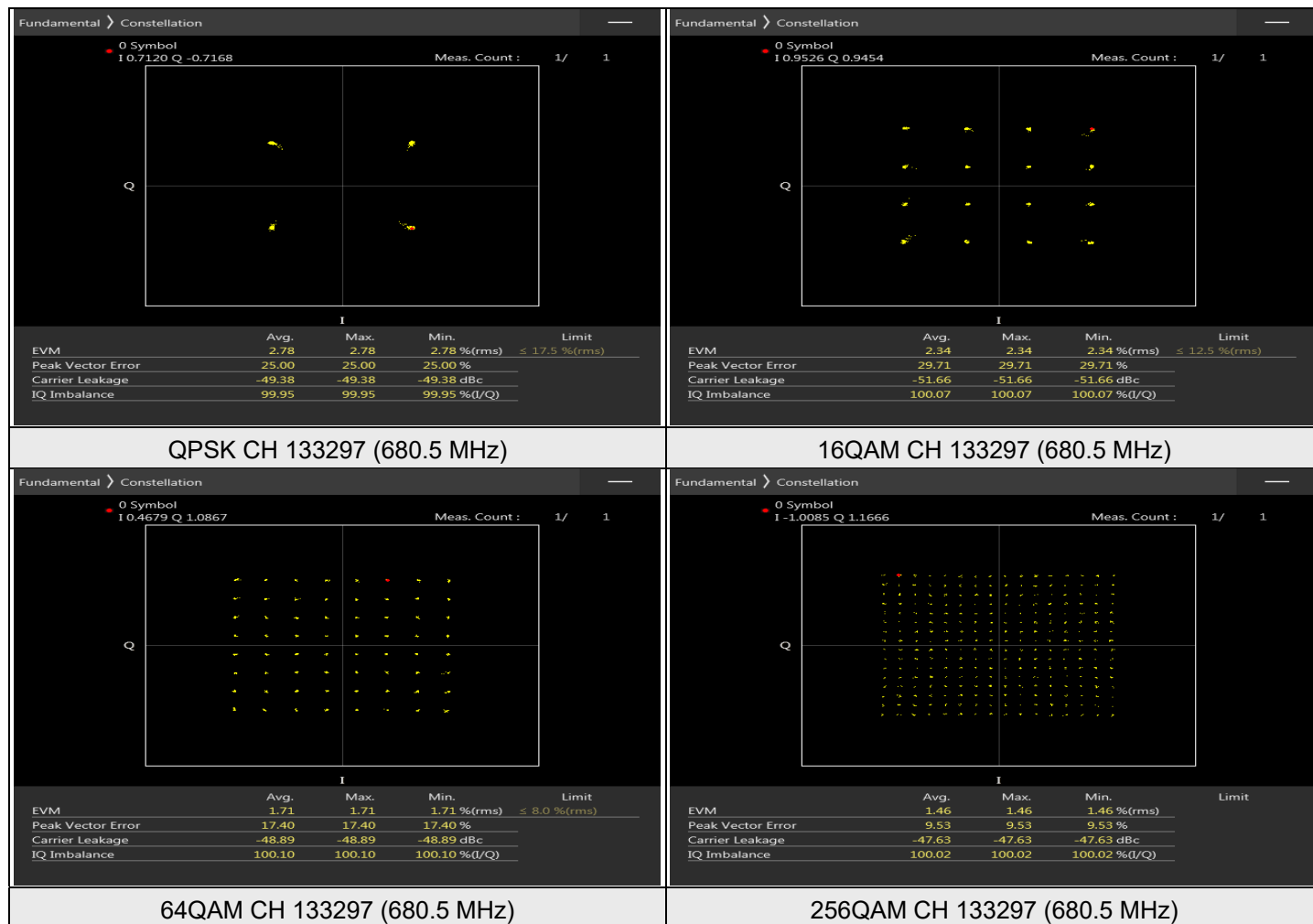
7.2.12 LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz



7.2.13 LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz



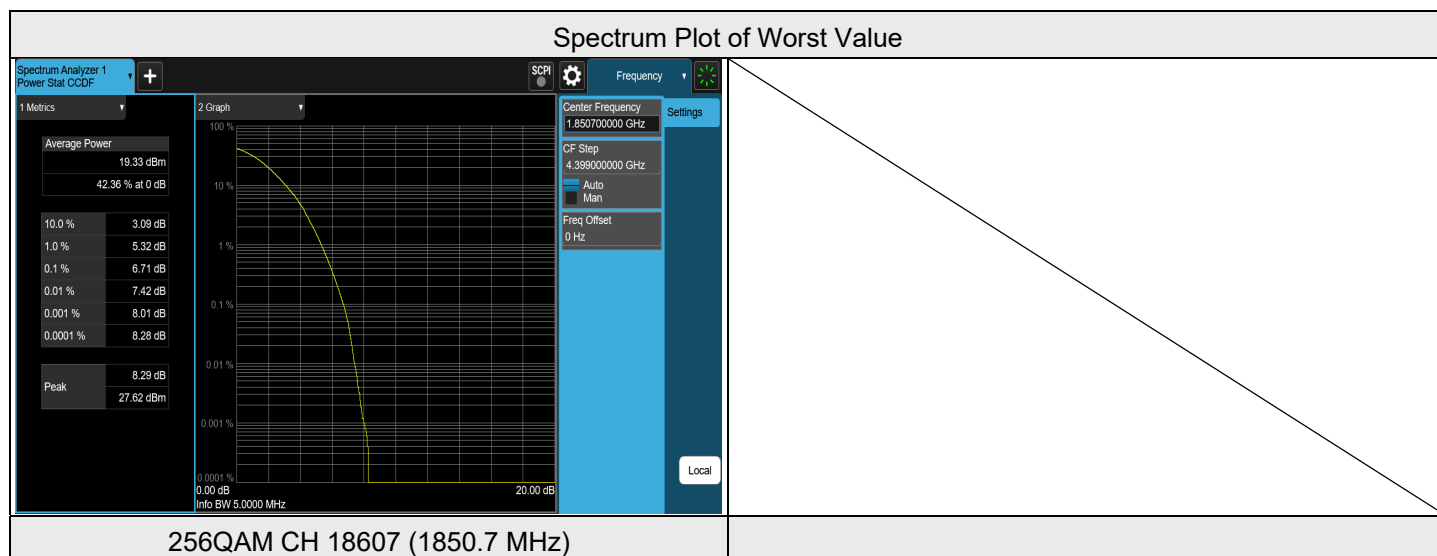
7.3 Peak to Average Ratio

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang
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7.3.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

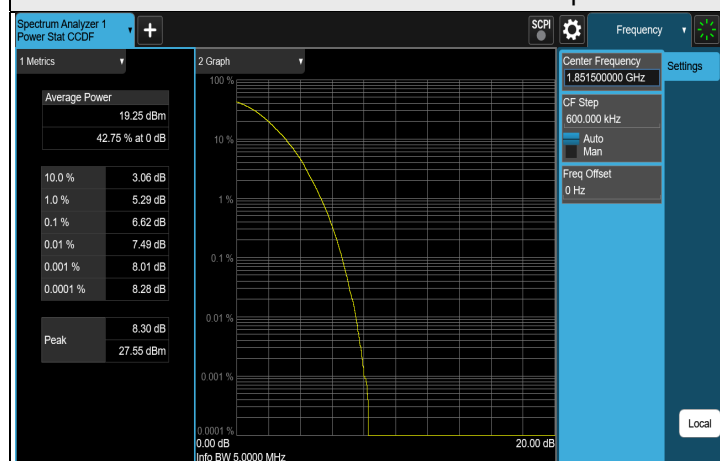
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18607	1850.7	3.34	13	PASS
QPSK	18900	1880	3.36	13	PASS
QPSK	19193	1909.3	3.06	13	PASS
16QAM	18607	1850.7	4.05	13	PASS
16QAM	18900	1880	4.32	13	PASS
16QAM	19193	1909.3	3.82	13	PASS
64QAM	18607	1850.7	5.01	13	PASS
64QAM	18900	1880	5.03	13	PASS
64QAM	19193	1909.3	4.74	13	PASS
256QAM	18607	1850.7	6.71	13	PASS
256QAM	18900	1880	6.65	13	PASS
256QAM	19193	1909.3	6.44	13	PASS



LTE Band 2, Channel Bandwidth: 3 MHz

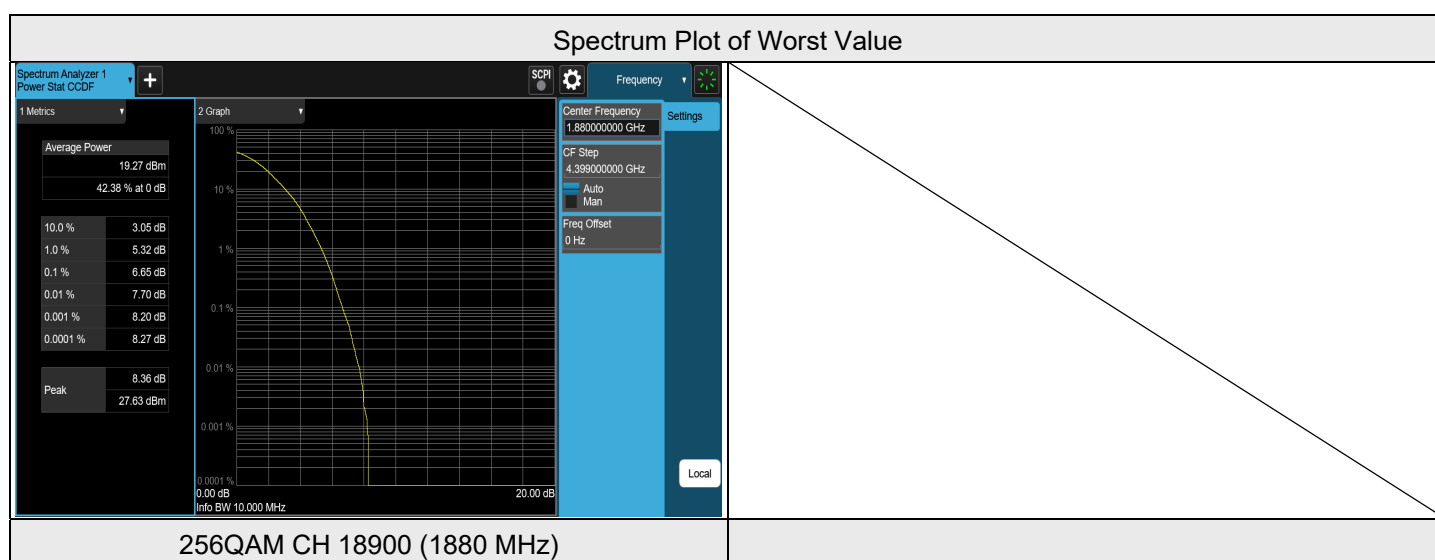
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18615	1851.5	3.36	13	PASS
QPSK	18900	1880	3.33	13	PASS
QPSK	19185	1908.5	3.18	13	PASS
16QAM	18615	1851.5	4.34	13	PASS
16QAM	18900	1880	4.33	13	PASS
16QAM	19185	1908.5	4.20	13	PASS
64QAM	18615	1851.5	5.26	13	PASS
64QAM	18900	1880	5.24	13	PASS
64QAM	19185	1908.5	5.03	13	PASS
256QAM	18615	1851.5	6.62	13	PASS
256QAM	18900	1880	6.58	13	PASS
256QAM	19185	1908.5	6.41	13	PASS

Spectrum Plot of Worst Value



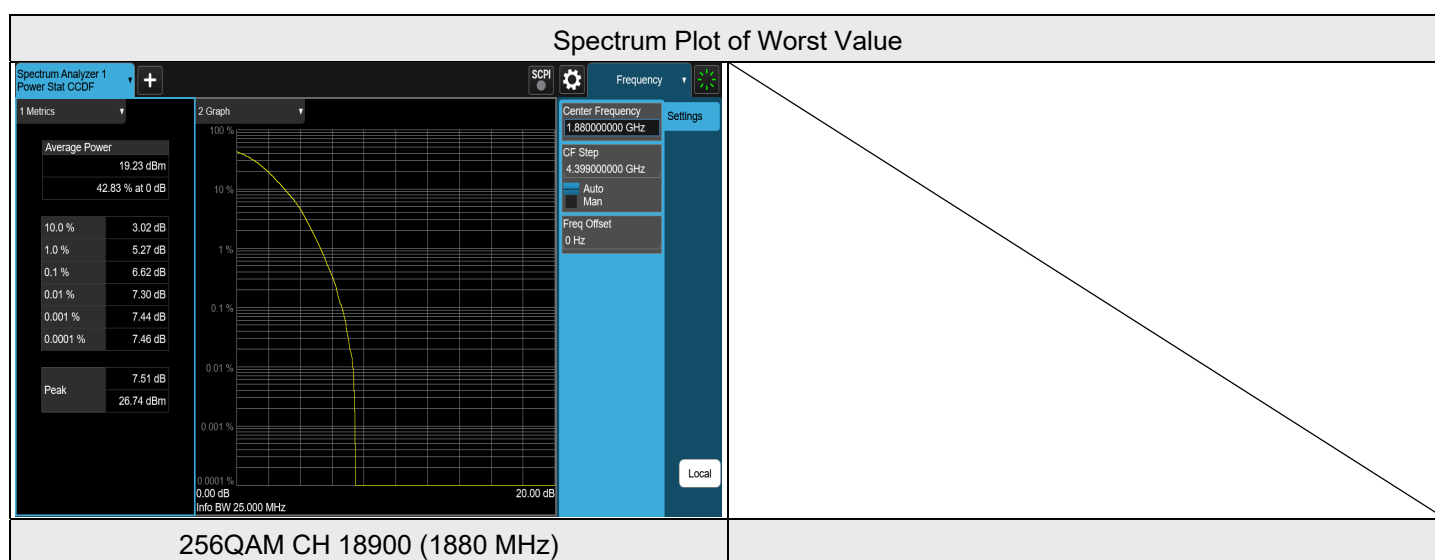
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18650	1855	3.59	13	PASS
QPSK	18900	1880	3.58	13	PASS
QPSK	19150	1905	3.38	13	PASS
16QAM	18650	1855	4.34	13	PASS
16QAM	18900	1880	4.42	13	PASS
16QAM	19150	1905	4.21	13	PASS
64QAM	18650	1855	5.33	13	PASS
64QAM	18900	1880	5.31	13	PASS
64QAM	19150	1905	5.14	13	PASS
256QAM	18650	1855	6.61	13	PASS
256QAM	18900	1880	6.65	13	PASS
256QAM	19150	1905	6.55	13	PASS



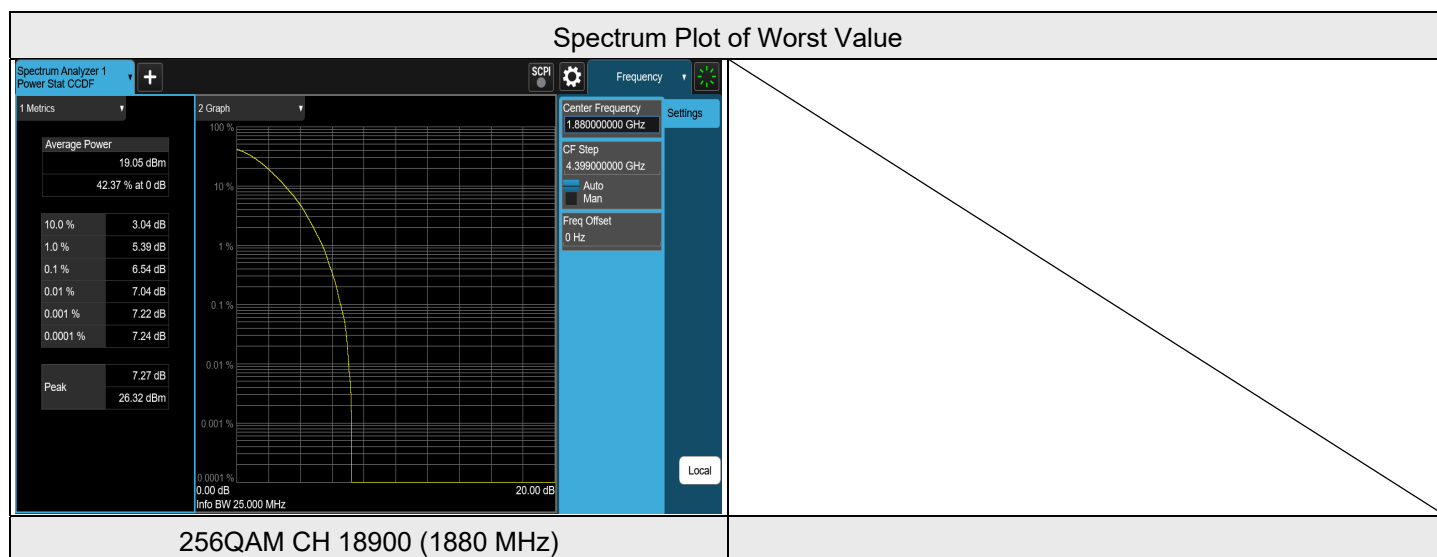
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18675	1857.5	3.49	13	PASS
QPSK	18900	1880	3.56	13	PASS
QPSK	19125	1902.5	3.24	13	PASS
16QAM	18675	1857.5	4.06	13	PASS
16QAM	18900	1880	4.02	13	PASS
16QAM	19125	1902.5	3.92	13	PASS
64QAM	18675	1857.5	5.26	13	PASS
64QAM	18900	1880	5.21	13	PASS
64QAM	19125	1902.5	5.05	13	PASS
256QAM	18675	1857.5	6.54	13	PASS
256QAM	18900	1880	6.62	13	PASS
256QAM	19125	1902.5	6.36	13	PASS



LTE Band 2, Channel Bandwidth: 20 MHz

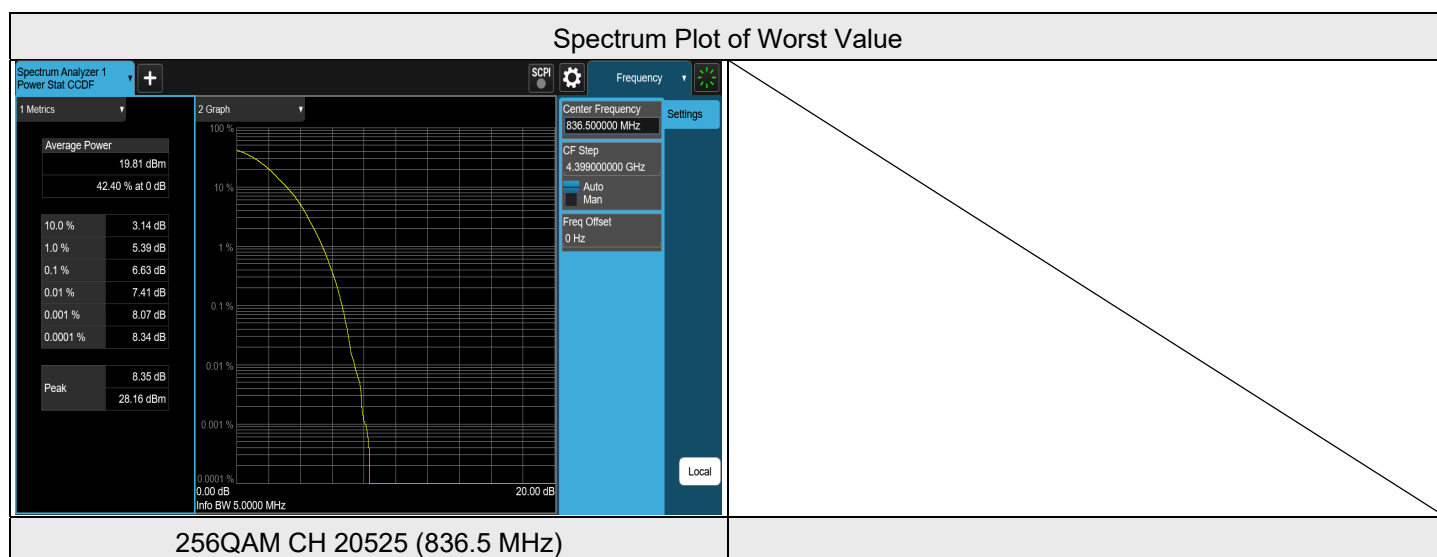
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18700	1860	3.55	13	PASS
QPSK	18900	1880	3.41	13	PASS
QPSK	19100	1900	3.62	13	PASS
16QAM	18700	1860	4.40	13	PASS
16QAM	18900	1880	4.38	13	PASS
16QAM	19100	1900	4.65	13	PASS
64QAM	18700	1860	5.34	13	PASS
64QAM	18900	1880	5.20	13	PASS
64QAM	19100	1900	5.26	13	PASS
256QAM	18700	1860	6.39	13	PASS
256QAM	18900	1880	6.54	13	PASS
256QAM	19100	1900	6.53	13	PASS



7.3.2 LTE Band 5

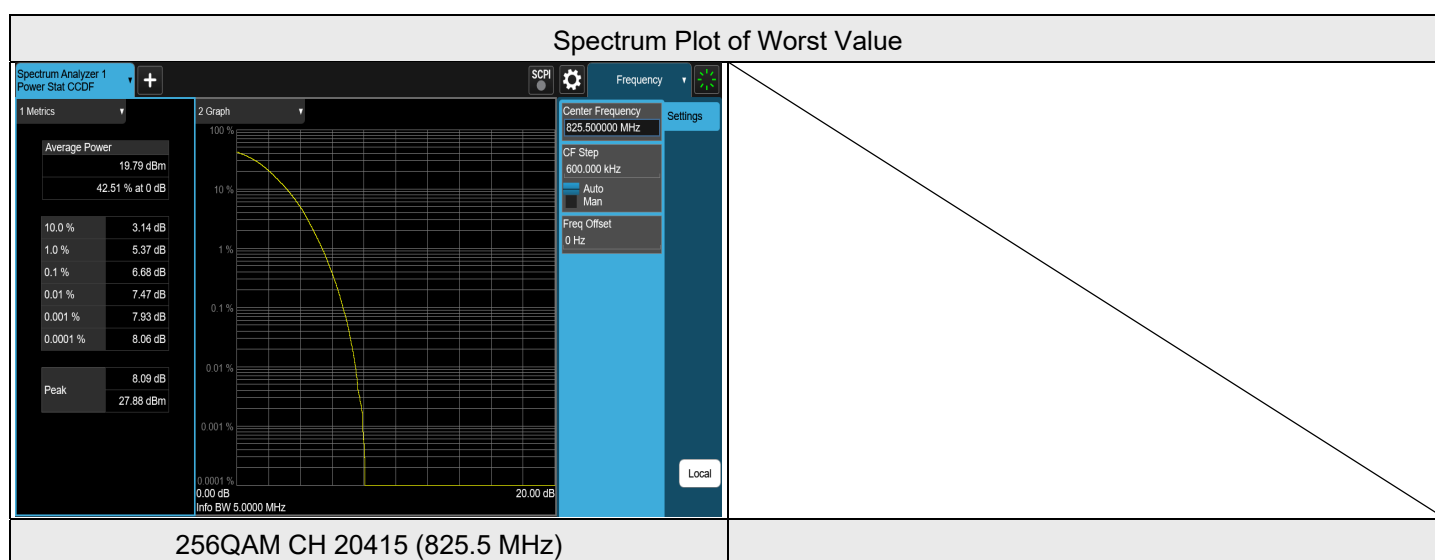
LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20407	824.7	3.43	13	PASS
QPSK	20525	836.5	3.54	13	PASS
QPSK	20643	848.3	3.31	13	PASS
16QAM	20407	824.7	4.36	13	PASS
16QAM	20525	836.5	4.27	13	PASS
16QAM	20643	848.3	4.08	13	PASS
64QAM	20407	824.7	4.17	13	PASS
64QAM	20525	836.5	5.08	13	PASS
64QAM	20643	848.3	4.98	13	PASS
256QAM	20407	824.7	6.60	13	PASS
256QAM	20525	836.5	6.63	13	PASS
256QAM	20643	848.3	6.47	13	PASS



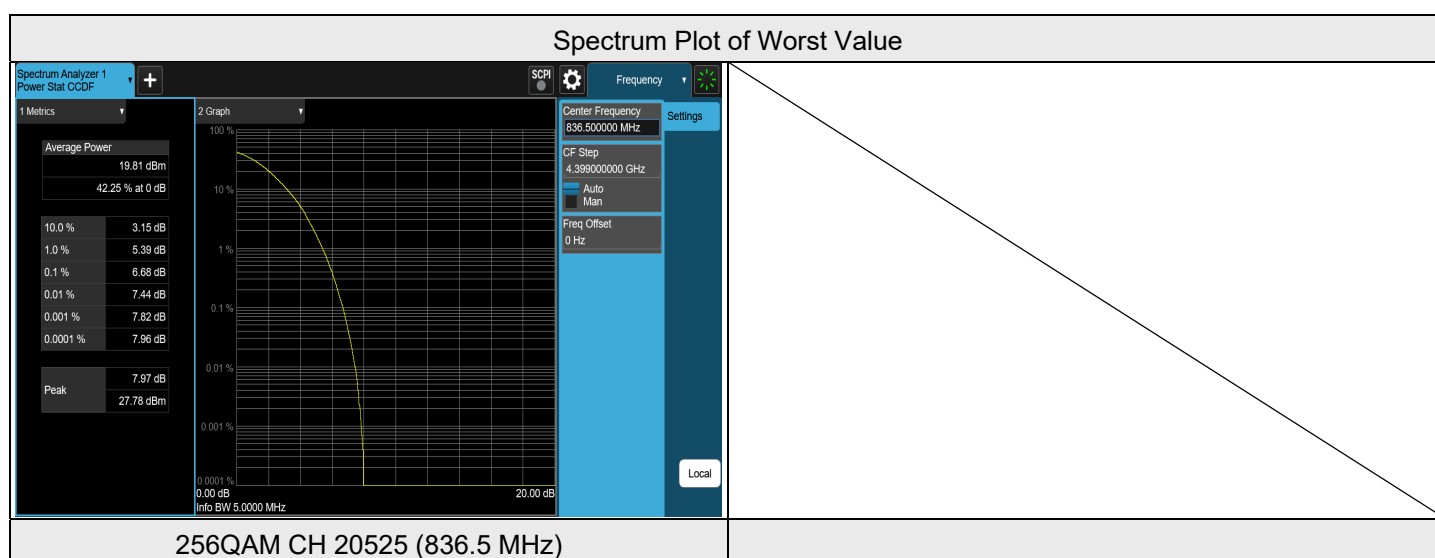
LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20415	825.5	3.54	13	PASS
QPSK	20525	836.5	3.42	13	PASS
QPSK	20635	847.5	3.48	13	PASS
16QAM	20415	825.5	4.41	13	PASS
16QAM	20525	836.5	4.48	13	PASS
16QAM	20635	847.5	4.48	13	PASS
64QAM	20415	825.5	5.31	13	PASS
64QAM	20525	836.5	5.30	13	PASS
64QAM	20635	847.5	5.32	13	PASS
256QAM	20415	825.5	6.68	13	PASS
256QAM	20525	836.5	6.65	13	PASS
256QAM	20635	847.5	6.44	13	PASS



LTE Band 5, Channel Bandwidth: 5 MHz

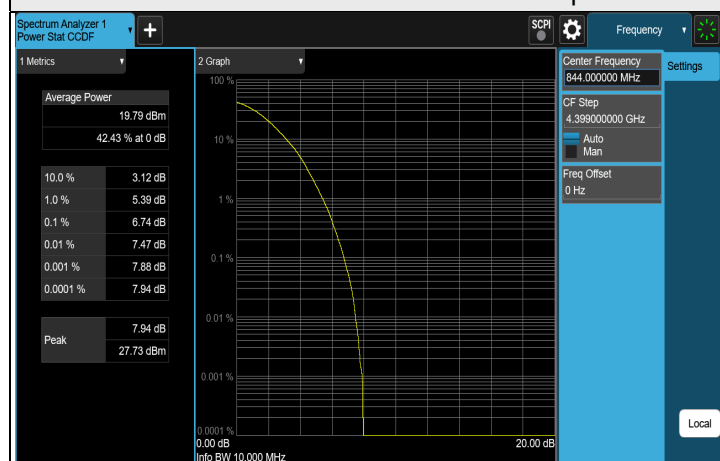
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20425	826.5	3.66	13	PASS
QPSK	20525	836.5	3.69	13	PASS
QPSK	20625	846.5	3.79	13	PASS
16QAM	20425	826.5	4.45	13	PASS
16QAM	20525	836.5	4.44	13	PASS
16QAM	20625	846.5	4.55	13	PASS
64QAM	20425	826.5	5.22	13	PASS
64QAM	20525	836.5	5.28	13	PASS
64QAM	20625	846.5	5.33	13	PASS
256QAM	20425	826.5	6.61	13	PASS
256QAM	20525	836.5	6.68	13	PASS
256QAM	20625	846.5	6.49	13	PASS



LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20450	829	3.65	13	PASS
QPSK	20525	836.5	3.89	13	PASS
QPSK	20600	844	3.76	13	PASS
16QAM	20450	829	4.64	13	PASS
16QAM	20525	836.5	4.53	13	PASS
16QAM	20600	844	4.47	13	PASS
64QAM	20450	829	5.37	13	PASS
64QAM	20525	836.5	5.43	13	PASS
64QAM	20600	844	5.33	13	PASS
256QAM	20450	829	6.56	13	PASS
256QAM	20525	836.5	6.64	13	PASS
256QAM	20600	844	6.74	13	PASS

Spectrum Plot of Worst Value

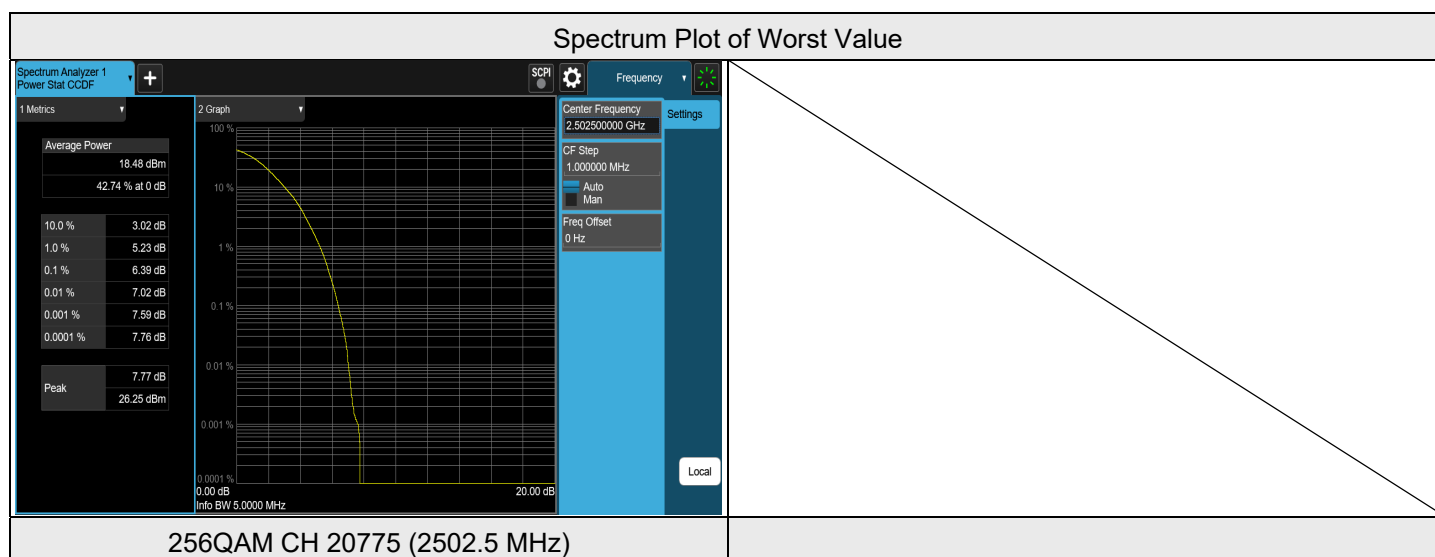


256QAM CH 20600 (844 MHz)

7.3.3 LTE Band 7

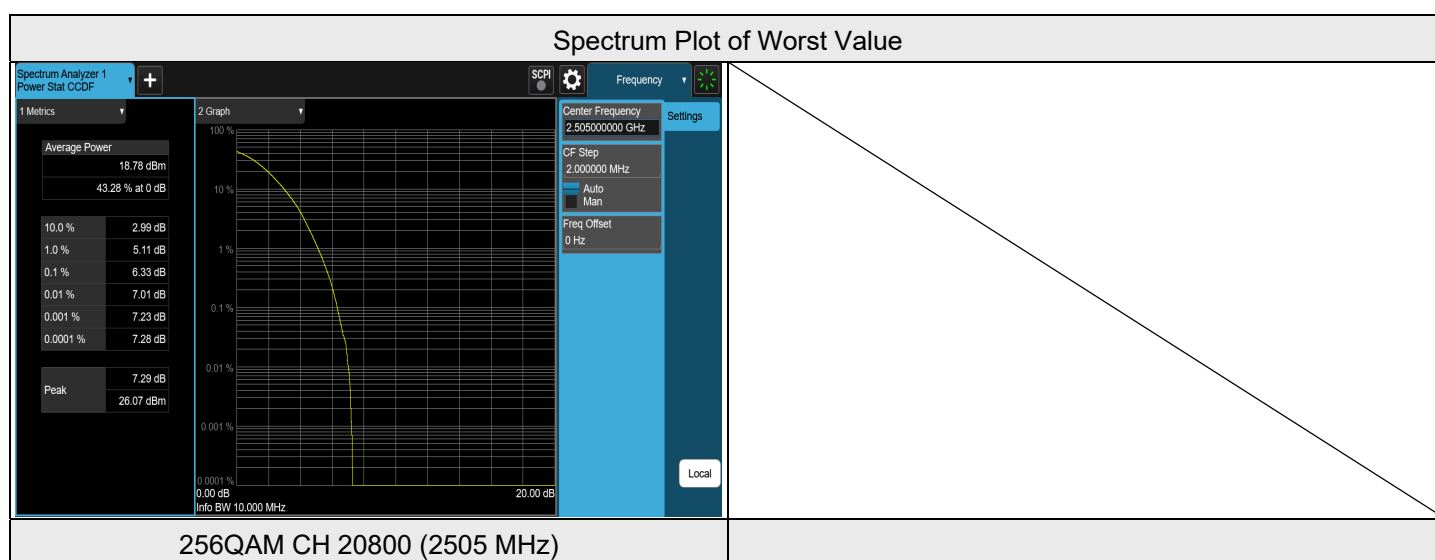
LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20775	2502.5	3.15	13	PASS
QPSK	21100	2535	3.53	13	PASS
QPSK	21425	2567.5	3.02	13	PASS
16QAM	20775	2502.5	3.92	13	PASS
16QAM	21100	2535	4.28	13	PASS
16QAM	21425	2567.5	3.75	13	PASS
64QAM	20775	2502.5	4.71	13	PASS
64QAM	21100	2535	5.03	13	PASS
64QAM	21425	2567.5	4.69	13	PASS
256QAM	20775	2502.5	6.39	13	PASS
256QAM	21100	2535	6.34	13	PASS
256QAM	21425	2567.5	6.21	13	PASS



LTE Band 7, Channel Bandwidth: 10 MHz

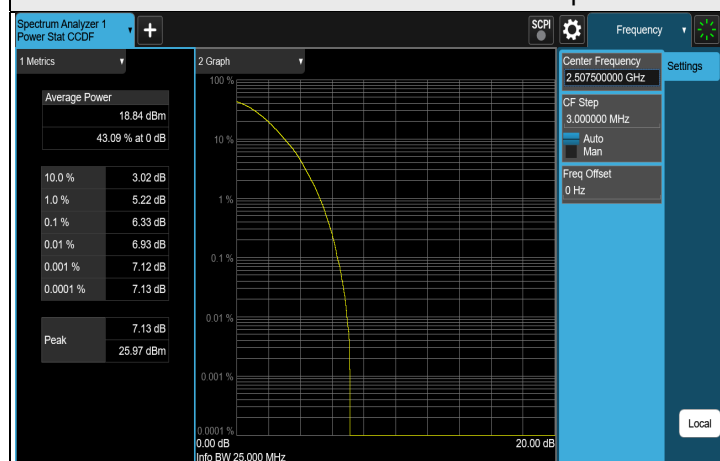
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20800	2505	3.14	13	PASS
QPSK	21100	2535	3.45	13	PASS
QPSK	21400	2565	3.10	13	PASS
16QAM	20800	2505	3.89	13	PASS
16QAM	21100	2535	4.19	13	PASS
16QAM	21400	2565	3.95	13	PASS
64QAM	20800	2505	4.83	13	PASS
64QAM	21100	2535	5.05	13	PASS
64QAM	21400	2565	4.77	13	PASS
256QAM	20800	2505	6.33	13	PASS
256QAM	21100	2535	6.28	13	PASS
256QAM	21400	2565	6.15	13	PASS



LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20825	2507.5	3.14	13	PASS
QPSK	21100	2535	3.42	13	PASS
QPSK	21375	2562.5	2.98	13	PASS
16QAM	20825	2507.5	3.76	13	PASS
16QAM	21100	2535	3.95	13	PASS
16QAM	21375	2562.5	3.66	13	PASS
64QAM	20825	2507.5	4.72	13	PASS
64QAM	21100	2535	4.91	13	PASS
64QAM	21375	2562.5	4.71	13	PASS
256QAM	20825	2507.5	6.33	13	PASS
256QAM	21100	2535	6.23	13	PASS
256QAM	21375	2562.5	6.21	13	PASS

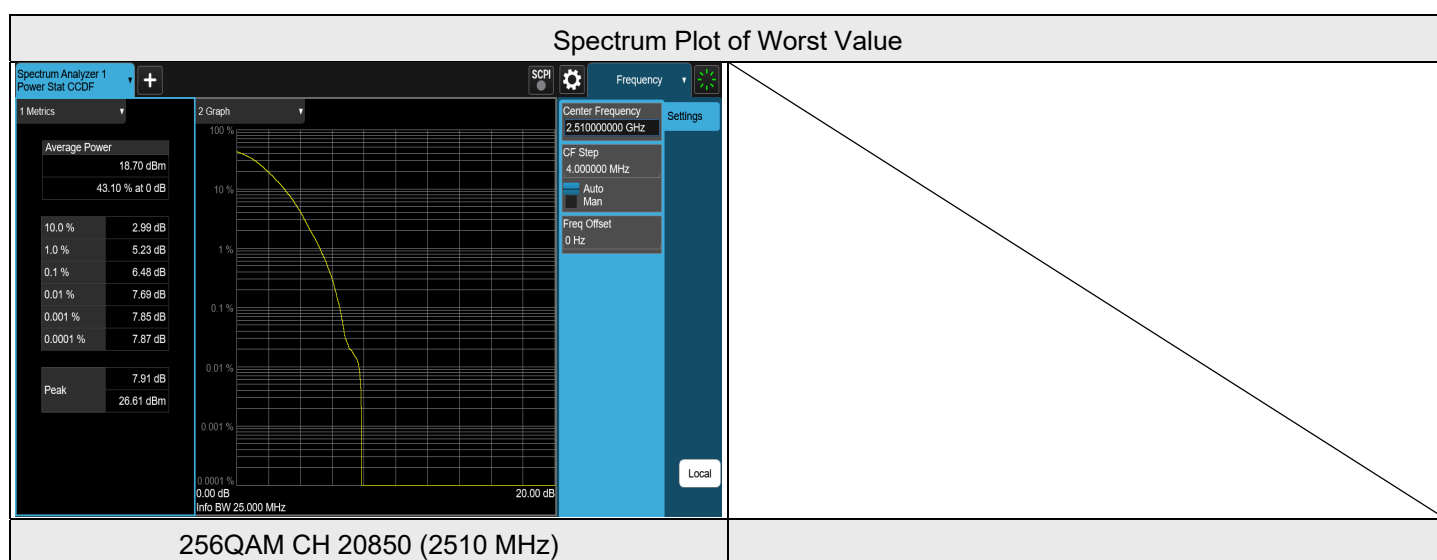
Spectrum Plot of Worst Value



256QAM CH 20825 (2507.5 MHz)

LTE Band 7, Channel Bandwidth: 20 MHz

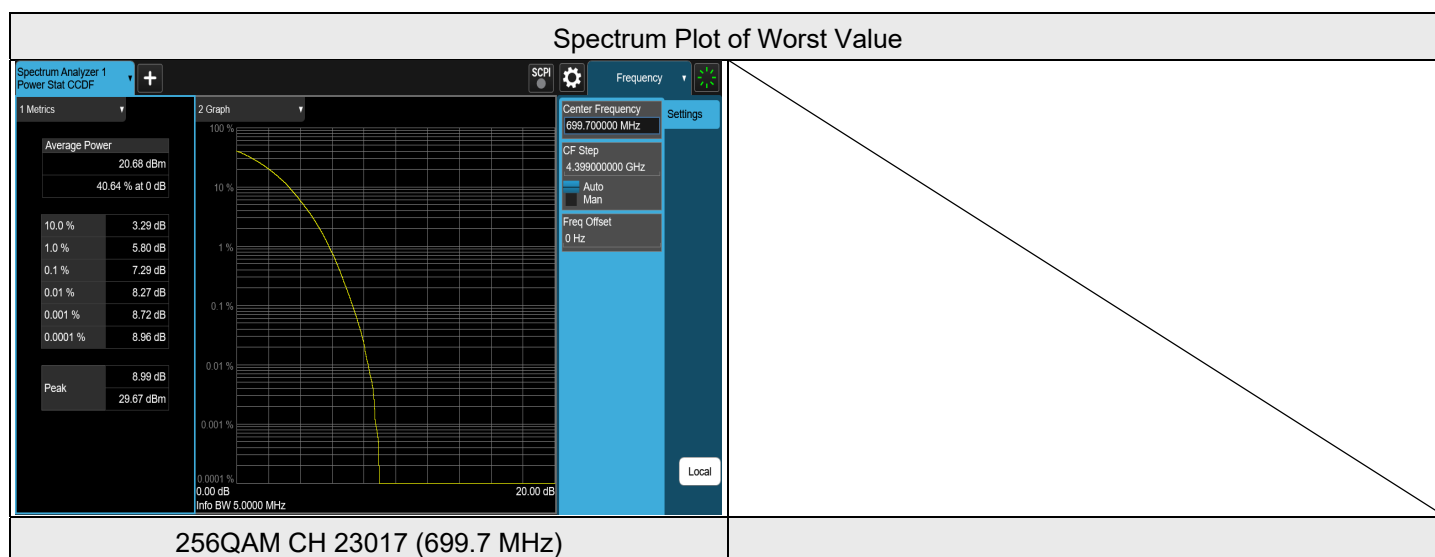
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20850	2510	3.01	13	PASS
QPSK	21100	2535	3.10	13	PASS
QPSK	21350	2560	3.25	13	PASS
16QAM	20850	2510	3.86	13	PASS
16QAM	21100	2535	3.95	13	PASS
16QAM	21350	2560	3.75	13	PASS
64QAM	20850	2510	4.82	13	PASS
64QAM	21100	2535	4.86	13	PASS
64QAM	21350	2560	4.81	13	PASS
256QAM	20850	2510	6.48	13	PASS
256QAM	21100	2535	6.23	13	PASS
256QAM	21350	2560	6.33	13	PASS



7.3.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

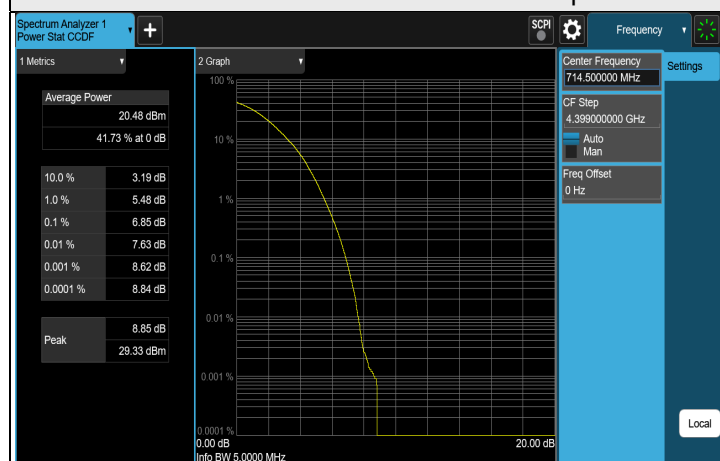
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23017	699.7	3.60	13	PASS
QPSK	23095	707.5	3.43	13	PASS
QPSK	23173	715.3	3.38	13	PASS
16QAM	23017	699.7	4.92	13	PASS
16QAM	23095	707.5	4.07	13	PASS
16QAM	23173	715.3	4.03	13	PASS
64QAM	23017	699.7	5.20	13	PASS
64QAM	23095	707.5	4.24	13	PASS
64QAM	23173	715.3	4.15	13	PASS
256QAM	23017	699.7	7.29	13	PASS
256QAM	23095	707.5	6.79	13	PASS
256QAM	23173	715.3	6.67	13	PASS



LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23025	700.5	4.24	13	PASS
QPSK	23095	707.5	3.26	13	PASS
QPSK	23165	714.5	3.86	13	PASS
16QAM	23025	700.5	5.30	13	PASS
16QAM	23095	707.5	4.21	13	PASS
16QAM	23165	714.5	4.91	13	PASS
64QAM	23025	700.5	6.14	13	PASS
64QAM	23095	707.5	5.16	13	PASS
64QAM	23165	714.5	5.63	13	PASS
256QAM	23025	700.5	6.82	13	PASS
256QAM	23095	707.5	6.76	13	PASS
256QAM	23165	714.5	6.85	13	PASS

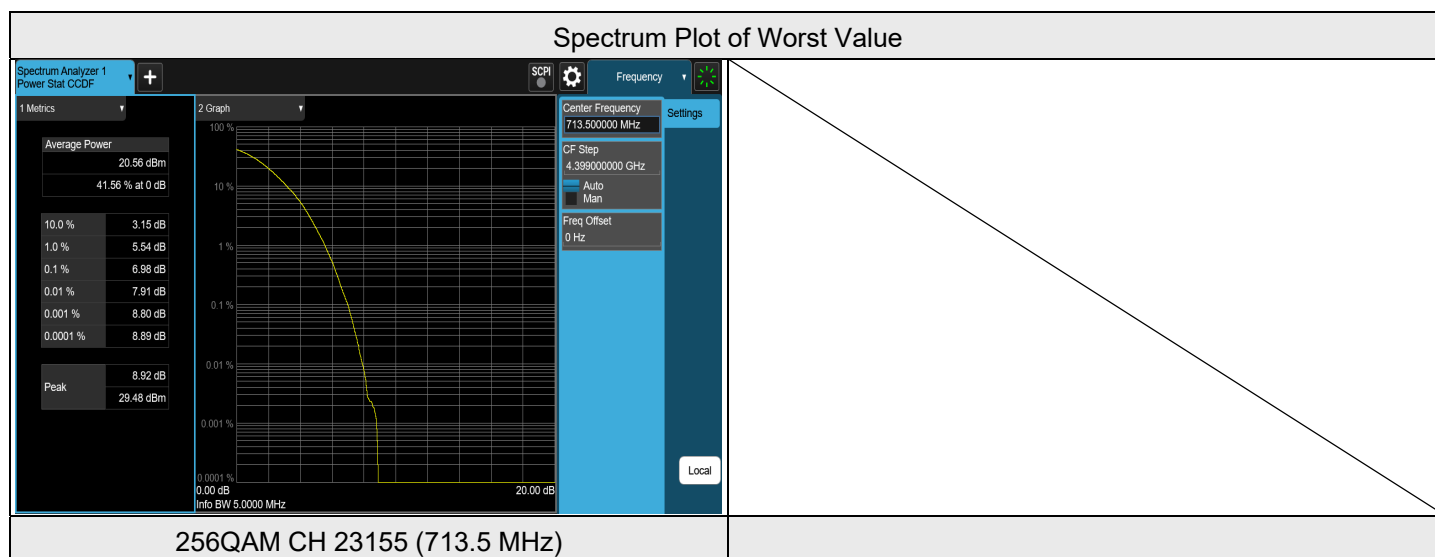
Spectrum Plot of Worst Value



256QAM CH 23165 (714.5 MHz)

LTE Band 12, Channel Bandwidth: 5 MHz

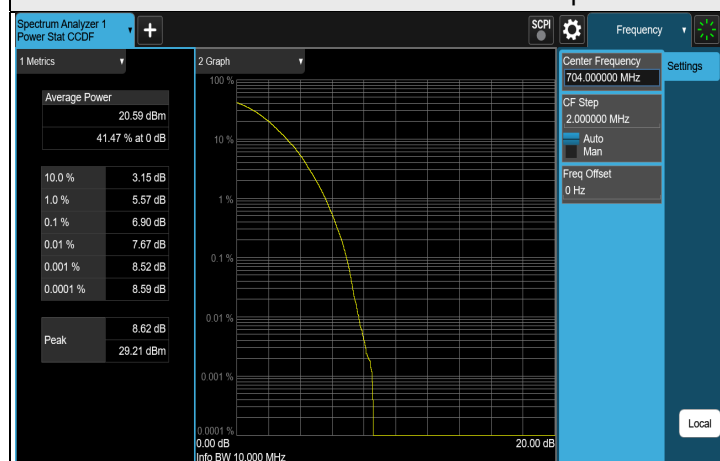
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23035	701.5	4.48	13	PASS
QPSK	23095	707.5	3.49	13	PASS
QPSK	23155	713.5	3.94	13	PASS
16QAM	23035	701.5	5.18	13	PASS
16QAM	23095	707.5	4.29	13	PASS
16QAM	23155	713.5	4.84	13	PASS
64QAM	23035	701.5	6.09	13	PASS
64QAM	23095	707.5	5.15	13	PASS
64QAM	23155	713.5	5.62	13	PASS
256QAM	23035	701.5	6.87	13	PASS
256QAM	23095	707.5	6.85	13	PASS
256QAM	23155	713.5	6.98	13	PASS



LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23060	704	4.19	13	PASS
QPSK	23095	707.5	3.81	13	PASS
QPSK	23130	711	3.41	13	PASS
16QAM	23060	704	5.16	13	PASS
16QAM	23095	707.5	4.69	13	PASS
16QAM	23130	711	4.20	13	PASS
64QAM	23060	704	6.11	13	PASS
64QAM	23095	707.5	5.59	13	PASS
64QAM	23130	711	5.19	13	PASS
256QAM	23060	704	6.90	13	PASS
256QAM	23095	707.5	6.86	13	PASS
256QAM	23130	711	6.80	13	PASS

Spectrum Plot of Worst Value

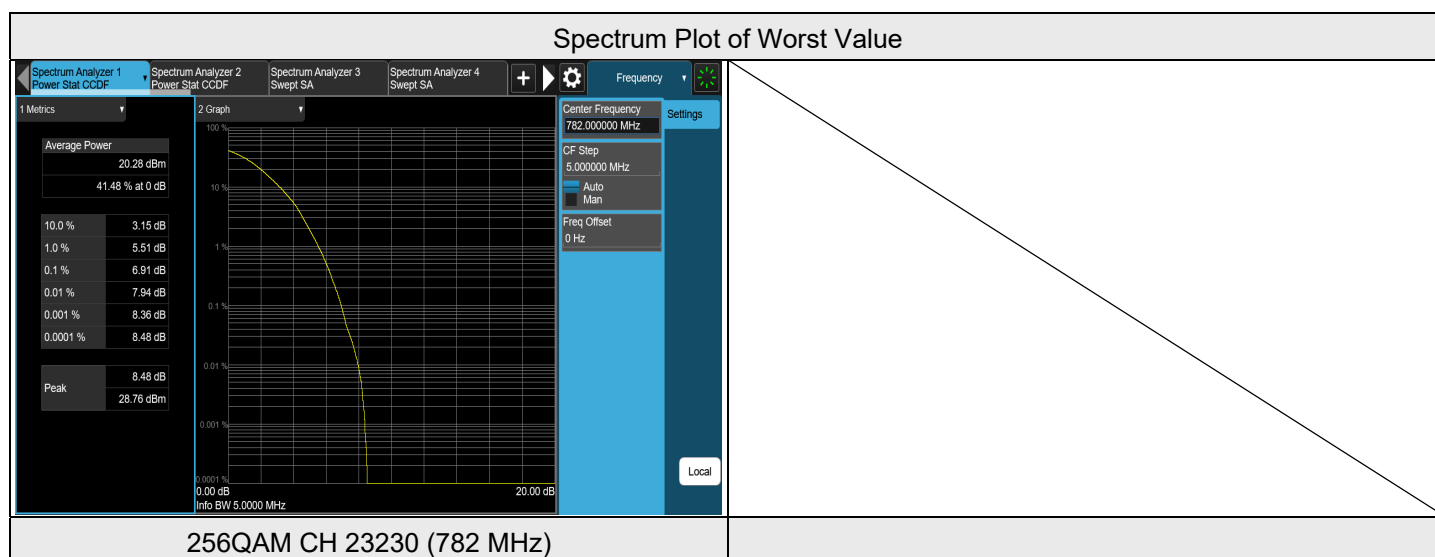


256QAM CH 23060 (704 MHz)

7.3.5 LTE Band 13

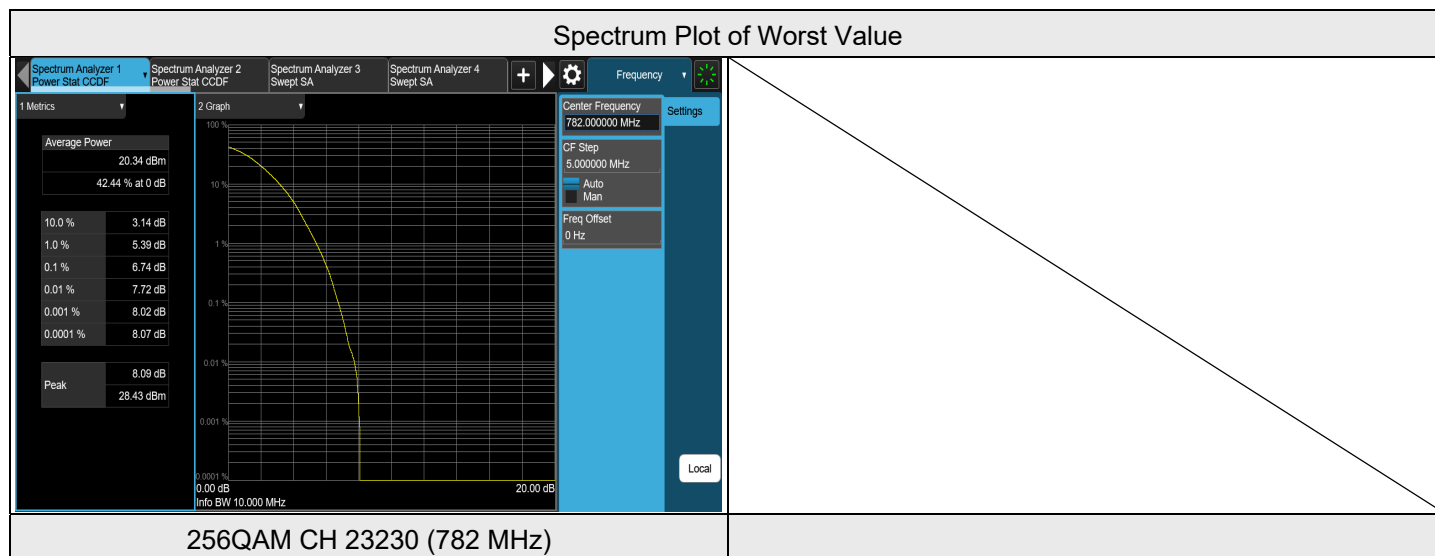
LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23205	779.5	3.81	13	PASS
QPSK	23230	782	4.23	13	PASS
QPSK	23255	784.5	3.83	13	PASS
16QAM	23205	779.5	4.65	13	PASS
16QAM	23230	782	4.74	13	PASS
16QAM	23255	784.5	4.56	13	PASS
64QAM	23205	779.5	4.71	13	PASS
64QAM	23230	782	4.84	13	PASS
64QAM	23255	784.5	4.73	13	PASS
256QAM	23205	779.5	6.65	13	PASS
256QAM	23230	782	6.91	13	PASS
256QAM	23255	784.5	6.88	13	PASS



LTE Band 13, Channel Bandwidth: 10 MHz

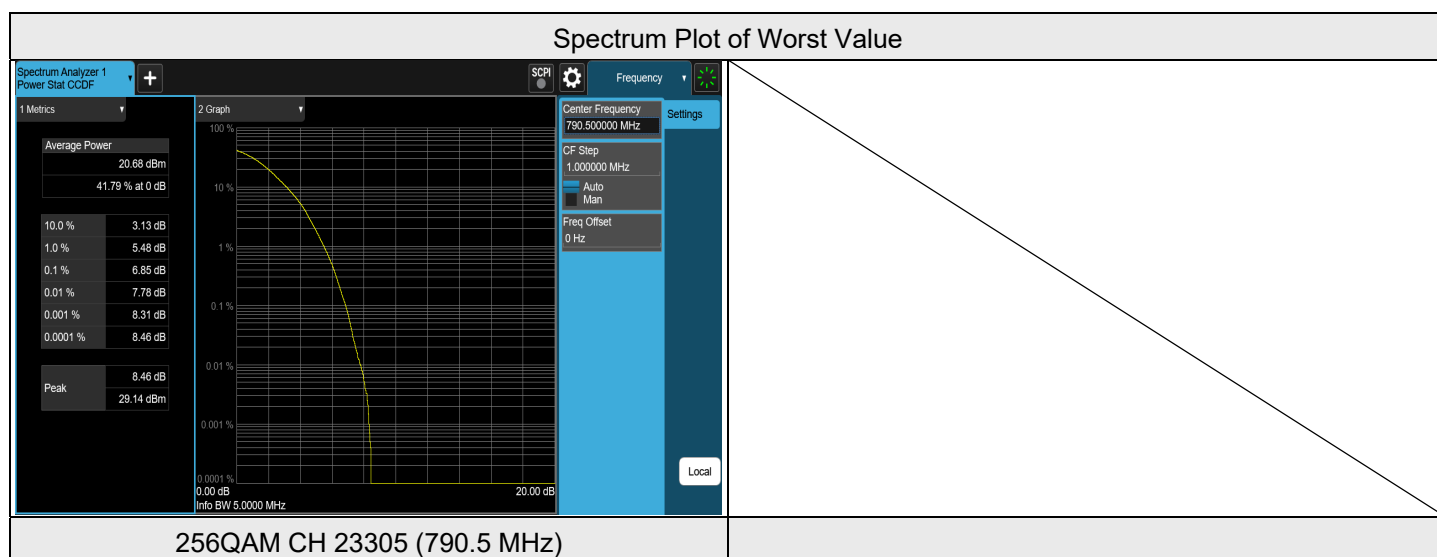
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23230	782	4.24	13	PASS
16QAM	23230	782	5.07	13	PASS
64QAM	23230	782	5.69	13	PASS
256QAM	23230	782	6.74	13	PASS



7.3.6 LTE Band 14

LTE Band 14, Channel Bandwidth: 5 MHz

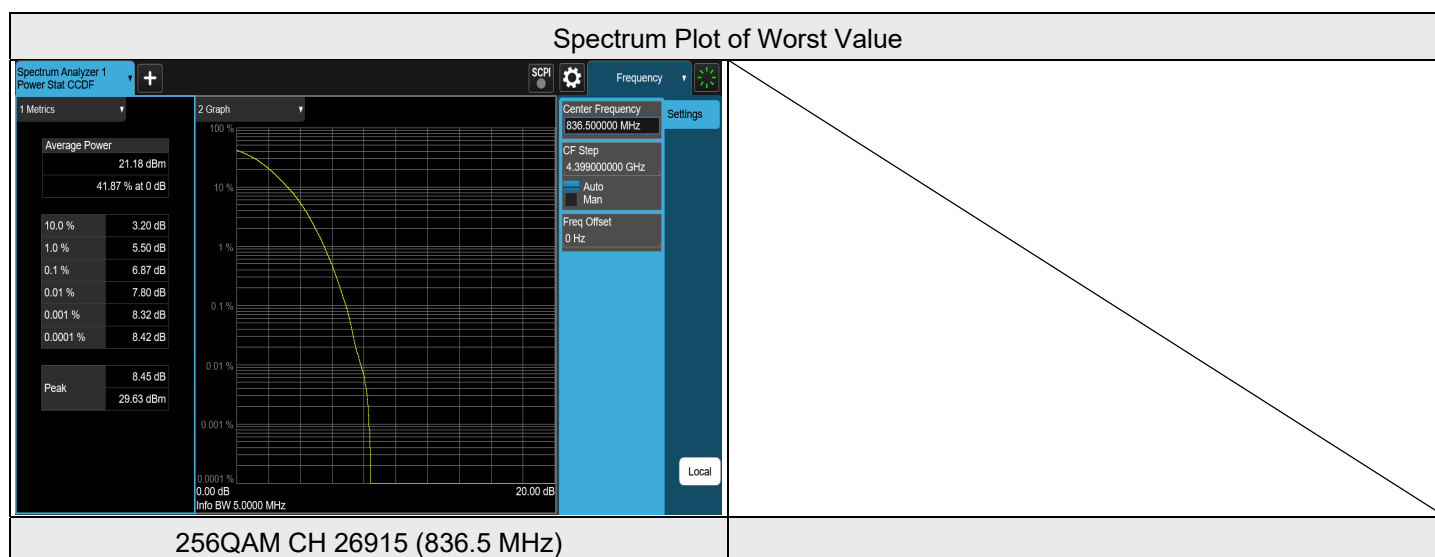
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23305	790.5	3.94	13	PASS
QPSK	23330	793	3.84	13	PASS
QPSK	23355	795.5	3.45	13	PASS
16QAM	23305	790.5	4.74	13	PASS
16QAM	23330	793	4.60	13	PASS
16QAM	23355	795.5	4.09	13	PASS
64QAM	23305	790.5	5.60	13	PASS
64QAM	23330	793	5.52	13	PASS
64QAM	23355	795.5	5.04	13	PASS
256QAM	23305	790.5	6.85	13	PASS
256QAM	23330	793	6.83	13	PASS
256QAM	23355	795.5	6.63	13	PASS



7.3.7 LTE Band 26 (824 MHz ~ 849 MHz)

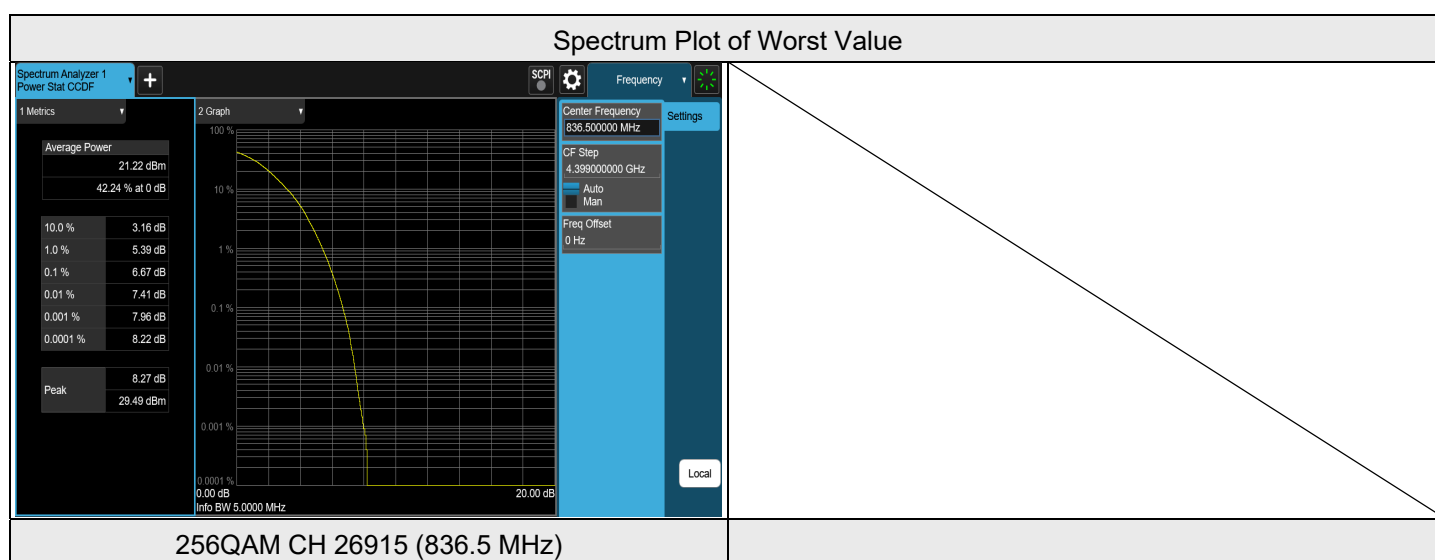
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26797	824.7	4.00	13	PASS
QPSK	26915	836.5	4.18	13	PASS
QPSK	27033	848.3	3.91	13	PASS
16QAM	26797	824.7	4.70	13	PASS
16QAM	26915	836.5	4.91	13	PASS
16QAM	27033	848.3	4.71	13	PASS
64QAM	26797	824.7	5.63	13	PASS
64QAM	26915	836.5	5.66	13	PASS
64QAM	27033	848.3	5.56	13	PASS
256QAM	26797	824.7	6.76	13	PASS
256QAM	26915	836.5	6.87	13	PASS
256QAM	27033	848.3	6.53	13	PASS



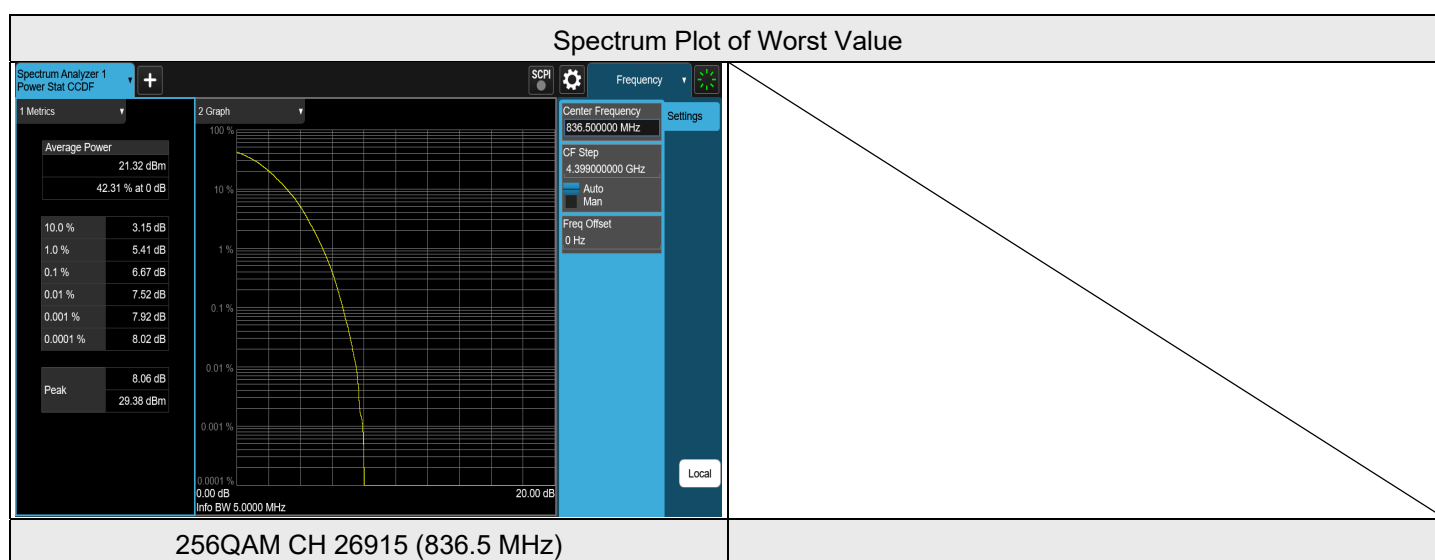
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26805	825.5	3.44	13	PASS
QPSK	26915	836.5	3.43	13	PASS
QPSK	27025	847.5	3.44	13	PASS
16QAM	26805	825.5	4.74	13	PASS
16QAM	26915	836.5	4.45	13	PASS
16QAM	27025	847.5	4.44	13	PASS
64QAM	26805	825.5	5.32	13	PASS
64QAM	26915	836.5	5.37	13	PASS
64QAM	27025	847.5	5.34	13	PASS
256QAM	26805	825.5	6.66	13	PASS
256QAM	26915	836.5	6.67	13	PASS
256QAM	27025	847.5	6.62	13	PASS



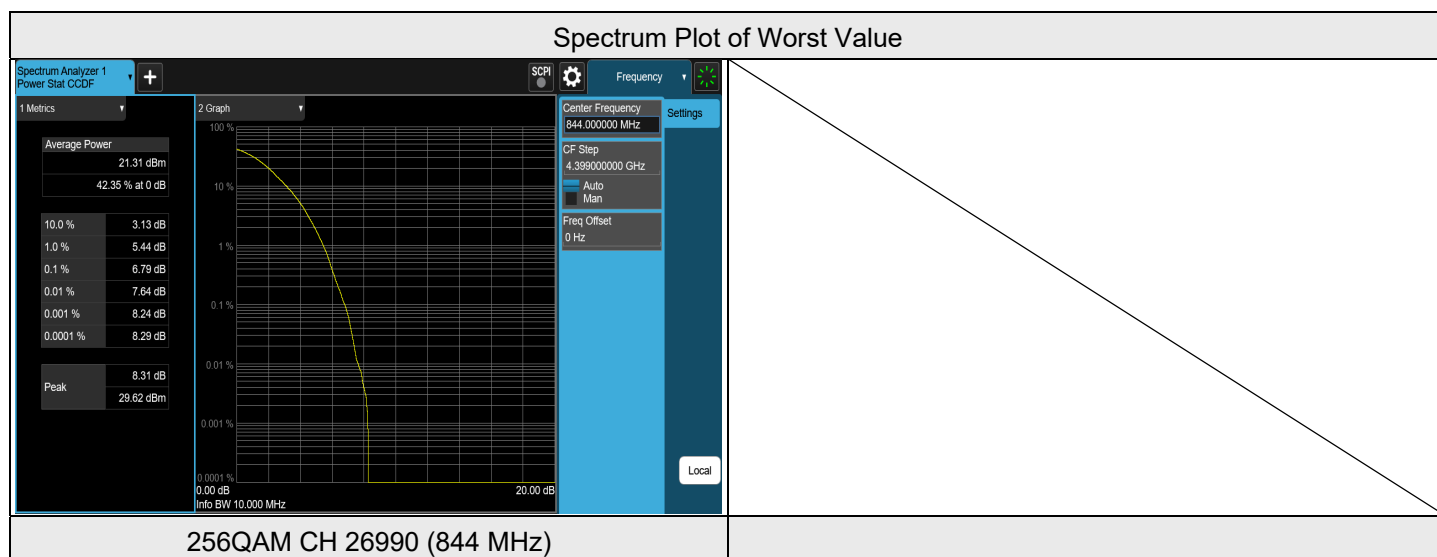
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26815	826.5	3.96	13	PASS
QPSK	26915	836.5	3.69	13	PASS
QPSK	27015	846.5	3.68	13	PASS
16QAM	26815	826.5	4.79	13	PASS
16QAM	26915	836.5	4.49	13	PASS
16QAM	27015	846.5	4.48	13	PASS
64QAM	26815	826.5	5.30	13	PASS
64QAM	26915	836.5	5.33	13	PASS
64QAM	27015	846.5	5.28	13	PASS
256QAM	26815	826.5	6.62	13	PASS
256QAM	26915	836.5	6.67	13	PASS
256QAM	27015	846.5	6.62	13	PASS



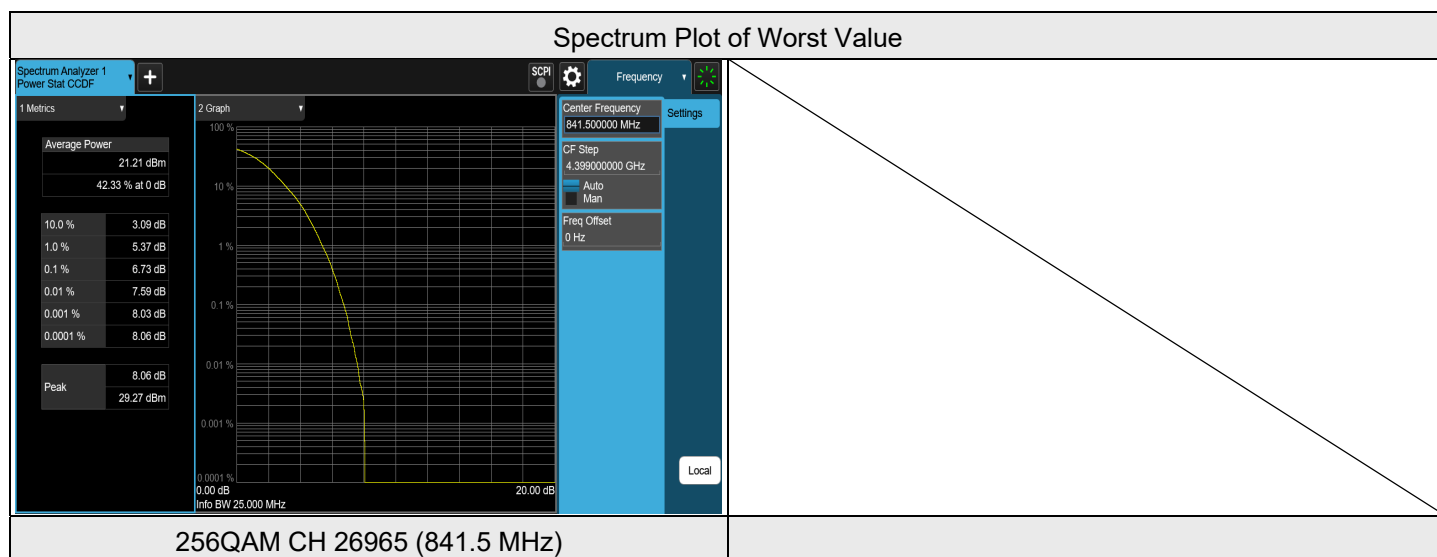
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26840	829	3.81	13	PASS
QPSK	26915	836.5	3.74	13	PASS
QPSK	26990	844	3.83	13	PASS
16QAM	26840	829	4.73	13	PASS
16QAM	26915	836.5	4.55	13	PASS
16QAM	26990	844	4.74	13	PASS
64QAM	26840	829	5.44	13	PASS
64QAM	26915	836.5	5.47	13	PASS
64QAM	26990	844	5.42	13	PASS
256QAM	26840	829	6.64	13	PASS
256QAM	26915	836.5	6.65	13	PASS
256QAM	26990	844	6.79	13	PASS



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

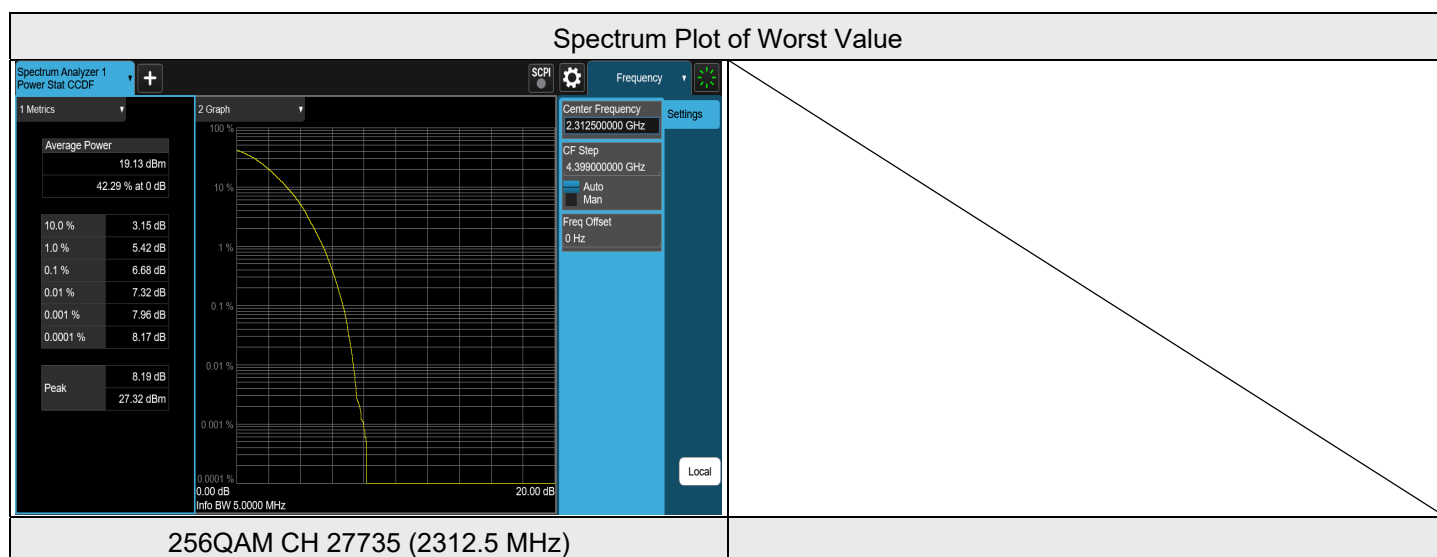
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26865	831.5	3.83	13	PASS
QPSK	26915	836.5	3.64	13	PASS
QPSK	26965	841.5	3.59	13	PASS
16QAM	26865	831.5	4.80	13	PASS
16QAM	26915	836.5	4.30	13	PASS
16QAM	26965	841.5	4.18	13	PASS
64QAM	26865	831.5	5.38	13	PASS
64QAM	26915	836.5	5.42	13	PASS
64QAM	26965	841.5	5.37	13	PASS
256QAM	26865	831.5	6.68	13	PASS
256QAM	26915	836.5	6.64	13	PASS
256QAM	26965	841.5	6.73	13	PASS



7.3.8 LTE Band 30

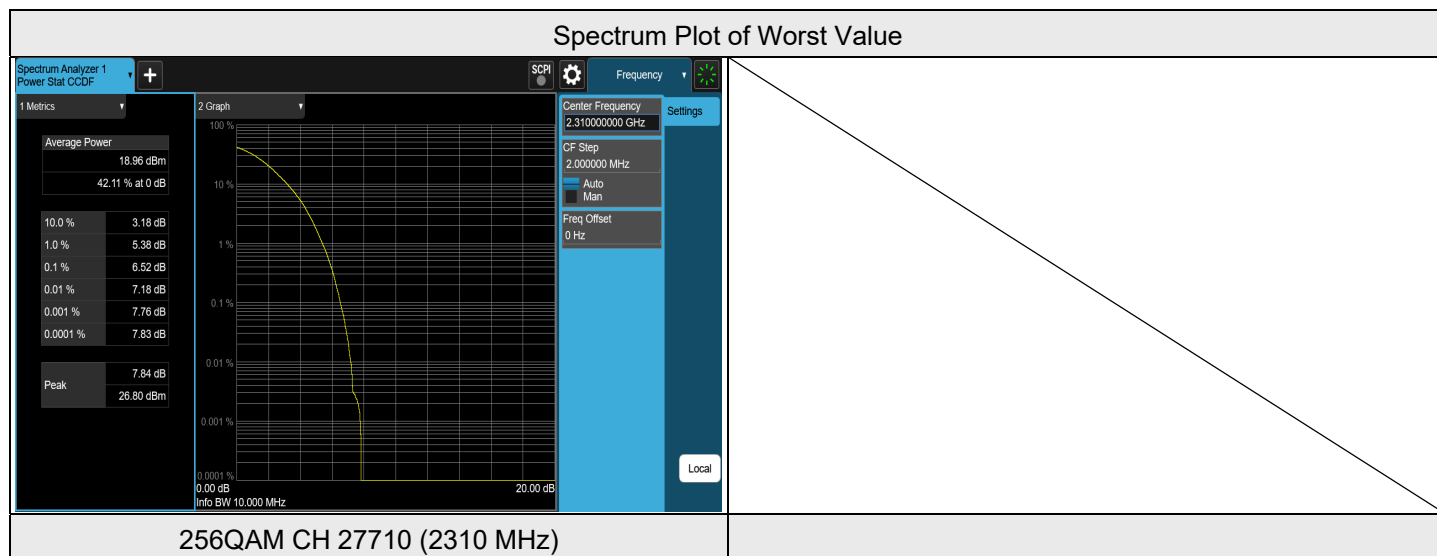
LTE Band 30, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	27685	2307.5	2.64	13	PASS
QPSK	27710	2310	3.13	13	PASS
QPSK	27735	2312.5	3.41	13	PASS
16QAM	27685	2307.5	3.43	13	PASS
16QAM	27710	2310	3.91	13	PASS
16QAM	27735	2312.5	4.24	13	PASS
64QAM	27685	2307.5	4.35	13	PASS
64QAM	27710	2310	4.73	13	PASS
64QAM	27735	2312.5	5.14	13	PASS
256QAM	27685	2307.5	6.50	13	PASS
256QAM	27710	2310	6.60	13	PASS
256QAM	27735	2312.5	6.68	13	PASS



LTE Band 30, Channel Bandwidth: 10 MHz

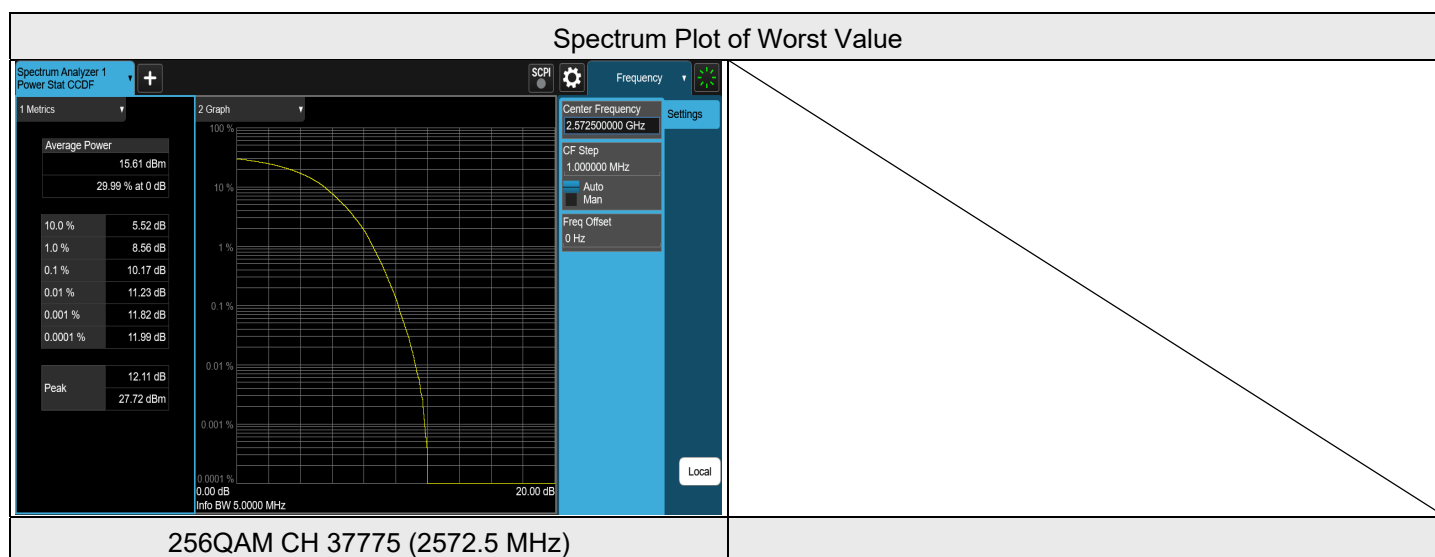
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	27710	2310	2.84	13	PASS
16QAM	27710	2310	3.58	13	PASS
64QAM	27710	2310	4.72	13	PASS
256QAM	27710	2310	6.52	13	PASS



7.3.9 LTE Band 38

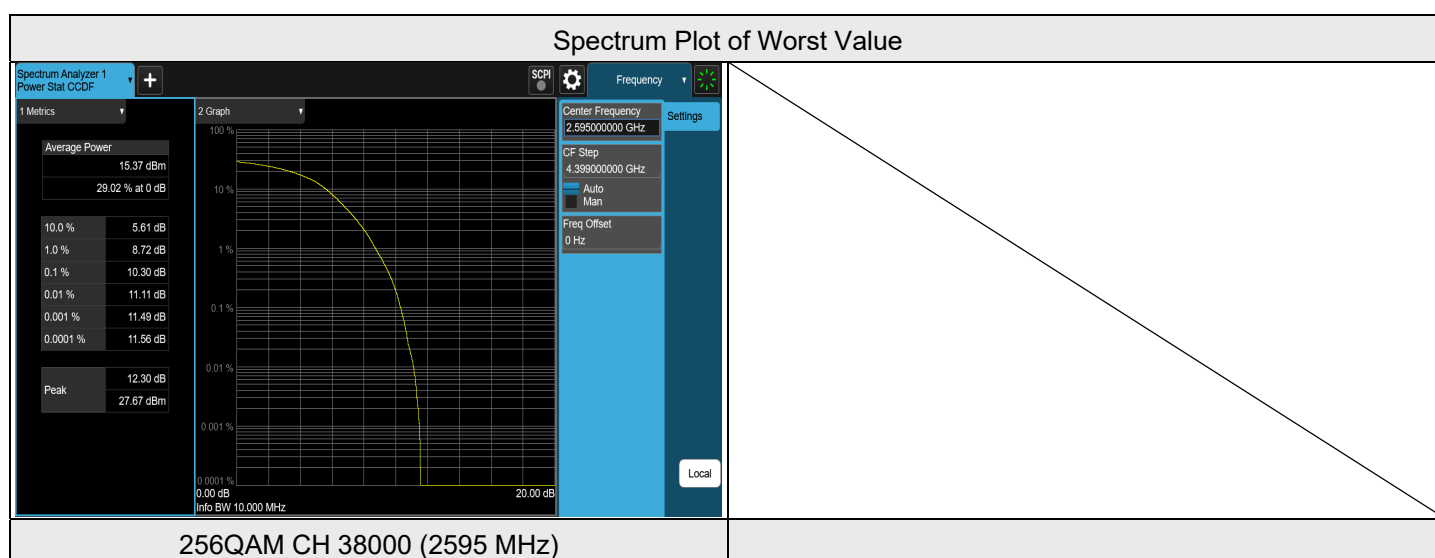
LTE Band 38, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37775	2572.5	7.75	13	PASS
QPSK	38000	2595	7.49	13	PASS
QPSK	38225	2617.5	7.61	13	PASS
16QAM	37775	2572.5	8.11	13	PASS
16QAM	38000	2595	8.40	13	PASS
16QAM	38225	2617.5	8.42	13	PASS
64QAM	37775	2572.5	9.26	13	PASS
64QAM	38000	2595	9.01	13	PASS
64QAM	38225	2617.5	9.08	13	PASS
256QAM	37775	2572.5	10.17	13	PASS
256QAM	38000	2595	9.95	13	PASS
256QAM	38225	2617.5	9.79	13	PASS



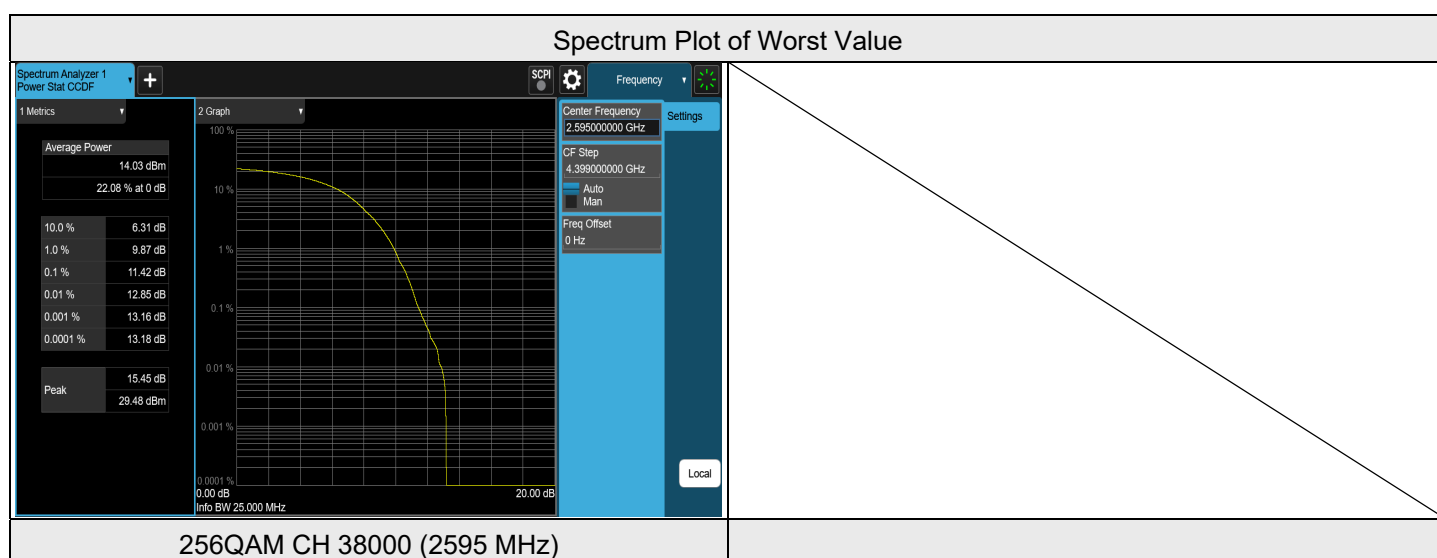
LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37800	2575	7.95	13	PASS
QPSK	38000	2595	7.66	13	PASS
QPSK	38200	2615	7.61	13	PASS
16QAM	37800	2575	8.94	13	PASS
16QAM	38000	2595	8.15	13	PASS
16QAM	38200	2615	8.11	13	PASS
64QAM	37800	2575	8.85	13	PASS
64QAM	38000	2595	9.53	13	PASS
64QAM	38200	2615	9.21	13	PASS
256QAM	37800	2575	10.04	13	PASS
256QAM	38000	2595	10.30	13	PASS
256QAM	38200	2615	9.88	13	PASS



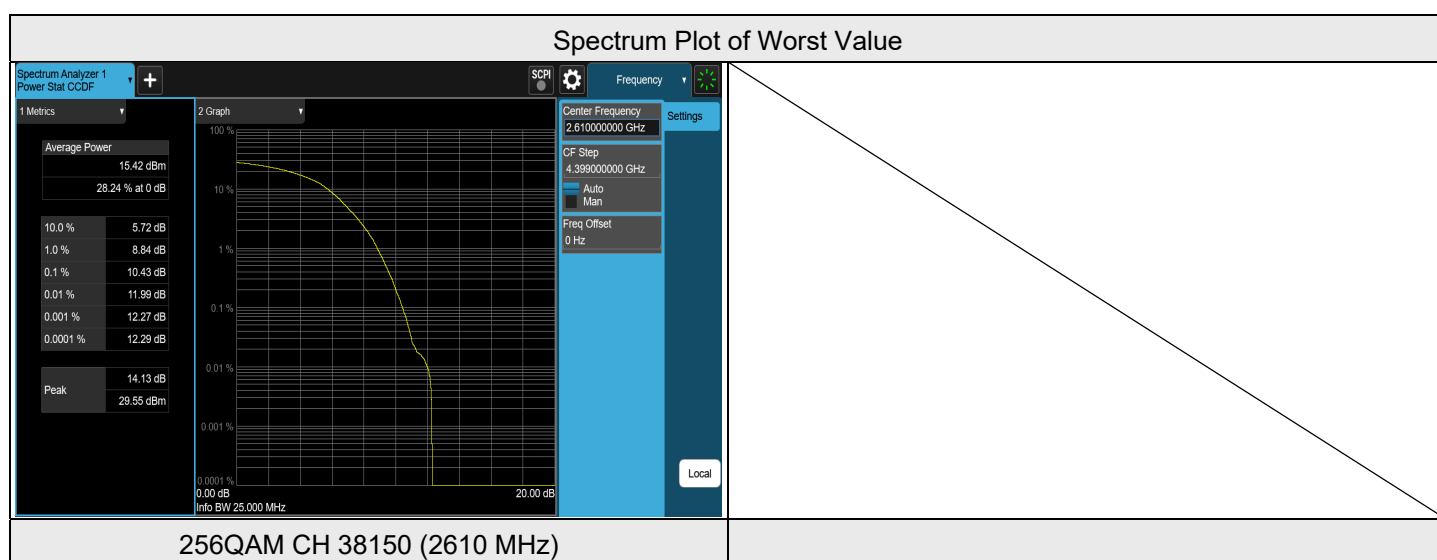
LTE Band 38, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37825	2577.5	7.29	13	PASS
QPSK	38000	2595	7.27	13	PASS
QPSK	38175	2612.5	7.43	13	PASS
16QAM	37825	2577.5	10.14	13	PASS
16QAM	38000	2595	8.84	13	PASS
16QAM	38175	2612.5	8.47	13	PASS
64QAM	37825	2577.5	10.47	13	PASS
64QAM	38000	2595	10.06	13	PASS
64QAM	38175	2612.5	8.81	13	PASS
256QAM	37825	2577.5	10.01	13	PASS
256QAM	38000	2595	11.42	13	PASS
256QAM	38175	2612.5	10.52	13	PASS



LTE Band 38, Channel Bandwidth: 20 MHz

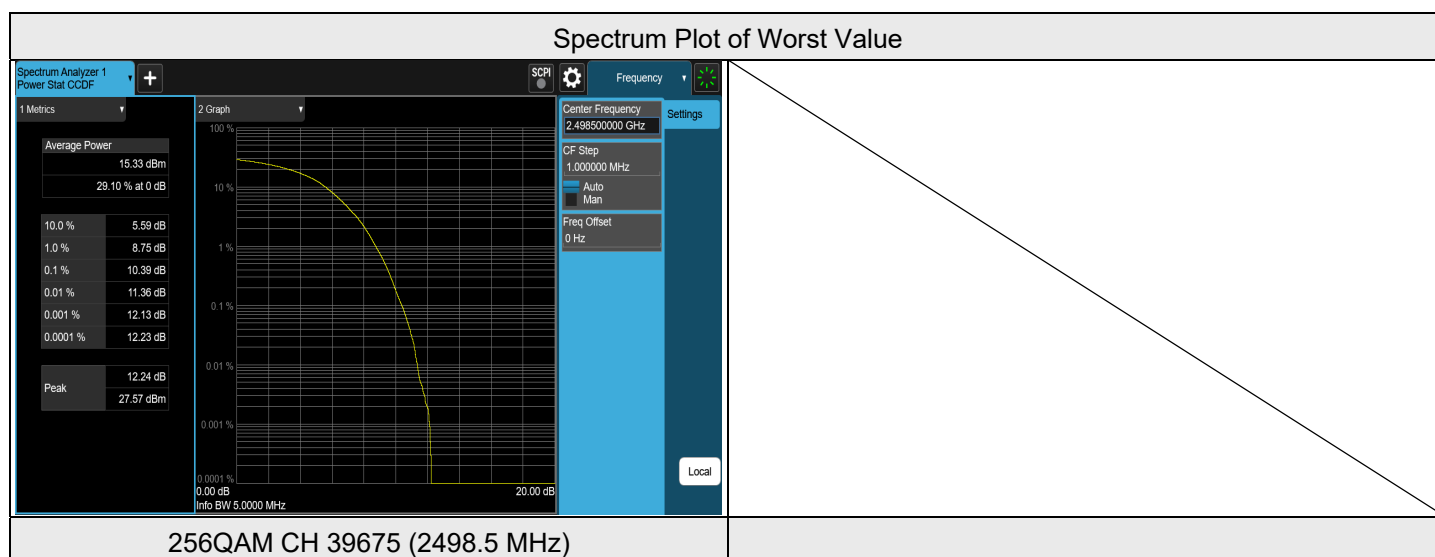
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37850	2580	7.15	13	PASS
QPSK	38000	2595	8.05	13	PASS
QPSK	38150	2610	6.82	13	PASS
16QAM	37850	2580	7.63	13	PASS
16QAM	38000	2595	7.55	13	PASS
16QAM	38150	2610	8.04	13	PASS
64QAM	37850	2580	9.37	13	PASS
64QAM	38000	2595	8.82	13	PASS
64QAM	38150	2610	9.01	13	PASS
256QAM	37850	2580	10.37	13	PASS
256QAM	38000	2595	10.24	13	PASS
256QAM	38150	2610	10.43	13	PASS



7.3.10 LTE Band 41

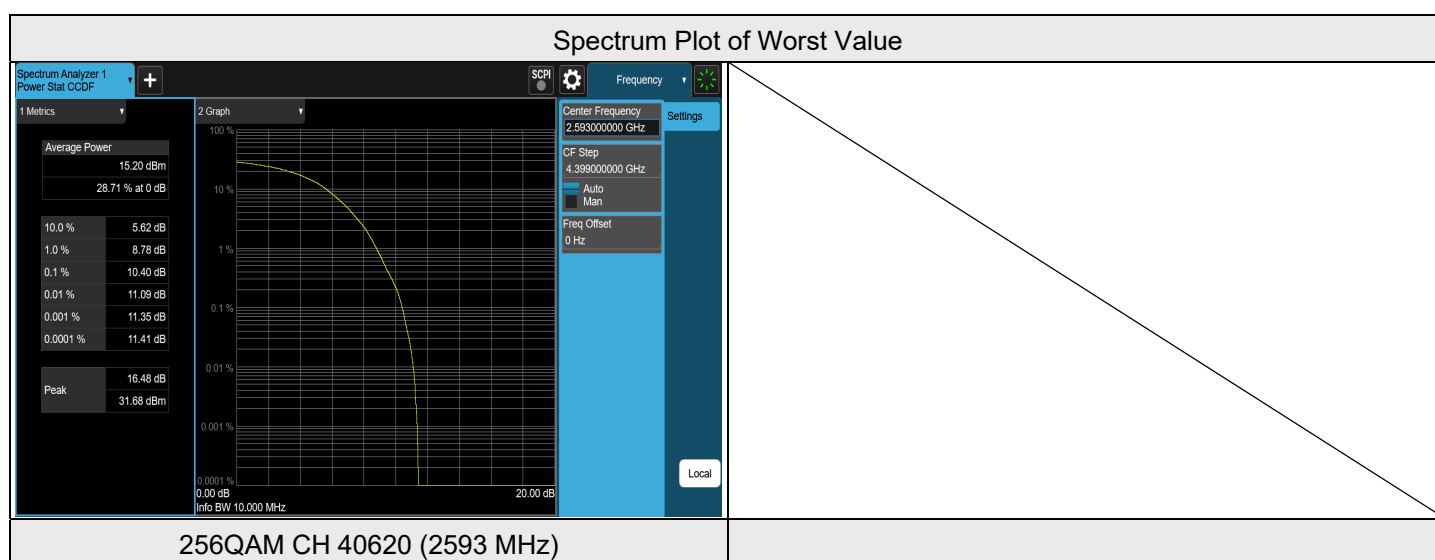
LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39675	2498.5	7.60	13	PASS
QPSK	40620	2593	7.91	13	PASS
QPSK	41565	2687.5	6.91	13	PASS
16QAM	39675	2498.5	8.23	13	PASS
16QAM	40620	2593	8.40	13	PASS
16QAM	41565	2687.5	7.87	13	PASS
64QAM	39675	2498.5	8.93	13	PASS
64QAM	40620	2593	9.31	13	PASS
64QAM	41565	2687.5	8.71	13	PASS
256QAM	39675	2498.5	10.39	13	PASS
256QAM	40620	2593	9.83	13	PASS
256QAM	41565	2687.5	10.02	13	PASS



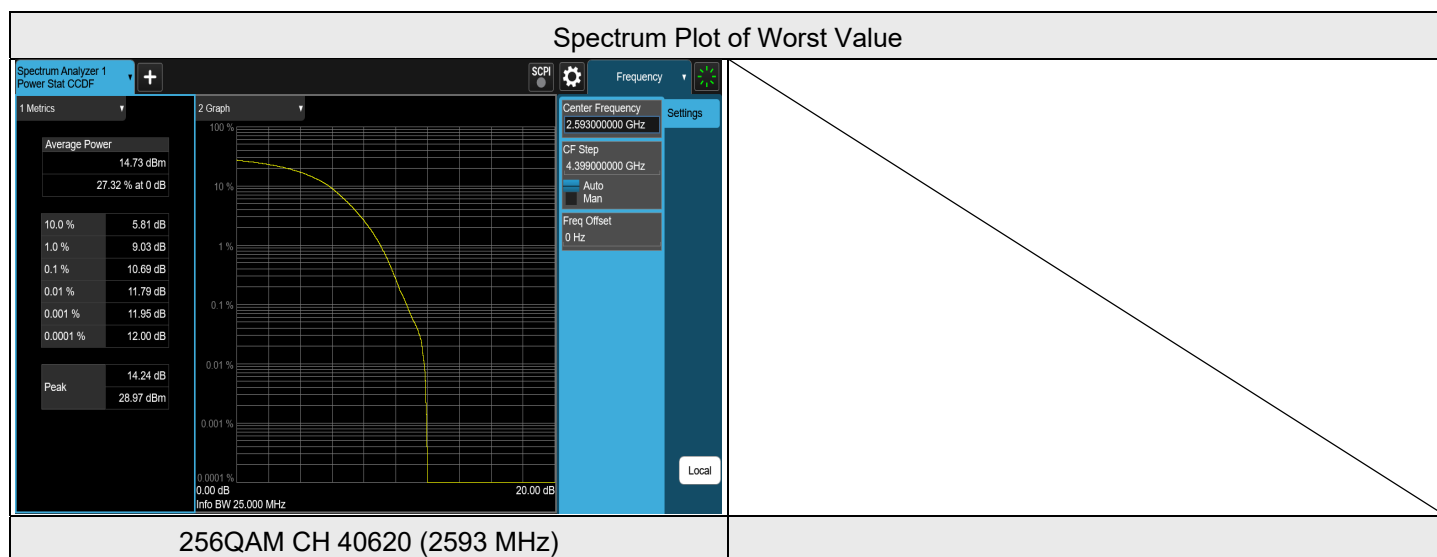
LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39700	2501	7.20	13	PASS
QPSK	40620	2593	7.46	13	PASS
QPSK	41540	2685	7.09	13	PASS
16QAM	39700	2501	8.45	13	PASS
16QAM	40620	2593	8.53	13	PASS
16QAM	41540	2685	7.79	13	PASS
64QAM	39700	2501	8.98	13	PASS
64QAM	40620	2593	9.57	13	PASS
64QAM	41540	2685	9.11	13	PASS
256QAM	39700	2501	10.29	13	PASS
256QAM	40620	2593	10.40	13	PASS
256QAM	41540	2685	10.05	13	PASS



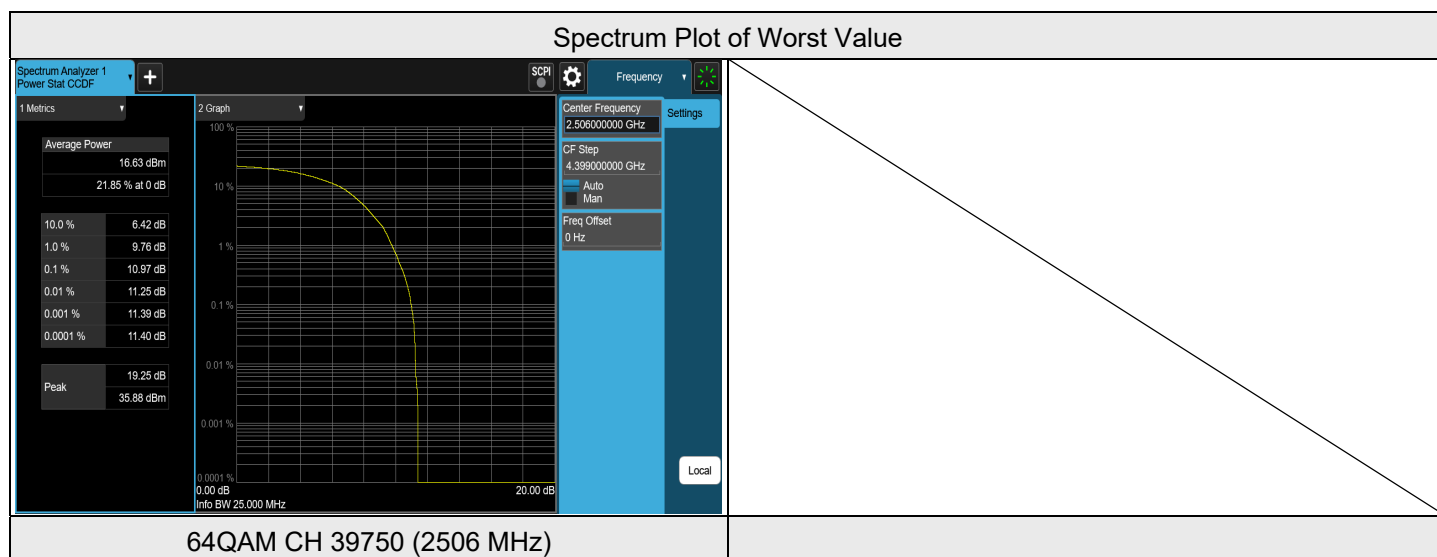
LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39725	2503.5	6.77	13	PASS
QPSK	40620	2593	6.96	13	PASS
QPSK	41515	2682.5	6.61	13	PASS
16QAM	39725	2503.5	7.44	13	PASS
16QAM	40620	2593	6.71	13	PASS
16QAM	41515	2682.5	10.47	13	PASS
64QAM	39725	2503.5	9.38	13	PASS
64QAM	40620	2593	8.55	13	PASS
64QAM	41515	2682.5	8.91	13	PASS
256QAM	39725	2503.5	8.73	13	PASS
256QAM	40620	2593	10.69	13	PASS
256QAM	41515	2682.5	10.01	13	PASS



LTE Band 41, Channel Bandwidth: 20 MHz

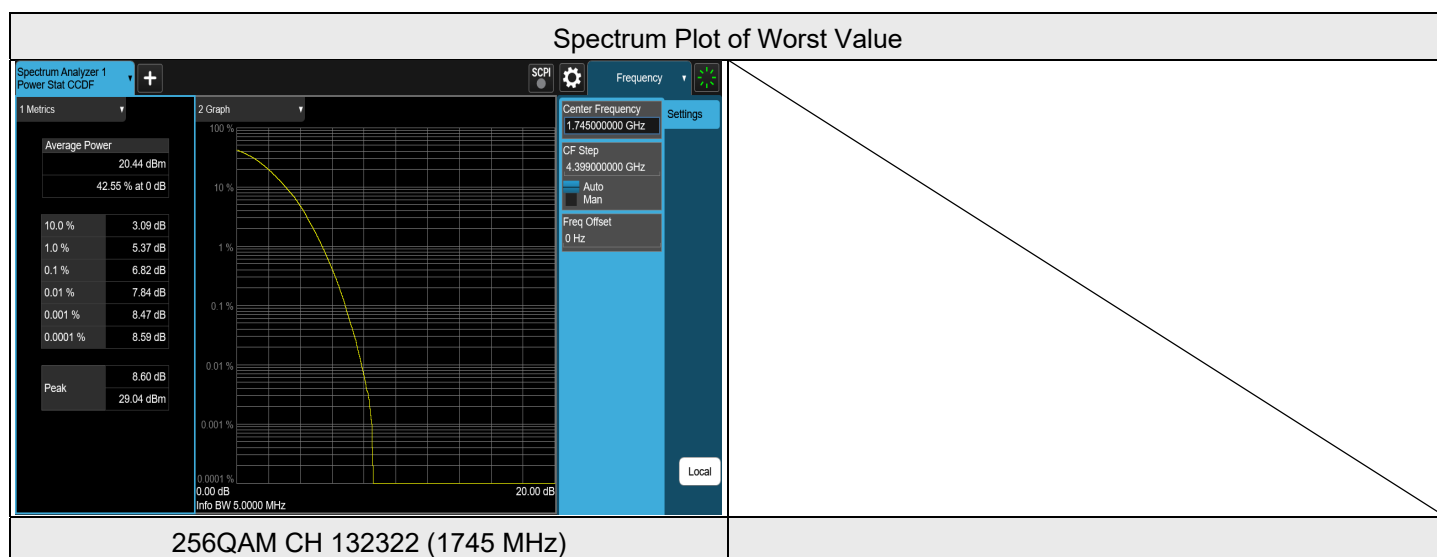
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39750	2506	6.97	13	PASS
QPSK	40620	2593	8.49	13	PASS
QPSK	41490	2680	7.92	13	PASS
16QAM	39750	2506	8.06	13	PASS
16QAM	40620	2593	8.13	13	PASS
16QAM	41490	2680	9.02	13	PASS
64QAM	39750	2506	10.97	13	PASS
64QAM	40620	2593	9.21	13	PASS
64QAM	41490	2680	9.22	13	PASS
256QAM	39750	2506	10.53	13	PASS
256QAM	40620	2593	9.81	13	PASS
256QAM	41490	2680	9.77	13	PASS



7.3.11 LTE Band 66

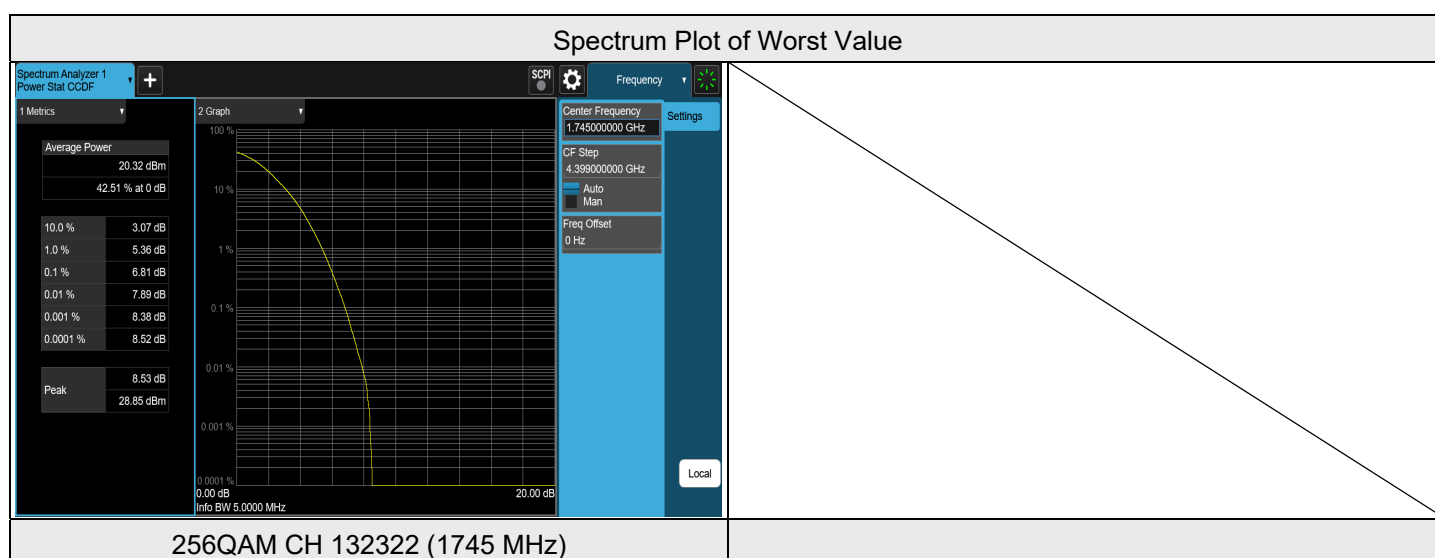
LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131979	1710.7	3.67	13	PASS
QPSK	132322	1745	3.69	13	PASS
QPSK	132665	1779.3	3.68	13	PASS
16QAM	131979	1710.7	4.39	13	PASS
16QAM	132322	1745	4.43	13	PASS
16QAM	132665	1779.3	4.23	13	PASS
64QAM	131979	1710.7	4.58	13	PASS
64QAM	132322	1745	4.50	13	PASS
64QAM	132665	1779.3	4.53	13	PASS
256QAM	131979	1710.7	6.65	13	PASS
256QAM	132322	1745	6.82	13	PASS
256QAM	132665	1779.3	6.70	13	PASS



LTE Band 66, Channel Bandwidth: 3 MHz

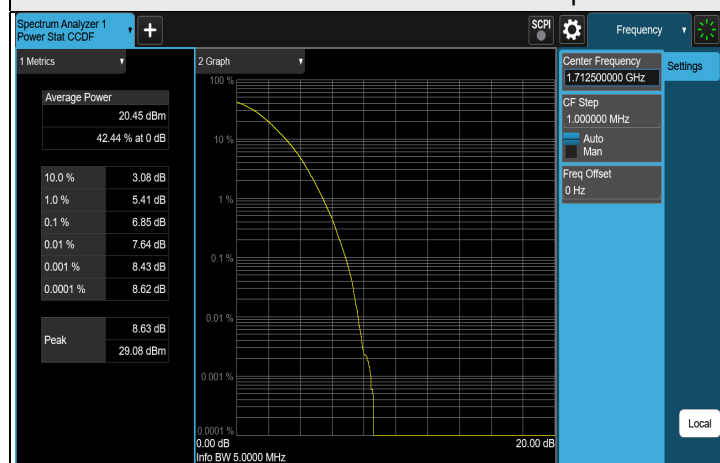
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131987	1711.5	3.67	13	PASS
QPSK	132322	1745	3.66	13	PASS
QPSK	132657	1778.5	3.73	13	PASS
16QAM	131987	1711.5	4.61	13	PASS
16QAM	132322	1745	4.60	13	PASS
16QAM	132657	1778.5	4.61	13	PASS
64QAM	131987	1711.5	5.62	13	PASS
64QAM	132322	1745	5.62	13	PASS
64QAM	132657	1778.5	5.47	13	PASS
256QAM	131987	1711.5	6.71	13	PASS
256QAM	132322	1745	6.81	13	PASS
256QAM	132657	1778.5	6.78	13	PASS



LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131997	1712.5	3.96	13	PASS
QPSK	132322	1745	3.93	13	PASS
QPSK	132647	1777.5	3.78	13	PASS
16QAM	131997	1712.5	4.62	13	PASS
16QAM	132322	1745	4.65	13	PASS
16QAM	132647	1777.5	4.48	13	PASS
64QAM	131997	1712.5	5.58	13	PASS
64QAM	132322	1745	5.58	13	PASS
64QAM	132647	1777.5	5.43	13	PASS
256QAM	131997	1712.5	6.85	13	PASS
256QAM	132322	1745	6.76	13	PASS
256QAM	132647	1777.5	6.73	13	PASS

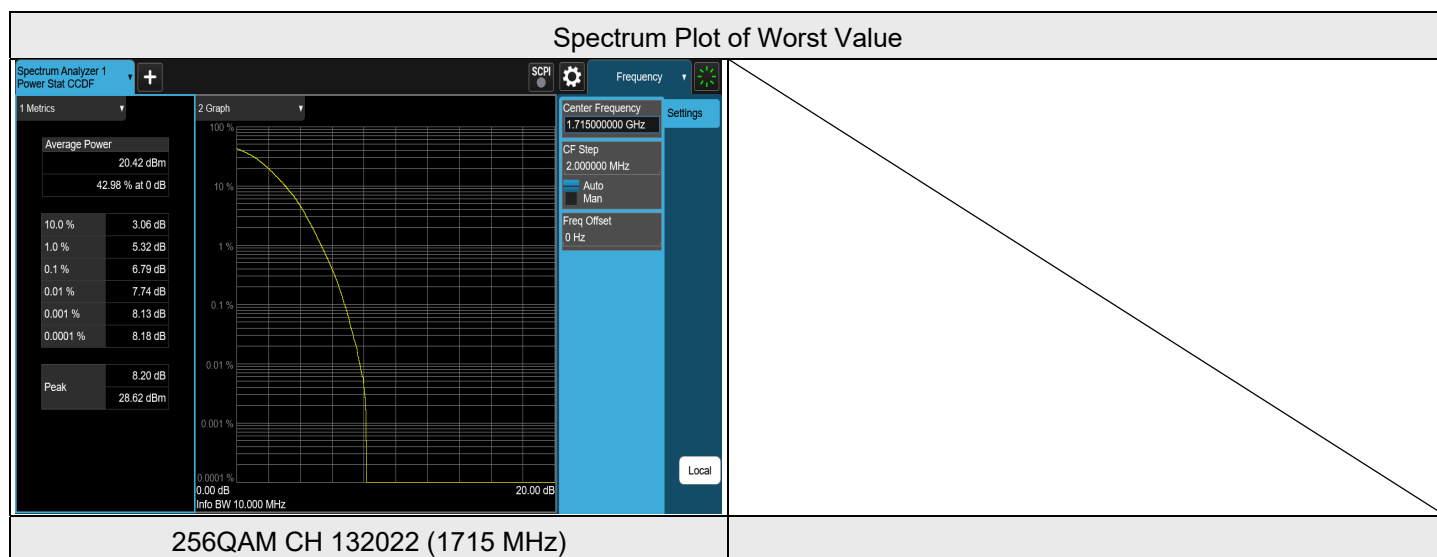
Spectrum Plot of Worst Value



256QAM CH 131997 (1712.5 MHz)

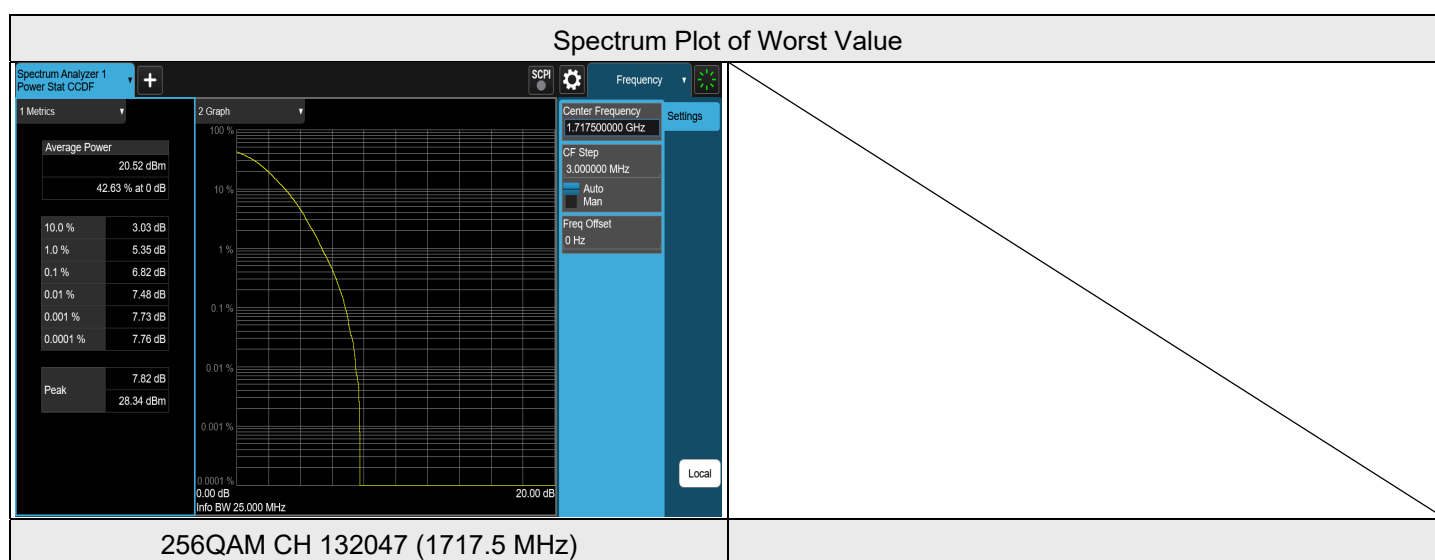
LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132022	1715	3.96	13	PASS
QPSK	132322	1745	3.92	13	PASS
QPSK	132622	1775	3.78	13	PASS
16QAM	132022	1715	5.07	13	PASS
16QAM	132322	1745	4.73	13	PASS
16QAM	132622	1775	4.55	13	PASS
64QAM	132022	1715	5.76	13	PASS
64QAM	132322	1745	5.69	13	PASS
64QAM	132622	1775	5.56	13	PASS
256QAM	132022	1715	6.79	13	PASS
256QAM	132322	1745	6.65	13	PASS
256QAM	132622	1775	6.66	13	PASS



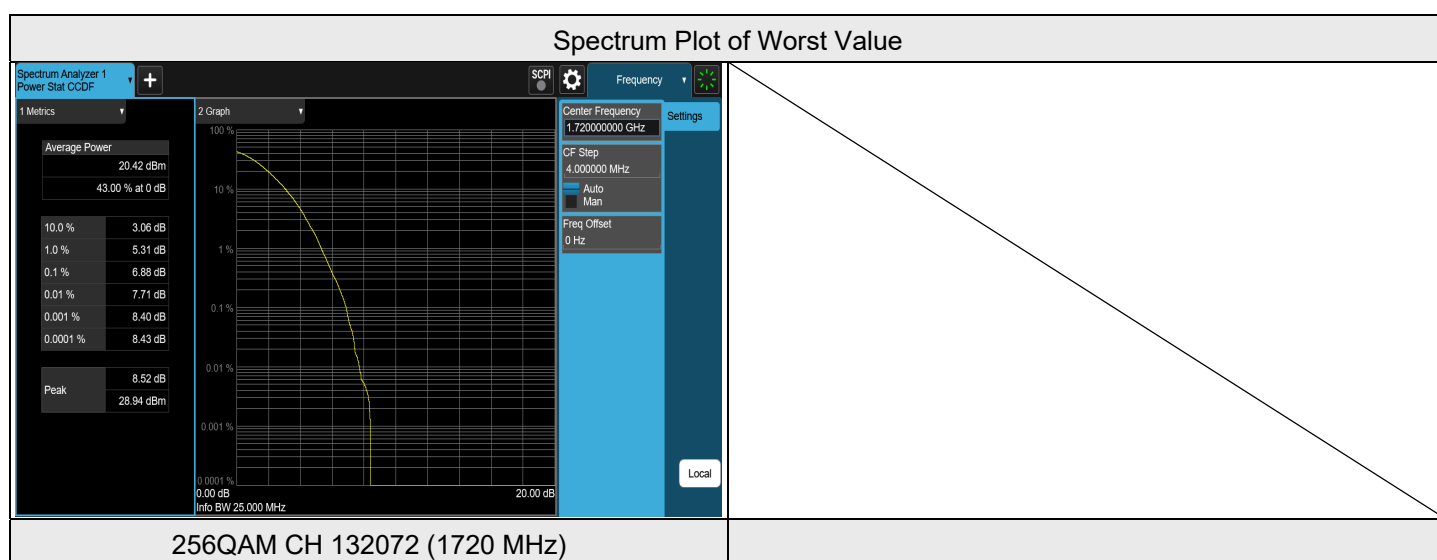
LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132047	1717.5	4.19	13	PASS
QPSK	132322	1745	3.75	13	PASS
QPSK	132597	1772.5	3.63	13	PASS
16QAM	132047	1717.5	4.45	13	PASS
16QAM	132322	1745	4.27	13	PASS
16QAM	132597	1772.5	4.19	13	PASS
64QAM	132047	1717.5	5.71	13	PASS
64QAM	132322	1745	5.64	13	PASS
64QAM	132597	1772.5	5.38	13	PASS
256QAM	132047	1717.5	6.82	13	PASS
256QAM	132322	1745	6.50	13	PASS
256QAM	132597	1772.5	6.31	13	PASS



LTE Band 66, Channel Bandwidth: 20 MHz

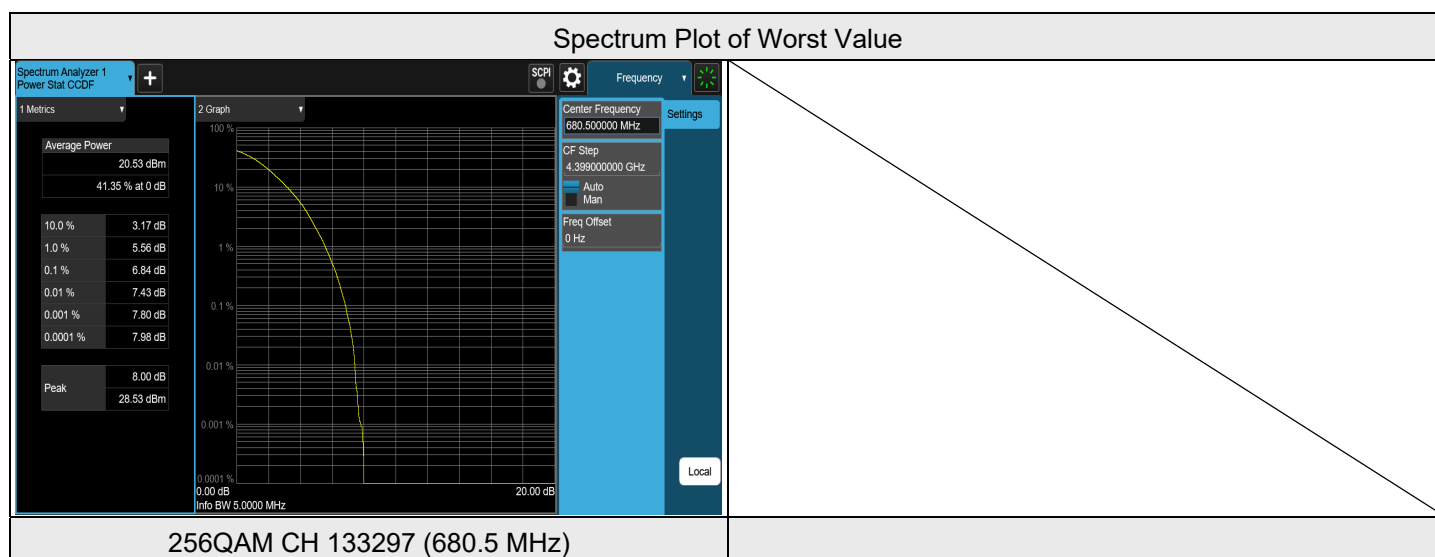
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132072	1720	4.00	13	PASS
QPSK	132322	1745	3.97	13	PASS
QPSK	132572	1770	3.85	13	PASS
16QAM	132072	1720	4.71	13	PASS
16QAM	132322	1745	4.71	13	PASS
16QAM	132572	1770	4.54	13	PASS
64QAM	132072	1720	5.73	13	PASS
64QAM	132322	1745	5.66	13	PASS
64QAM	132572	1770	5.54	13	PASS
256QAM	132072	1720	6.88	13	PASS
256QAM	132322	1745	6.53	13	PASS
256QAM	132572	1770	6.62	13	PASS



7.3.12 LTE Band 71

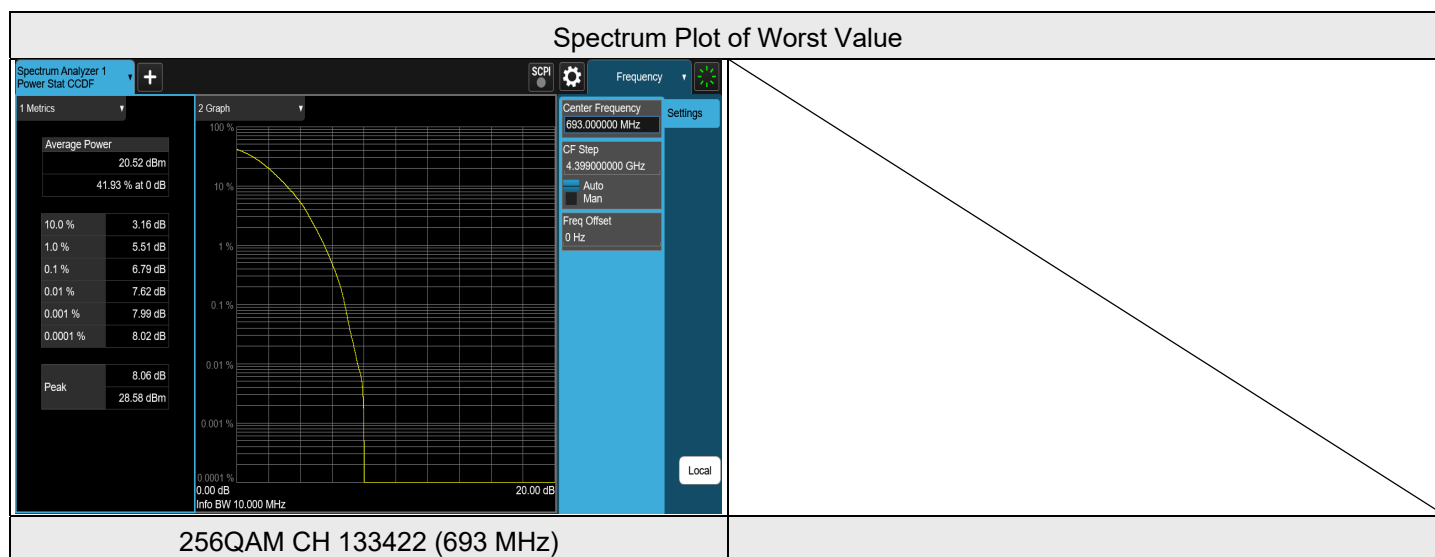
LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133147	665.5	3.30	13	PASS
QPSK	133297	680.5	3.37	13	PASS
QPSK	133447	695.5	3.41	13	PASS
16QAM	133147	665.5	4.02	13	PASS
16QAM	133297	680.5	4.01	13	PASS
16QAM	133447	695.5	4.14	13	PASS
64QAM	133147	665.5	4.18	13	PASS
64QAM	133297	680.5	4.21	13	PASS
64QAM	133447	695.5	4.32	13	PASS
256QAM	133147	665.5	6.74	13	PASS
256QAM	133297	680.5	6.84	13	PASS
256QAM	133447	695.5	6.81	13	PASS



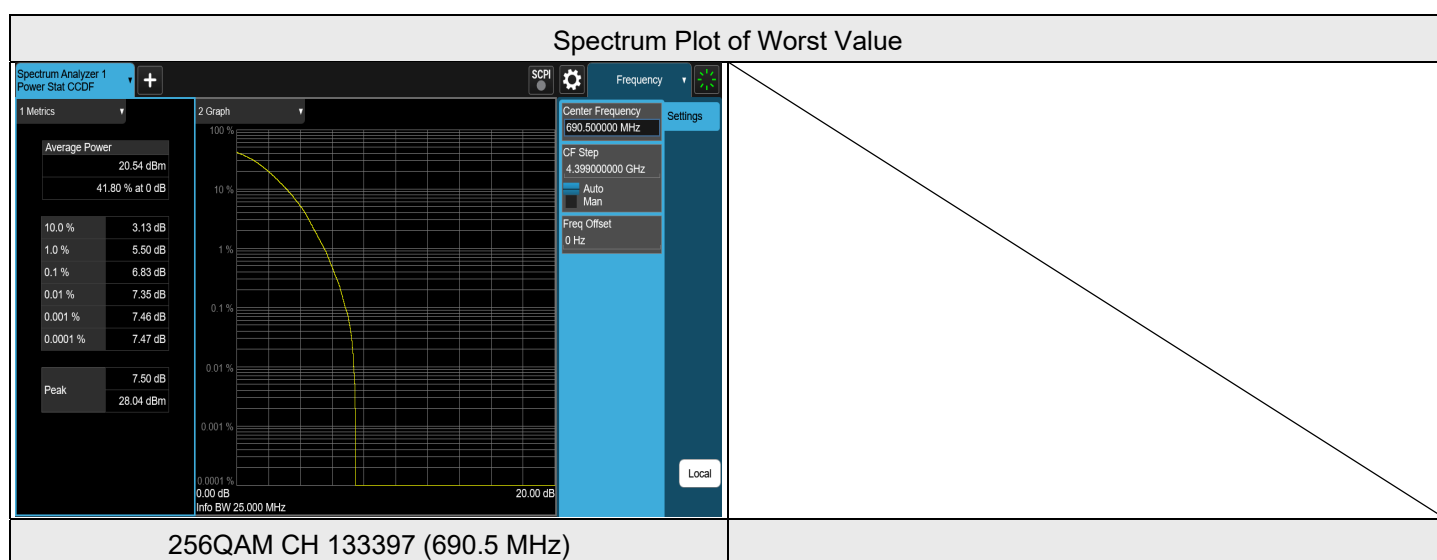
LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133172	668	3.26	13	PASS
QPSK	133297	680.5	3.39	13	PASS
QPSK	133422	693	3.90	13	PASS
16QAM	133172	668	4.08	13	PASS
16QAM	133297	680.5	4.20	13	PASS
16QAM	133422	693	4.60	13	PASS
64QAM	133172	668	5.04	13	PASS
64QAM	133297	680.5	5.16	13	PASS
64QAM	133422	693	5.63	13	PASS
256QAM	133172	668	6.57	13	PASS
256QAM	133297	680.5	6.65	13	PASS
256QAM	133422	693	6.79	13	PASS



LTE Band 71, Channel Bandwidth: 15 MHz

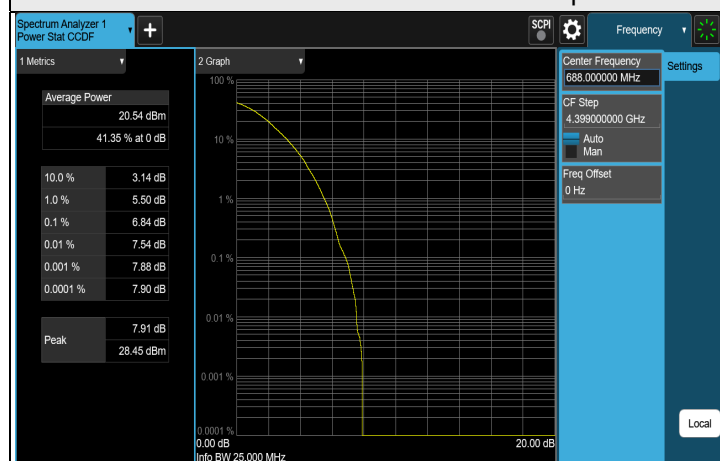
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133197	670.5	3.16	13	PASS
QPSK	133297	680.5	3.63	13	PASS
QPSK	133397	690.5	3.94	13	PASS
16QAM	133197	670.5	3.75	13	PASS
16QAM	133297	680.5	4.12	13	PASS
16QAM	133397	690.5	4.52	13	PASS
64QAM	133197	670.5	5.01	13	PASS
64QAM	133297	680.5	5.34	13	PASS
64QAM	133397	690.5	5.58	13	PASS
256QAM	133197	670.5	6.63	13	PASS
256QAM	133297	680.5	6.67	13	PASS
256QAM	133397	690.5	6.83	13	PASS



LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133222	673	3.13	13	PASS
QPSK	133297	680.5	3.85	13	PASS
QPSK	133372	688	3.50	13	PASS
16QAM	133222	673	4.04	13	PASS
16QAM	133297	680.5	4.53	13	PASS
16QAM	133372	688	4.26	13	PASS
64QAM	133222	673	5.05	13	PASS
64QAM	133297	680.5	5.56	13	PASS
64QAM	133372	688	5.16	13	PASS
256QAM	133222	673	6.54	13	PASS
256QAM	133297	680.5	6.75	13	PASS
256QAM	133372	688	6.84	13	PASS

Spectrum Plot of Worst Value



256QAM CH 133372 (688 MHz)

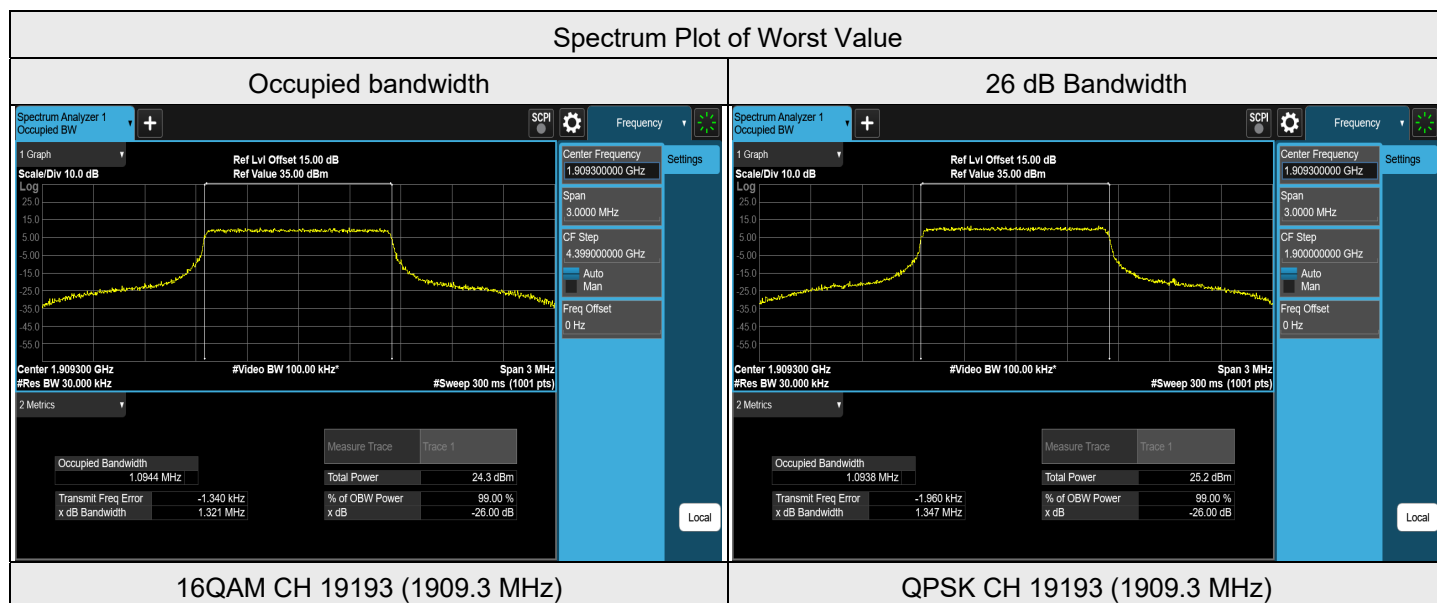
7.4 Bandwidth

Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang
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7.4.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

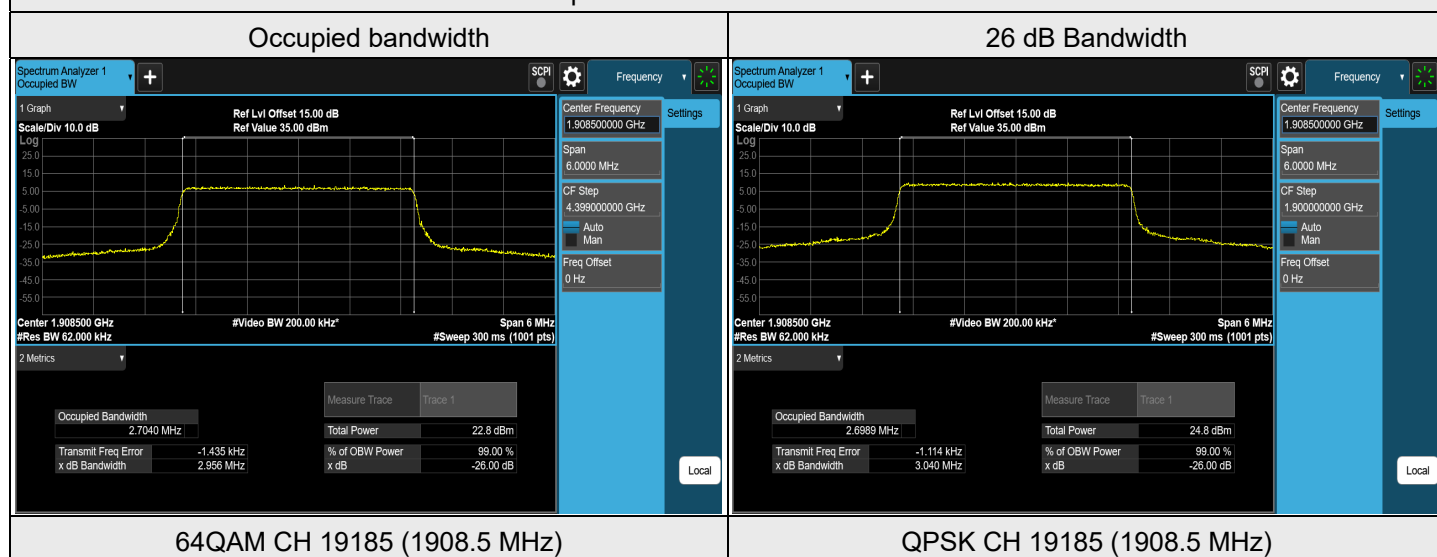
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0910	1.306
QPSK	18900	1880	1.0920	1.325
QPSK	19193	1909.3	1.0938	1.347
16QAM	18607	1850.7	1.0919	1.298
16QAM	18900	1880	1.0931	1.299
16QAM	19193	1909.3	1.0944	1.321
64QAM	18607	1850.7	1.0907	1.298
64QAM	18900	1880	1.0898	1.308
64QAM	19193	1909.3	1.0932	1.334
256QAM	18607	1850.7	1.0905	1.299
256QAM	18900	1880	1.0905	1.298
256QAM	19193	1909.3	1.0913	1.313



LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.7032	2.952
QPSK	18900	1880	2.7029	2.975
QPSK	19185	1908.5	2.6989	3.040
16QAM	18615	1851.5	2.7018	2.973
16QAM	18900	1880	2.7036	2.968
16QAM	19185	1908.5	2.7006	2.971
64QAM	18615	1851.5	2.6961	2.947
64QAM	18900	1880	2.7011	2.955
64QAM	19185	1908.5	2.7040	2.956
256QAM	18615	1851.5	2.6984	2.977
256QAM	18900	1880	2.7014	2.943
256QAM	19185	1908.5	2.7038	2.946

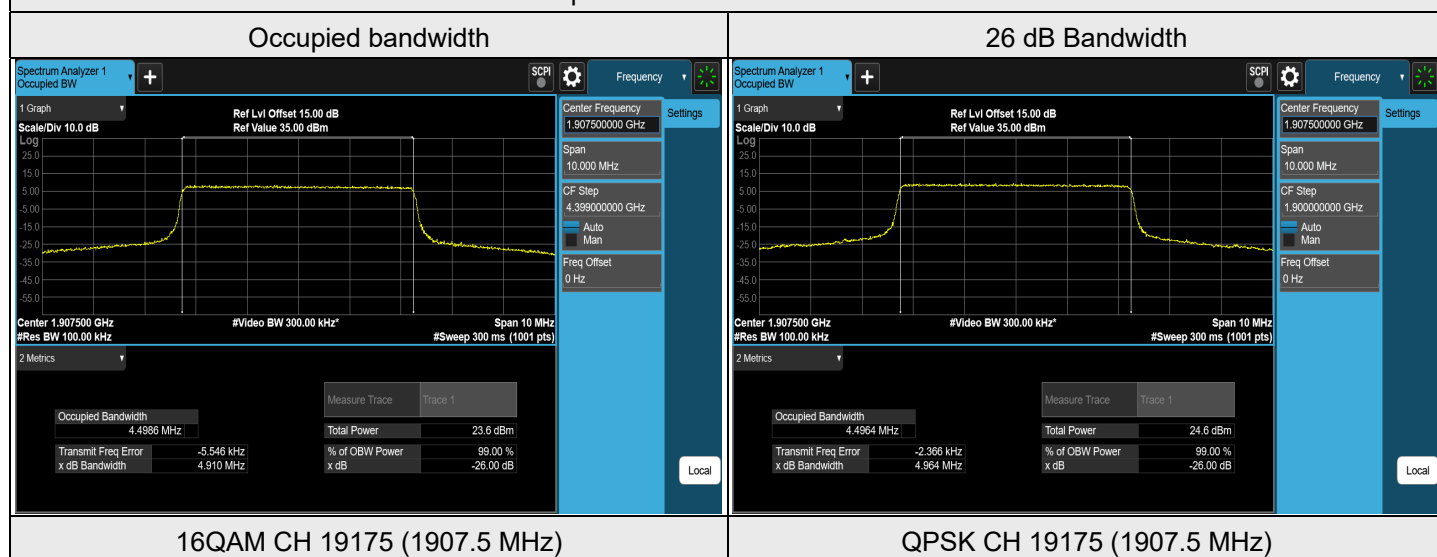
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.4960	4.902
QPSK	18900	1880	4.4963	4.891
QPSK	19175	1907.5	4.4964	4.964
16QAM	18625	1852.5	4.4954	4.916
16QAM	18900	1880	4.4964	4.870
16QAM	19175	1907.5	4.4986	4.910
64QAM	18625	1852.5	4.4945	4.933
64QAM	18900	1880	4.4960	4.876
64QAM	19175	1907.5	4.4931	4.931
256QAM	18625	1852.5	4.4907	4.876
256QAM	18900	1880	4.4960	4.876
256QAM	19175	1907.5	4.4930	4.930

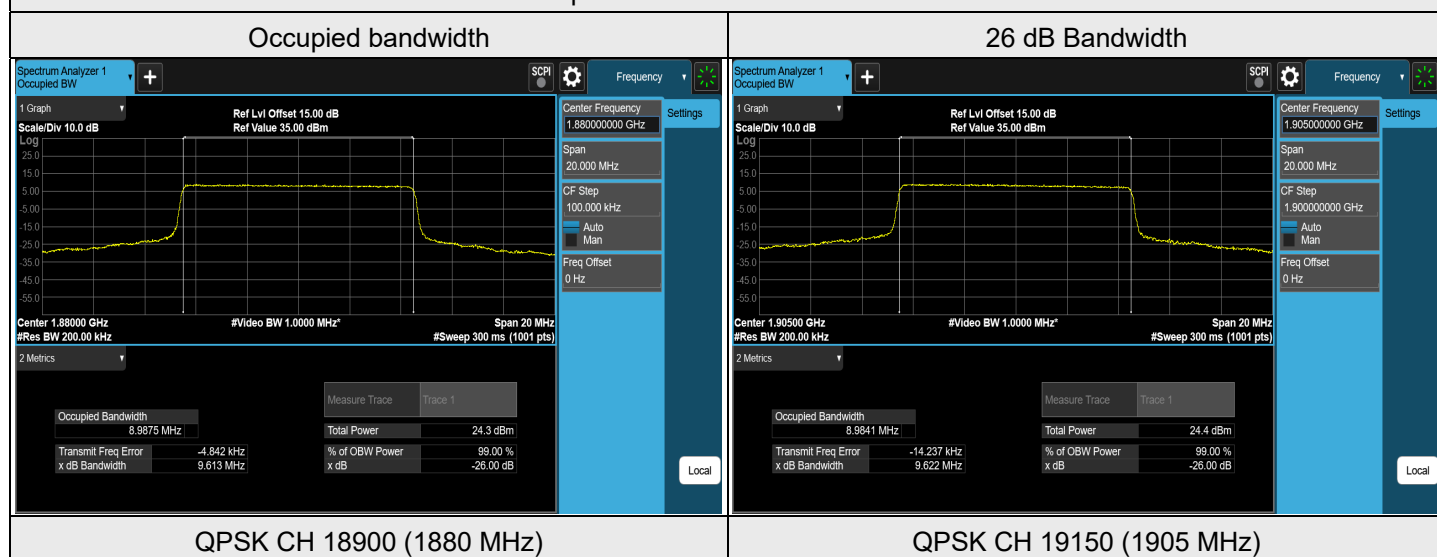
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9794	9.574
QPSK	18900	1880	8.9875	9.613
QPSK	19150	1905	8.9841	9.622
16QAM	18650	1855	8.9764	9.575
16QAM	18900	1880	8.9843	9.555
16QAM	19150	1905	8.9834	9.610
64QAM	18650	1855	8.9764	9.574
64QAM	18900	1880	8.9802	9.569
64QAM	19150	1905	8.9792	9.570
256QAM	18650	1855	8.9786	9.571
256QAM	18900	1880	8.9779	9.544
256QAM	19150	1905	8.9787	9.558

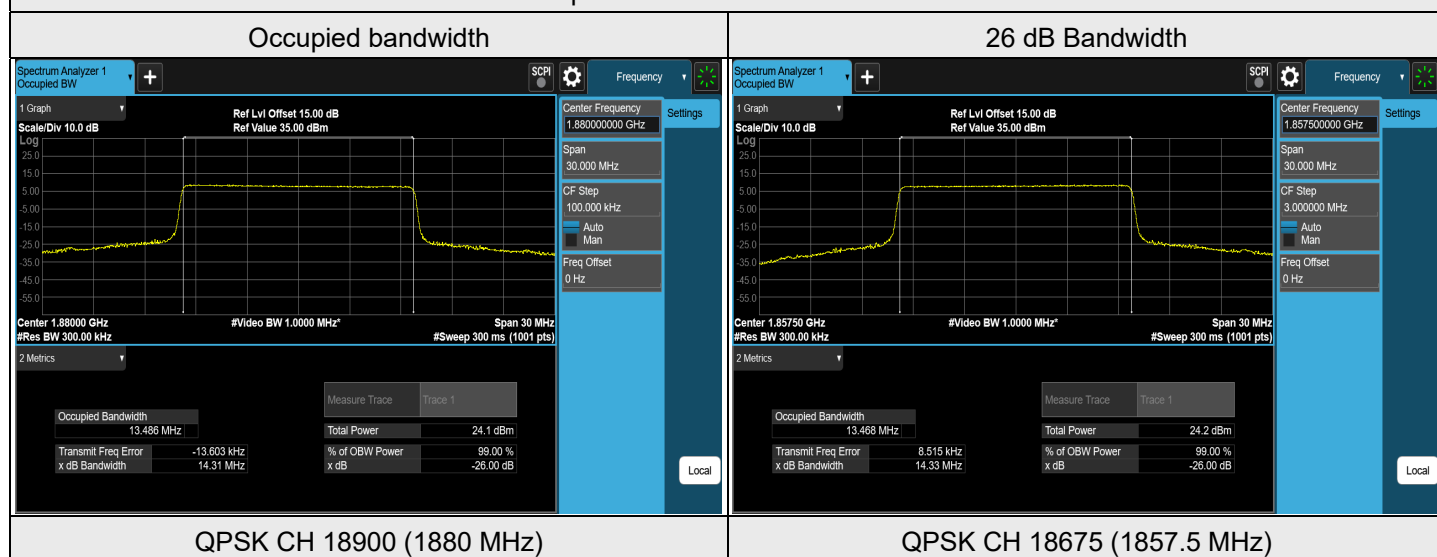
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 15 MHz

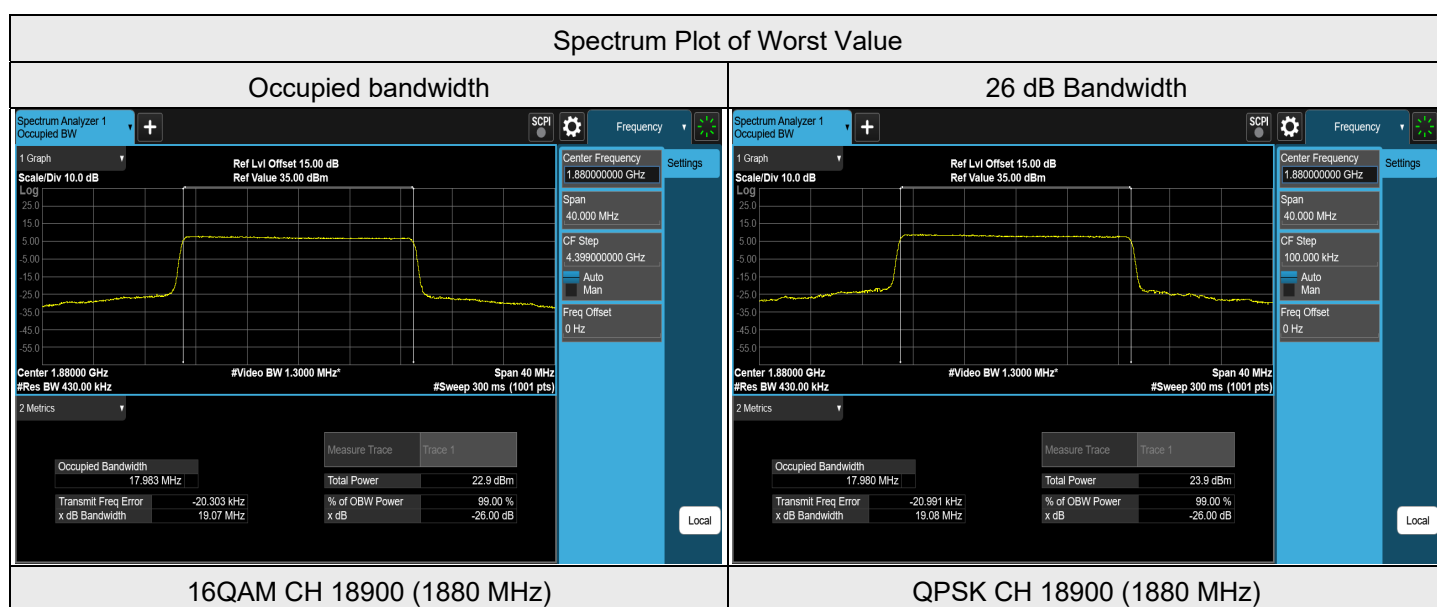
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.468	14.33
QPSK	18900	1880	13.486	14.31
QPSK	19125	1902.5	13.462	14.28
16QAM	18675	1857.5	13.466	14.26
16QAM	18900	1880	13.473	14.26
16QAM	19125	1902.5	13.461	14.25
64QAM	18675	1857.5	13.462	14.27
64QAM	18900	1880	13.476	14.29
64QAM	19125	1902.5	13.454	14.27
256QAM	18675	1857.5	13.463	14.26
256QAM	18900	1880	13.471	14.28
256QAM	19125	1902.5	13.452	14.26

Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 20 MHz

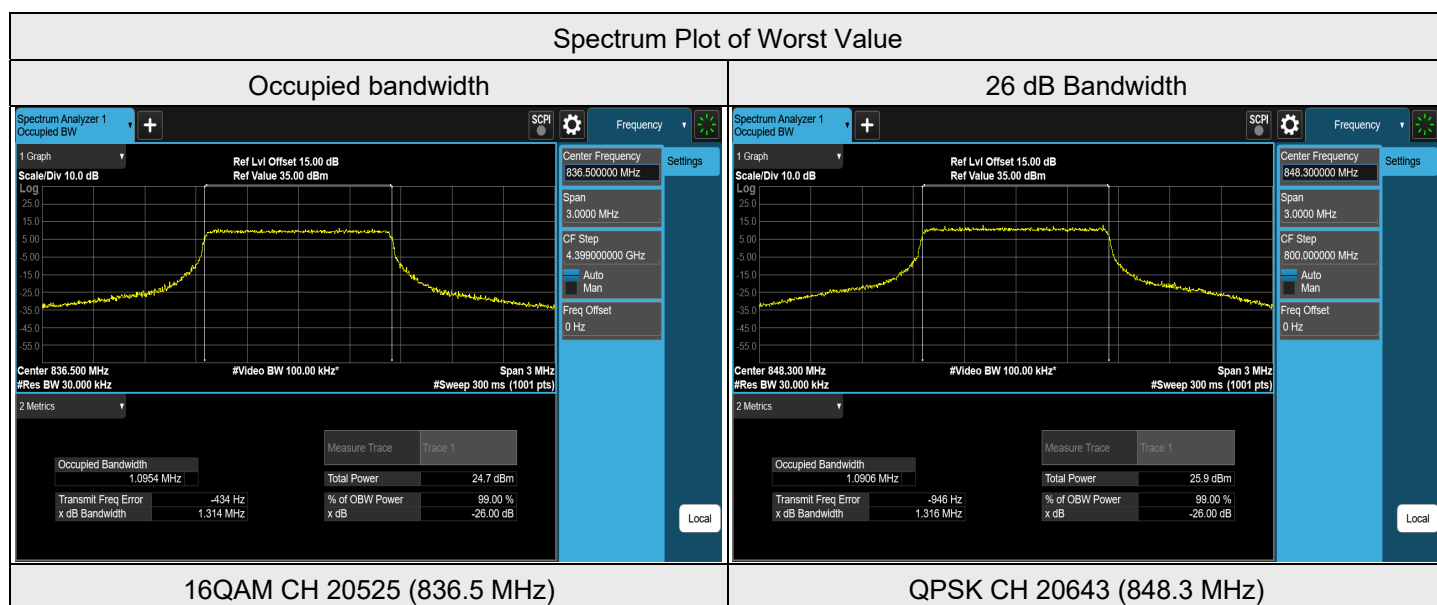
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.955	19.04
QPSK	18900	1880	17.980	19.08
QPSK	19100	1900	17.937	19.07
16QAM	18700	1860	17.961	19.07
16QAM	18900	1880	17.983	19.07
16QAM	19100	1900	17.923	19.05
64QAM	18700	1860	17.954	19.07
64QAM	18900	1880	17.979	19.06
64QAM	19100	1900	17.919	19.03
256QAM	18700	1860	17.952	19.03
256QAM	18900	1880	17.969	19.03
256QAM	19100	1900	17.918	19.02



7.4.2 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

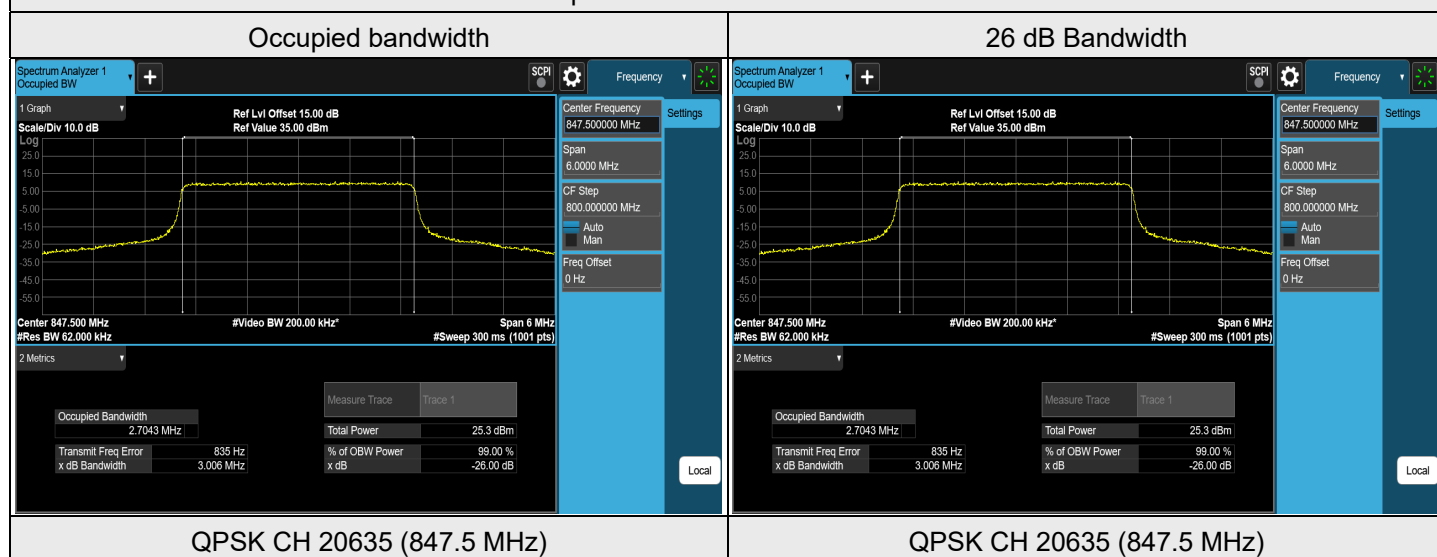
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0911	1.315
QPSK	20525	836.5	1.0921	1.310
QPSK	20643	848.3	1.0906	1.316
16QAM	20407	824.7	1.0921	1.298
16QAM	20525	836.5	1.0954	1.314
16QAM	20643	848.3	1.0930	1.310
64QAM	20407	824.7	1.0932	1.307
64QAM	20525	836.5	1.0918	1.304
64QAM	20643	848.3	1.0888	1.295
256QAM	20407	824.7	1.0900	1.301
256QAM	20525	836.5	1.0922	1.292
256QAM	20643	848.3	1.0907	1.292



LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.7019	2.991
QPSK	20525	836.5	2.7015	2.981
QPSK	20635	847.5	2.7043	3.006
16QAM	20415	825.5	2.7002	2.964
16QAM	20525	836.5	2.7002	2.994
16QAM	20635	847.5	2.7016	2.963
64QAM	20415	825.5	2.7006	2.955
64QAM	20525	836.5	2.6999	2.942
64QAM	20635	847.5	2.7032	2.932
256QAM	20415	825.5	2.6992	2.945
256QAM	20525	836.5	2.7021	2.939
256QAM	20635	847.5	2.7016	2.965

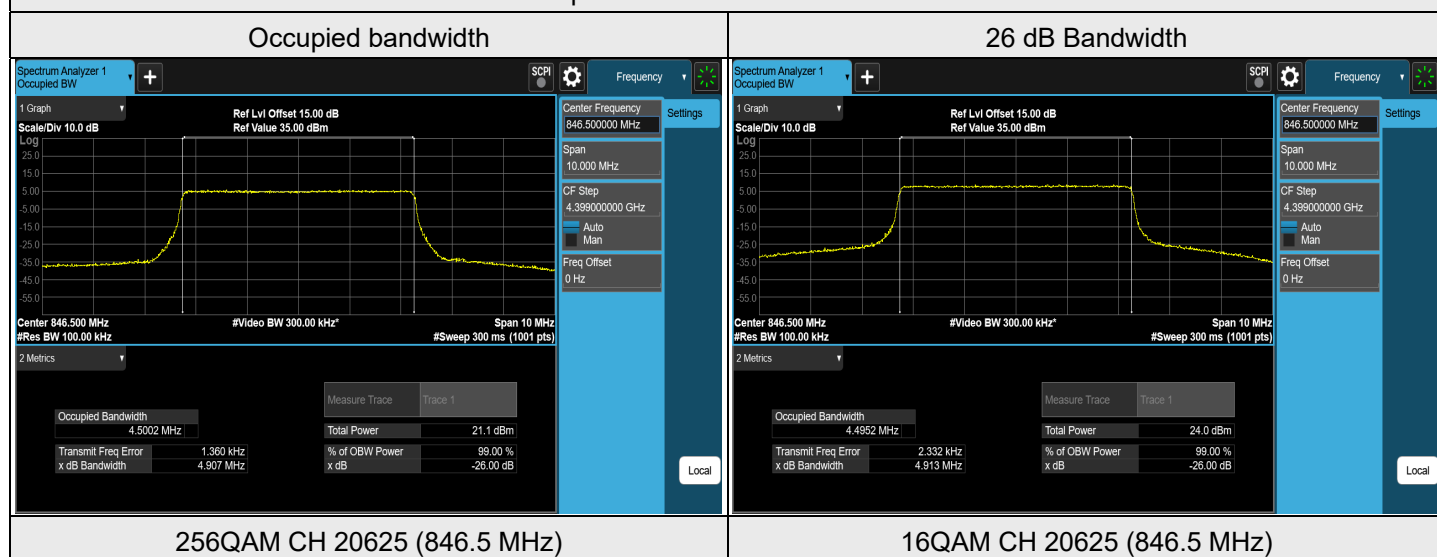
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 5 MHz

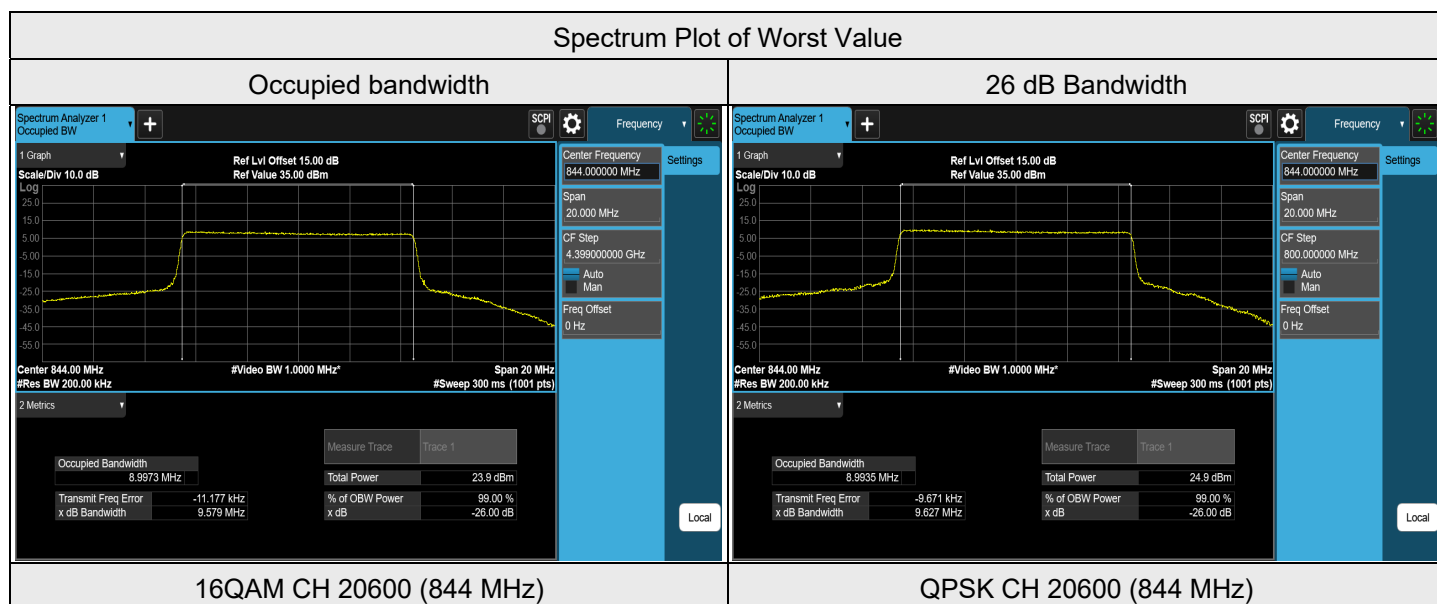
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4914	4.884
QPSK	20525	836.5	4.4912	4.893
QPSK	20625	846.5	4.4983	4.907
16QAM	20425	826.5	4.4931	4.877
16QAM	20525	836.5	4.4932	4.880
16QAM	20625	846.5	4.4952	4.913
64QAM	20425	826.5	4.4977	4.896
64QAM	20525	836.5	4.4900	4.873
64QAM	20625	846.5	4.4956	4.912
256QAM	20425	826.5	4.4934	4.882
256QAM	20525	836.5	4.4948	4.864
256QAM	20625	846.5	4.5002	4.907

Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 10 MHz

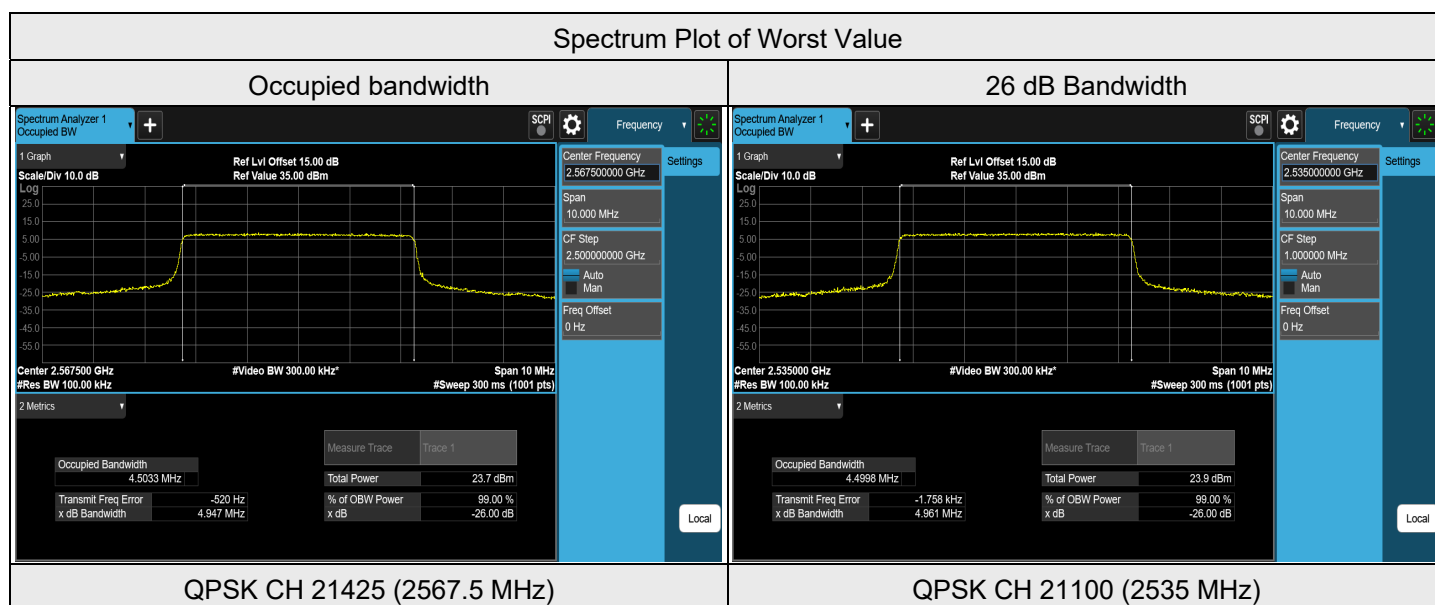
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9784	9.598
QPSK	20525	836.5	8.9634	9.564
QPSK	20600	844	8.9935	9.627
16QAM	20450	829	8.9810	9.583
16QAM	20525	836.5	8.9601	9.551
16QAM	20600	844	8.9973	9.579
64QAM	20450	829	8.9706	9.561
64QAM	20525	836.5	8.9598	9.548
64QAM	20600	844	8.9955	9.550
256QAM	20450	829	8.9755	9.570
256QAM	20525	836.5	8.9634	9.568
256QAM	20600	844	8.9966	9.553



7.4.3 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

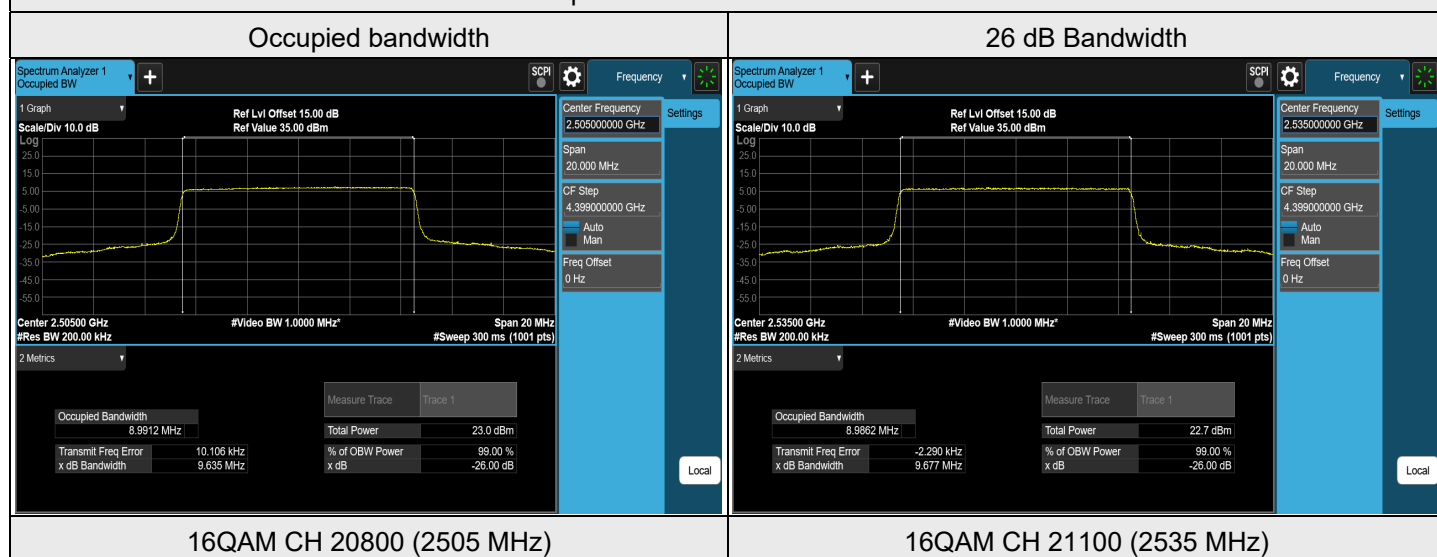
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20775	2502.5	4.5013	4.909
QPSK	21100	2535	4.4998	4.961
QPSK	21425	2567.5	4.5033	4.947
16QAM	20775	2502.5	4.4942	4.948
16QAM	21100	2535	4.4944	4.947
16QAM	21425	2567.5	4.4938	4.943
64QAM	20775	2502.5	4.4934	4.883
64QAM	21100	2535	4.4975	4.890
64QAM	21425	2567.5	4.4924	4.902
256QAM	20775	2502.5	4.4934	4.899
256QAM	21100	2535	4.4890	4.877
256QAM	21425	2567.5	4.4939	4.882



LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20800	2505	8.9826	9.608
QPSK	21100	2535	8.9836	9.658
QPSK	21400	2565	8.9876	9.676
16QAM	20800	2505	8.9912	9.635
16QAM	21100	2535	8.9862	9.677
16QAM	21400	2565	8.9830	9.658
64QAM	20800	2505	8.9756	9.570
64QAM	21100	2535	8.9836	9.592
64QAM	21400	2565	8.9816	9.586
256QAM	20800	2505	8.9724	9.547
256QAM	21100	2535	8.9771	9.535
256QAM	21400	2565	8.9708	9.528

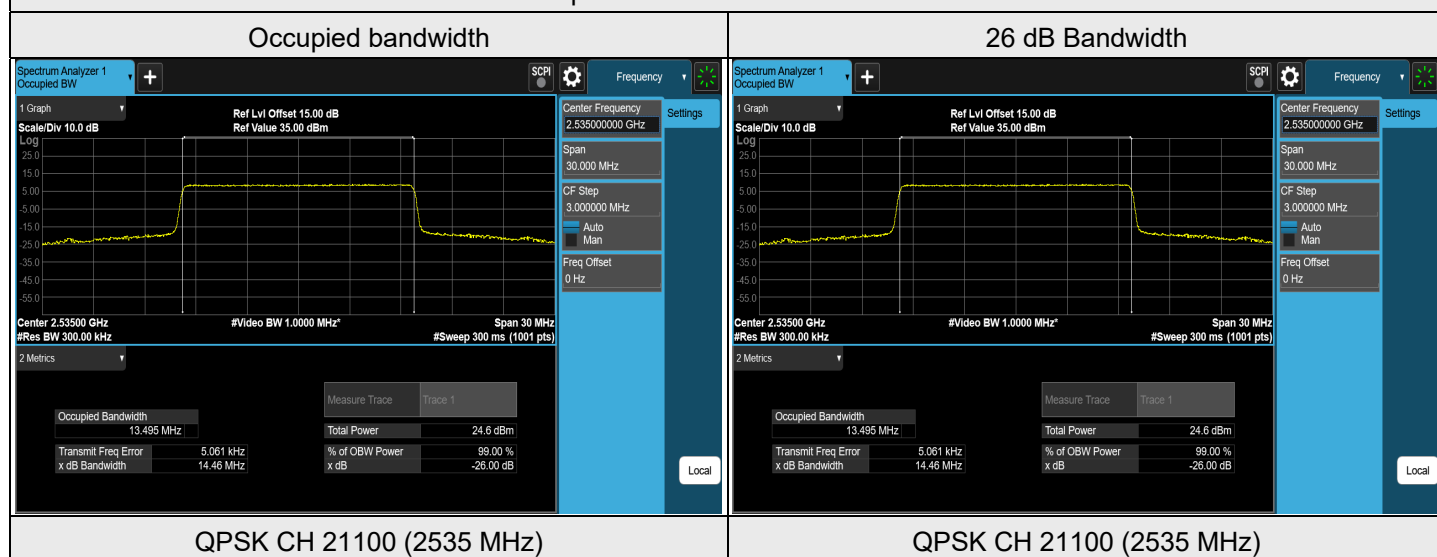
Spectrum Plot of Worst Value



LTE Band 7, Channel Bandwidth: 15 MHz

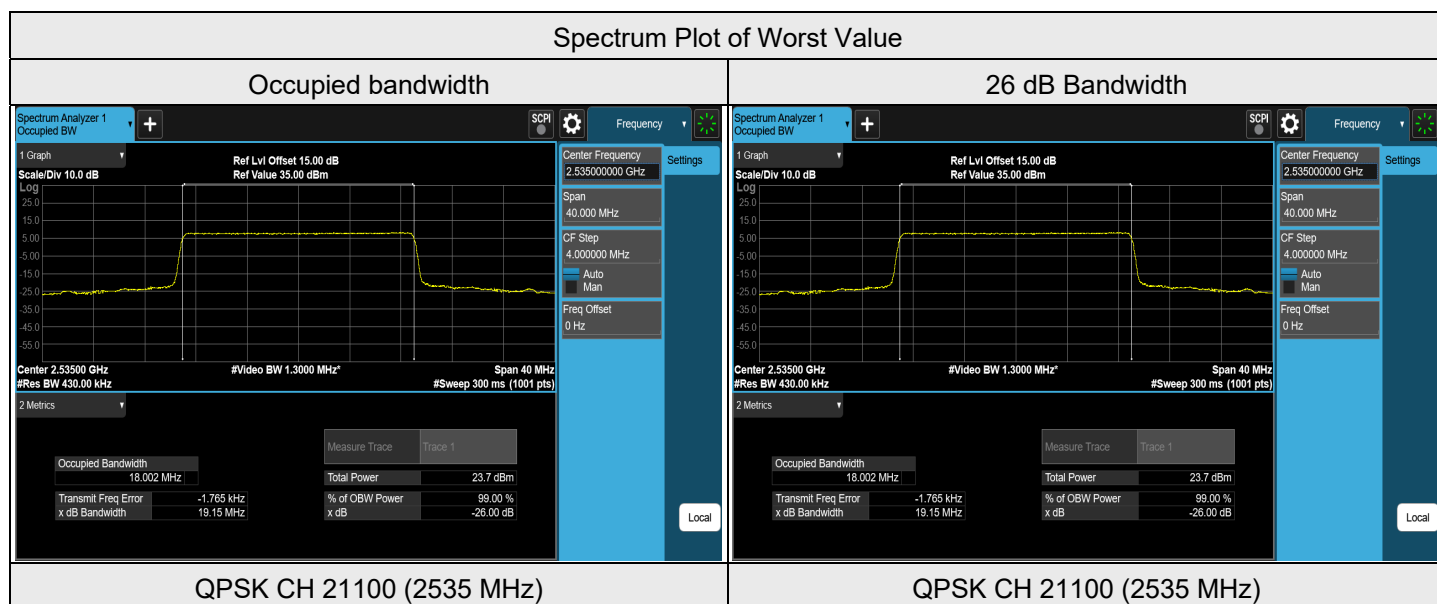
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20825	2507.5	13.467	14.33
QPSK	21100	2535	13.495	14.46
QPSK	21375	2562.5	13.474	14.34
16QAM	20825	2507.5	13.457	14.29
16QAM	21100	2535	13.480	14.34
16QAM	21375	2562.5	13.461	14.29
64QAM	20825	2507.5	13.449	14.24
64QAM	21100	2535	13.472	14.28
64QAM	21375	2562.5	13.456	14.27
256QAM	20825	2507.5	13.451	14.24
256QAM	21100	2535	13.470	14.28
256QAM	21375	2562.5	13.454	14.27

Spectrum Plot of Worst Value



LTE Band 7, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20850	2510	17.937	19.07
QPSK	21100	2535	18.002	19.15
QPSK	21350	2560	17.952	19.07
16QAM	20850	2510	17.933	19.07
16QAM	21100	2535	17.992	19.14
16QAM	21350	2560	17.949	19.08
64QAM	20850	2510	17.918	19.03
64QAM	21100	2535	17.979	19.10
64QAM	21350	2560	17.936	19.03
256QAM	20850	2510	17.925	19.03
256QAM	21100	2535	17.982	19.05
256QAM	21350	2560	17.936	19.03



7.4.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0901	1.308
QPSK	23095	707.5	1.0914	1.307
QPSK	23173	715.3	1.0931	1.359
16QAM	23017	699.7	1.0931	1.320
16QAM	23095	707.5	1.0916	1.324
16QAM	23173	715.3	1.0929	1.317
64QAM	23017	699.7	1.0916	1.299
64QAM	23095	707.5	1.0934	1.333
64QAM	23173	715.3	1.0926	1.306
256QAM	23017	699.7	1.0910	1.291
256QAM	23095	707.5	1.0904	1.299
256QAM	23173	715.3	1.0901	1.281

