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.:	RFBEDW-WTW-P25030825-5
FCC ID:	GKRRXLN3N
Product:	LGA Module
Brand:	COMPAL
Model No.:	RXL-N3n
Received Date:	2025/3/27
Test Date:	2025/5/6 ~ 2025/7/7
Issued Date:	2025/7/23
Applicant:	Compal Electronics, Inc.
Address:	No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Approved by: Jeremy Lin , Date: **2025/7/23**

Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P25030825-5	Original release.	2025/7/23

1 Certificate

Product:	LGA Module
Brand:	COMPAL
Test Model:	RXL-N3n
Sample Status:	Engineering sample
Applicant:	Compal Electronics, Inc.
Test Date:	2025/5/6 ~ 2025/7/7
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 27.50(k) 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) Part 27.50(k)(4)	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 27.53(n) 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 27.53(n) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -5.17 dB at 30.97 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 27.53(n) Part 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -5.80 dB at 4620.00 MHz

Standard / Clause	Test Item	Result	Remark
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	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB
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	LGA Module
Brand	COMPAL
Test Model	RXL-N3n
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc
EUT Category	Mobile station
Modulation Type	LTE: QPSK, 16QAM, 64QAM, 256QAM
LTE support SISO bands	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B30, B38, B41, B42, B43, B48, B66, B71
LTE supports MIMO bands	-
Band Covered Information	LTE Band 41 cover LTE Band 38

Note:

1. 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	0.581	27.64	1M09G7D
		16QAM	0.499	26.98	1M09D7W
		64QAM	0.393	25.94	1M09D7W
		256QAM	0.191	22.82	1M09D7W
3 MHz	1851.5 ~ 1908.5	QPSK	0.585	27.67	2M70G7D
		16QAM	0.507	27.05	2M70D7W
		64QAM	0.396	25.98	2M70D7W
		256QAM	0.194	22.88	2M70D7W
5 MHz	1852.5 ~ 1907.5	QPSK	0.577	27.61	4M49G7D
		16QAM	0.495	26.95	4M49D7W
		64QAM	0.394	25.95	4M49D7W
		256QAM	0.192	22.83	4M49D7W
10 MHz	1855 ~ 1905	QPSK	0.585	27.67	8M98G7D
		16QAM	0.507	27.05	8M99D7W
		64QAM	0.394	25.95	8M98D7W
		256QAM	0.192	22.83	8M98D7W
15 MHz	1857.5 ~ 1902.5	QPSK	0.579	27.63	13M5G7D
		16QAM	0.507	27.05	13M5D7W
		64QAM	0.391	25.92	13M5D7W
		256QAM	0.195	22.91	13M5D7W
20 MHz	1860 ~ 1900	QPSK	0.587	27.69	18M0G7D
		16QAM	0.507	27.05	18M0D7W
		64QAM	0.397	25.99	18M0D7W
		256QAM	0.196	22.92	18M0D7W

LTE Band 4

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1.4 MHz	1710.7 ~ 1754.3	QPSK	0.612	27.87	1M09G7D
		16QAM	0.513	27.10	1M09D7W
		64QAM	0.402	26.04	1M09D7W
		256QAM	0.2	23.00	1M09D7W
3 MHz	1711.5 ~ 1753.5	QPSK	0.611	27.86	2M70G7D
		16QAM	0.511	27.08	2M70D7W
		64QAM	0.413	26.16	2M70D7W
		256QAM	0.205	23.11	2M70D7W
5 MHz	1712.5 ~ 1752.5	QPSK	0.607	27.83	4M49G7D
		16QAM	0.514	27.11	4M50D7W
		64QAM	0.412	26.15	4M49D7W
		256QAM	0.205	23.12	4M50D7W
10 MHz	1715 ~ 1750	QPSK	0.611	27.86	8M98G7D
		16QAM	0.509	27.07	8M98D7W
		64QAM	0.413	26.16	8M98D7W
		256QAM	0.203	23.08	8M98D7W
15 MHz	1717.5 ~ 1747.5	QPSK	0.605	27.82	13M5G7D
		16QAM	0.514	27.11	13M5D7W
		64QAM	0.412	26.15	13M5D7W
		256QAM	0.203	23.07	13M5D7W
20 MHz	1720 ~ 1745	QPSK	0.612	27.87	18M0G7D
		16QAM	0.515	27.12	18M0D7W
		64QAM	0.413	26.16	18M0D7W
		256QAM	0.206	23.13	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	0.222	23.46	1M09G7D
		16QAM	0.193	22.86	1M09D7W
		64QAM	0.146	21.65	1M09D7W
		256QAM	0.071	18.51	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.227	23.56	2M70G7D
		16QAM	0.194	22.87	2M70D7W
		64QAM	0.149	21.72	2M70D7W
		256QAM	0.072	18.58	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.226	23.54	4M50G7D
		16QAM	0.195	22.89	4M50D7W
		64QAM	0.149	21.72	4M50D7W
		256QAM	0.072	18.56	4M50D7W
10 MHz	829 ~ 844	QPSK	0.228	23.57	9M01G7D
		16QAM	0.195	22.89	9M02D7W
		64QAM	0.15	21.75	9M01D7W
		256QAM	0.073	18.64	9M02D7W

LTE Band 7

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2502.5 ~ 2567.5	QPSK	0.493	26.93	4M50G7D
		16QAM	0.416	26.19	4M50D7W
		64QAM	0.351	25.45	4M49D7W
		256QAM	0.164	22.14	4M50D7W
10 MHz	2505 ~ 2565	QPSK	0.5	26.99	8M99G7D
		16QAM	0.418	26.21	8M99D7W
		64QAM	0.356	25.52	8M98D7W
		256QAM	0.166	22.19	8M98D7W
15 MHz	2507.5 ~ 2562.5	QPSK	0.5	26.99	13M5G7D
		16QAM	0.415	26.18	13M5D7W
		64QAM	0.353	25.48	13M5D7W
		256QAM	0.165	22.18	13M5D7W
20 MHz	2510 ~ 2560	QPSK	0.501	27.00	18M0G7D
		16QAM	0.419	26.22	18M0D7W
		64QAM	0.359	25.55	18M0D7W
		256QAM	0.166	22.20	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	0.198	22.96	1M09G7D
		16QAM	0.171	22.33	1M09D7W
		64QAM	0.144	21.59	1M09D7W
		256QAM	0.062	17.94	1M09D7W
3 MHz	700.5 ~ 714.5	QPSK	0.195	22.90	2M70G7D
		16QAM	0.153	21.86	2M70D7W
		64QAM	0.124	20.93	2M70D7W
		256QAM	0.062	17.93	2M69D7W
5 MHz	701.5 ~ 713.5	QPSK	0.197	22.94	4M48G7D
		16QAM	0.154	21.88	4M48D7W
		64QAM	0.124	20.93	4M48D7W
		256QAM	0.062	17.93	4M48D7W
10 MHz	704 ~ 711	QPSK	0.199	22.99	8M92G7D
		16QAM	0.155	21.91	8M93D7W
		64QAM	0.124	20.93	8M92D7W
		256QAM	0.062	17.93	8M91D7W

LTE Band 13

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	779.5 ~ 784.5	QPSK	0.228	23.58	4M50G7D
		16QAM	0.182	22.61	4M50D7W
		64QAM	0.148	21.71	4M50D7W
		256QAM	0.076	18.78	4M50D7W
10 MHz	782	QPSK	0.231	23.64	8M93G7D
		16QAM	0.185	22.68	8M94D7W
		64QAM	0.149	21.74	8M93D7W
		256QAM	0.076	18.78	8M93D7W

LTE Band 14

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	790.5 ~ 795.5	QPSK	0.221	23.44	4M50G7D
		16QAM	0.195	22.90	4M50D7W
		64QAM	0.148	21.71	4M51D7W
		256QAM	0.074	18.71	4M50D7W
10 MHz	793	QPSK	0.223	23.48	9M01G7D
		16QAM	0.182	22.60	9M01D7W
		64QAM	0.143	21.56	9M00D7W
		256QAM	0.074	18.72	9M01D7W

LTE Band 17

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	706.5 ~ 713.5	QPSK	0.201	23.03	4M49G7D
		16QAM	0.175	22.42	4M50D7W
		64QAM	0.143	21.56	4M49D7W
		256QAM	0.068	18.32	4M50D7W
10 MHz	709 ~ 711	QPSK	0.201	23.04	8M96G7D
		16QAM	0.175	22.44	8M95D7W
		64QAM	0.143	21.56	8M96D7W
		256QAM	0.068	18.34	8M96D7W

LTE Band 25

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1.4 MHz	1850.7 ~ 1914.3	QPSK	0.573	27.58	1M09G7D
		16QAM	0.497	26.96	1M09D7W
		64QAM	0.372	25.70	1M09D7W
		256QAM	0.187	22.71	1M09D7W
3 MHz	1851.5 ~ 1913.5	QPSK	0.57	27.56	2M70G7D
		16QAM	0.504	27.02	2M70D7W
		64QAM	0.378	25.78	2M71D7W
		256QAM	0.191	22.81	2M70D7W
5 MHz	1852.5 ~ 1912.5	QPSK	0.573	27.58	4M50G7D
		16QAM	0.501	27.00	4M50D7W
		64QAM	0.377	25.76	4M50D7W
		256QAM	0.189	22.76	4M50D7W
10 MHz	1855 ~ 1910	QPSK	0.574	27.59	8M98G7D
		16QAM	0.504	27.02	8M98D7W
		64QAM	0.378	25.77	8M98D7W
		256QAM	0.193	22.85	8M97D7W
15 MHz	1857.5 ~ 1907.5	QPSK	0.575	27.60	13M5G7D
		16QAM	0.504	27.02	13M5D7W
		64QAM	0.378	25.77	13M4D7W
		256QAM	0.19	22.78	13M5D7W
20 MHz	1860 ~ 1905	QPSK	0.578	27.62	18M0G7D
		16QAM	0.507	27.05	17M9D7W
		64QAM	0.384	25.84	18M0D7W
		256QAM	0.193	22.85	18M0D7W

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	0.225	23.52	1M10G7D
		16QAM	0.192	22.83	1M10D7W
		64QAM	0.155	21.90	1M09D7W
		256QAM	0.077	18.84	1M09D7W
3 MHz	815.5 ~ 822.5	QPSK	0.224	23.51	2M70G7D
		16QAM	0.185	22.67	2M70D7W
		64QAM	0.156	21.94	2M70D7W
		256QAM	0.077	18.89	2M70D7W
5 MHz	816.5 ~ 821.5	QPSK	0.222	23.47	4M51G7D
		16QAM	0.186	22.70	4M51D7W
		64QAM	0.156	21.93	4M50D7W
		256QAM	0.076	18.82	4M50D7W
10 MHz	819	QPSK	0.218	23.38	9M03G7D
		16QAM	0.18	22.55	9M03D7W
		64QAM	0.151	21.78	9M02D7W
		256QAM	0.074	18.69	9M02D7W

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	0.225	23.52	1M09G7D
		16QAM	0.197	22.94	1M09D7W
		64QAM	0.157	21.95	1M09D7W
		256QAM	0.076	18.80	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.223	23.49	2M70G7D
		16QAM	0.188	22.75	2M70D7W
		64QAM	0.156	21.93	2M70D7W
		256QAM	0.076	18.79	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.222	23.47	4M50G7D
		16QAM	0.186	22.70	4M50D7W
		64QAM	0.154	21.88	4M50D7W
		256QAM	0.077	18.87	4M50D7W
10 MHz	829 ~ 844	QPSK	0.224	23.50	9M02G7D
		16QAM	0.185	22.68	9M01D7W
		64QAM	0.156	21.94	9M02D7W
		256QAM	0.077	18.87	9M01D7W
15 MHz	831.5 ~ 841.5	QPSK	0.225	23.52	13M5G7D
		16QAM	0.188	22.75	13M5D7W
		64QAM	0.157	21.96	13M5D7W
		256QAM	0.077	18.89	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	0.245	23.9	4M52G7D
		16QAM	0.198	22.97	4M53D7W
		64QAM	0.174	22.4	4M52D7W
		256QAM	0.090	19.53	4M49D7W
10 MHz	2310	QPSK	0.249	23.97	9M01G7D
		16QAM	0.199	22.98	9M00D7W
		64QAM	0.178	22.50	8M98D7W
		256QAM	0.090	19.53	8M97D7W

LTE Band 41, PC2

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2498.5 ~ 2687.5	QPSK	0.929	29.68	4M50G7D
		16QAM	0.822	29.15	4M50D7W
		64QAM	0.635	28.03	4M50D7W
		256QAM	0.313	24.96	4M50D7W
10 MHz	2501 ~ 2685	QPSK	0.933	29.7	8M98G7D
		16QAM	0.824	29.16	8M97D7W
		64QAM	0.632	28.01	8M98D7W
		256QAM	0.316	25	8M98D7W
15 MHz	2503.5 ~ 2682.5	QPSK	0.923	29.65	13M5G7D
		16QAM	0.832	29.2	13M5D7W
		64QAM	0.627	27.97	13M5D7W
		256QAM	0.319	25.04	13M5D7W
20 MHz	2506 ~ 2680	QPSK	0.938	29.72	18M0G7D
		16QAM	0.836	29.22	18M0D7W
		64QAM	0.637	28.04	18M0D7W
		256QAM	0.319	25.04	18M0D7W

LTE Band 41, PC3

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2498.5 ~ 2687.5	QPSK	0.463	26.66	4M50G7D
		16QAM	0.366	25.64	4M50D7W
		64QAM	0.289	24.61	4M50D7W
		256QAM	0.146	21.65	4M50D7W
10 MHz	2501 ~ 2685	QPSK	0.465	26.67	8M98G7D
		16QAM	0.367	25.65	8M97D7W
		64QAM	0.291	24.64	8M98D7W
		256QAM	0.149	21.73	8M98D7W
15 MHz	2503.5 ~ 2682.5	QPSK	0.467	26.69	13M5G7D
		16QAM	0.367	25.65	13M5D7W
		64QAM	0.290	24.62	13M5D7W
		256QAM	0.147	21.66	13M5D7W
20 MHz	2506 ~ 2680	QPSK	0.467	26.69	18M0G7D
		16QAM	0.371	25.69	18M0D7W
		64QAM	0.295	24.7	18M0D7W
		256QAM	0.149	21.73	18M0D7W

LTE Band 42 (3.45 GHz ~ 3.55 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	3452.5 ~ 3547.5	QPSK	0.178	22.51	4M49G7D
		16QAM	0.135	21.30	4M49D7W
		64QAM	0.107	20.28	4M50D7W
		256QAM	0.054	17.34	4M50D7W
10 MHz	3455 ~ 3545	QPSK	0.18	22.55	8M98G7D
		16QAM	0.134	21.27	8M99D7W
		64QAM	0.108	20.32	8M97D7W
		256QAM	0.054	17.34	8M97D7W
15 MHz	3457.5 ~ 3542.5	QPSK	0.179	22.53	13M5G7D
		16QAM	0.133	21.25	13M5D7W
		64QAM	0.109	20.36	13M5D7W
		256QAM	0.054	17.33	13M5D7W
20 MHz	3460 ~ 3540	QPSK	0.18	22.56	18M0G7D
		16QAM	0.135	21.31	18M0D7W
		64QAM	0.109	20.37	18M0D7W
		256QAM	0.054	17.36	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	0.522	27.18	1M09G7D
		16QAM	0.451	26.54	1M09D7W
		64QAM	0.392	25.93	1M09D7W
		256QAM	0.166	22.19	1M09D7W
3 MHz	1711.5 ~ 1778.5	QPSK	0.515	27.12	2M70G7D
		16QAM	0.431	26.34	2M70D7W
		64QAM	0.346	25.39	2M70D7W
		256QAM	0.166	22.2	2M70D7W
5 MHz	1712.5 ~ 1777.5	QPSK	0.512	27.09	4M50G7D
		16QAM	0.430	26.33	4M50D7W
		64QAM	0.348	25.42	4M49D7W
		256QAM	0.167	22.24	4M50D7W
10 MHz	1715 ~ 1775	QPSK	0.520	27.16	8M97G7D
		16QAM	0.452	26.55	8M98D7W
		64QAM	0.352	25.46	8M97D7W
		256QAM	0.169	22.27	8M98D7W
15 MHz	1717.5 ~ 1772.5	QPSK	0.515	27.12	13M5G7D
		16QAM	0.430	26.33	13M5D7W
		64QAM	0.350	25.44	13M5D7W
		256QAM	0.167	22.23	13M5D7W
20 MHz	1720 ~ 1770	QPSK	0.522	27.18	18M0G7D
		16QAM	0.453	26.56	18M0D7W
		64QAM	0.352	25.47	18M0D7W
		256QAM	0.169	22.27	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	0.192	22.84	4M50G7D
		16QAM	0.162	22.09	4M50D7W
		64QAM	0.132	21.20	4M50D7W
		256QAM	0.065	18.12	4M49D7W
10 MHz	668 ~ 693	QPSK	0.191	22.81	8M99G7D
		16QAM	0.161	22.06	8M99D7W
		64QAM	0.132	21.21	8M99D7W
		256QAM	0.065	18.15	8M99D7W
15 MHz	670.5 ~ 690.5	QPSK	0.19	22.79	13M5G7D
		16QAM	0.159	22.02	13M5D7W
		64QAM	0.131	21.16	13M5D7W
		256QAM	0.064	18.08	13M5D7W
20 MHz	673 ~ 688	QPSK	0.193	22.86	18M0G7D
		16QAM	0.163	22.12	18M0D7W
		64QAM	0.133	21.24	18M0D7W
		256QAM	0.065	18.15	18M0D7W

2. The EUT uses following support units.

Jig	
Brand	Compal
Model	ZYN6
Adapter	
Brand	ChenzhouFrecom Electronics Co. Ltd
Model	F24L5-120200SPAU
Input Power	100-240V~50/60Hz 0.6A
Output Power	12.0V⎓2.0A 24.0W

3. The EUT uses following accessories.

Item	Brand	Model
Ant	INPAQ	ANT0/1/2/3 GNSS

4. 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.
5. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

LTE Band					
Type	External				
Brand	INPAQ				
Band	Freq. Range (MHz)	Peak Gain without cable loss (dBi)			
		Ant. 0 (Main)	Ant. 1 (DRx)	Ant. 2 (DRx)	Ant. 3 (Aux)
LTE B2 (Ant 0)	1850 ~ 1910	3.2	3.2	3.2	3.2
LTE B4 (Ant 0)	1710 ~ 1755	3.31	3.31	3.31	3.31
LTE B5 (Ant 0)	824 ~ 849	1.25	1.25	1.25	1.25
LTE B7 (Ant 3)	2500 ~ 2570	2.88	2.88	2.88	2.88
LTE B12 (Ant 0)	698 ~ 716	0.78	0.78	0.78	0.78
LTE B13 (Ant 0)	777 ~ 787	0.91	0.91	0.91	0.91
LTE B14 (Ant 0)	788 ~ 798	0.91	0.91	0.91	0.91
LTE B17 (Ant 0)	704 ~ 716	0.82	0.82	0.82	0.82
LTE B25 (Ant 0)	1850 ~ 1915	3.2	3.2	3.2	3.2
LTE B26 (Ant 0)	814 ~ 849	1.25	1.25	1.25	1.25
LTE B30 (Ant 3)	2305 ~ 2315	0	0	0	0
LTE B38 (Ant 3)	2570 ~ 2620	2.75	2.75	2.75	2.75
LTE B41 (Ant 3)	2496 ~ 2690	2.75	2.75	2.75	2.75
LTE B42 (Ant 0)	3400 ~ 3600	-1.5	-1.5	-1.5	-1.5
LTE B43 (Ant 0)	3600 ~ 3800	-1	-1	-1	-1
LTE B48 (Ant 0)	3550 ~ 3700	-1	-1	-1	-1
LTE B66 (Ant 0)	1710 ~ 1780	2.31	2.31	2.31	2.31
LTE B71 (Ant 3)	663 ~ 698	0.53	0.53	0.53	0.53

*The EUT is SISO mode only in LTE Bands, the transmitter antenna is as shown in the brackets in the antenna table.

Ant. No.	Cable Loss (dB)	Cable Length (mm)
Ant. 0	1.5	141.1
Ant. 1	1.3	120.3
Ant. 2	1	78.2
Ant. 3	1.3	121.2

*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.

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

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The antenna of EUT can be used in the following ways: 0 degree/90 degrees. 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:	1. 0 degree/90 degrees Worst Condition: 90 degrees

3.3.1 LTE Band 2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	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	18900(1880.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	18900(1880.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	18900(1880.00 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	18607(1850.70 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	18615(1851.50 MHz) 19185(1908.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	18625(1852.50 MHz) 19175(1907.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	18650(1855.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	18675(1857.50 MHz) 19125(1902.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz)*3 19100(1900.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	18900(1880.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK	1 RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK	1 RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	18900(1880.00 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.2 LTE Band 4

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	20175(1732.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	20175(1732.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	20175(1732.50 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	19957(1710.70 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	19965(1711.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	19975(1712.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20000(1715.00 MHz) 20350(1750.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20025(1717.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz)*3 20300(1745.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20375(1752.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	1 RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	1 RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	20175(1732.50 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.3 LTE Band 5

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	20525(836.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	20525(836.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	20525(836.50 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	20407(824.70 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20415(825.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20425(826.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20450(829.00 MHz) 20525(836.50 MHz)*3 20600(844.00 MHz)	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	20643(848.30 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK	1 RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK	1 RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	20525(836.50 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.4 LTE Band 7

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	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
Modulation Characteristics	21100(2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	21100(2535.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	21100(2535.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	20775(2502.50 MHz) 21425(2567.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20800(2505.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20825(2507.50 MHz) 21375(2562.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	20850(2510.00 MHz) 21100(2535.00 MHz)*3 21350(2560.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	21100(2535.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK	1 RB
	20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	21100(2535.00 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.5 LTE Band 12

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	23095(707.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23095(707.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23095(707.50 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23017(699.70 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23025(700.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23035(701.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23060(704.00 MHz) 23095(707.50 MHz)*3 23130(711.00 MHz)	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	23095(707.50 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK	1 RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK	1 RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23095(707.50 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.6 LTE Band 13

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23230(782.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23205(779.50 MHz) 23255(784.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23230(782.00 MHz)*1	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK	1 RB
	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23230(782.00 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.7 LTE Band 14

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23330(793.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23305(790.50 MHz) 23355(795.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23330(793.00 MHz)*1	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	23330(793.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK	1 RB
	23330(793.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23330(793.00 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge				

3.3.8 LTE Band 17

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	23790(710.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23790(710.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23790(710.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23755(706.50 MHz) 23825(713.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	23780(709.00 MHz) 23790(710.00 MHz)*3 23800(711.00 MHz)	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	23755(706.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK	1 RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23790(710.00 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.9 LTE Band 25

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	26365(1882.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	26365(1882.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	26365(1882.50 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26047(1850.70 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26055(1851.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26065(1852.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26090(1855.00 MHz) 26640(1910.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26115(1857.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26140(1860.00 MHz) 26365(1882.50 MHz)*3 26590(1905.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26665(1912.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK	1 RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK	1 RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	26365(1882.50 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.10 LTE Band 26 (814 MHz ~ 824 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	-	-	-	-
Bandwidth	26740(819.00 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26697(814.70 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26705(815.50 MHz) 26775(822.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26715(816.50 MHz) 26765(821.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26740(819.00 MHz)*1	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	26740(819.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK	1 RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK	1 RB
	26740(819.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	26740(819.00 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge				

3.3.11 LTE Band 26 (824 MHz ~ 849 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	26915(836.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	26915(836.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	26915(836.50 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26797(824.70 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26805(825.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26815(826.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26840(829.00 MHz) 26990(844.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	26865(831.50 MHz) 26915(836.50 MHz)*3 26965(841.50 MHz)	15 MHz	QPSK*1/256QAM*1	1 RB Full RB*2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26915(836.50 MHz)	15 MHz	QPSK	Full RB
Radiated Spurious Emissions above 1GHz	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK	1 RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK	1 RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK	1 RB
Frequency Stability	26915(836.50 MHz)	15 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.12 LTE Band 30

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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	27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	27710(2310.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	27710(2310.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	27685(2307.50 MHz) 27735(2312.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	27710(2310.00 MHz)*1	10 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	27710(2310.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	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	27710(2310.00 MHz)	10 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge				

3.3.13 LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	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	40620(2593.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	40620(2593.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	40620(2593.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	39675(2498.50 MHz) 41565(2687.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	39700(2501.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	39725(2503.50 MHz) 41515(2682.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	39750(2506.00 MHz) 40620(2593.00 MHz)*3 41490(2680.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	40620(2593.00 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK	1 RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	40620(2593.00 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only EUT support LTE Band 41 PC 3 and PC 2				

3.3.14 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	42590(3500.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	42590(3500.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	42590(3500.00 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Conducted Spurious Emissions	42115(3452.50 MHz) 43065(3547.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB
	42140(3455.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB
	42165(3457.50 MHz) 43015(3542.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz)*3 42990(3540.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	42990(3540.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	42590(3500.00 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.3.15 LTE Band 66

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	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	132322(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	132322(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	132322(1745.00 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	131979(1710.70 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK*2/256QAM*2	1 RB Full RB
	131987(1711.50 MHz) 132657(1778.50 MHz)	3 MHz	QPSK*2/256QAM*2	1 RB Full RB
	131997(1712.50 MHz) 132647(1777.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	132022(1715.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	132047(1717.50 MHz) 132597(1772.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	132072(1720.00 MHz) 132322(1745.00 MHz)*3 132572(1770.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions above 1GHz	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK	1 RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	132322(1745.00 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

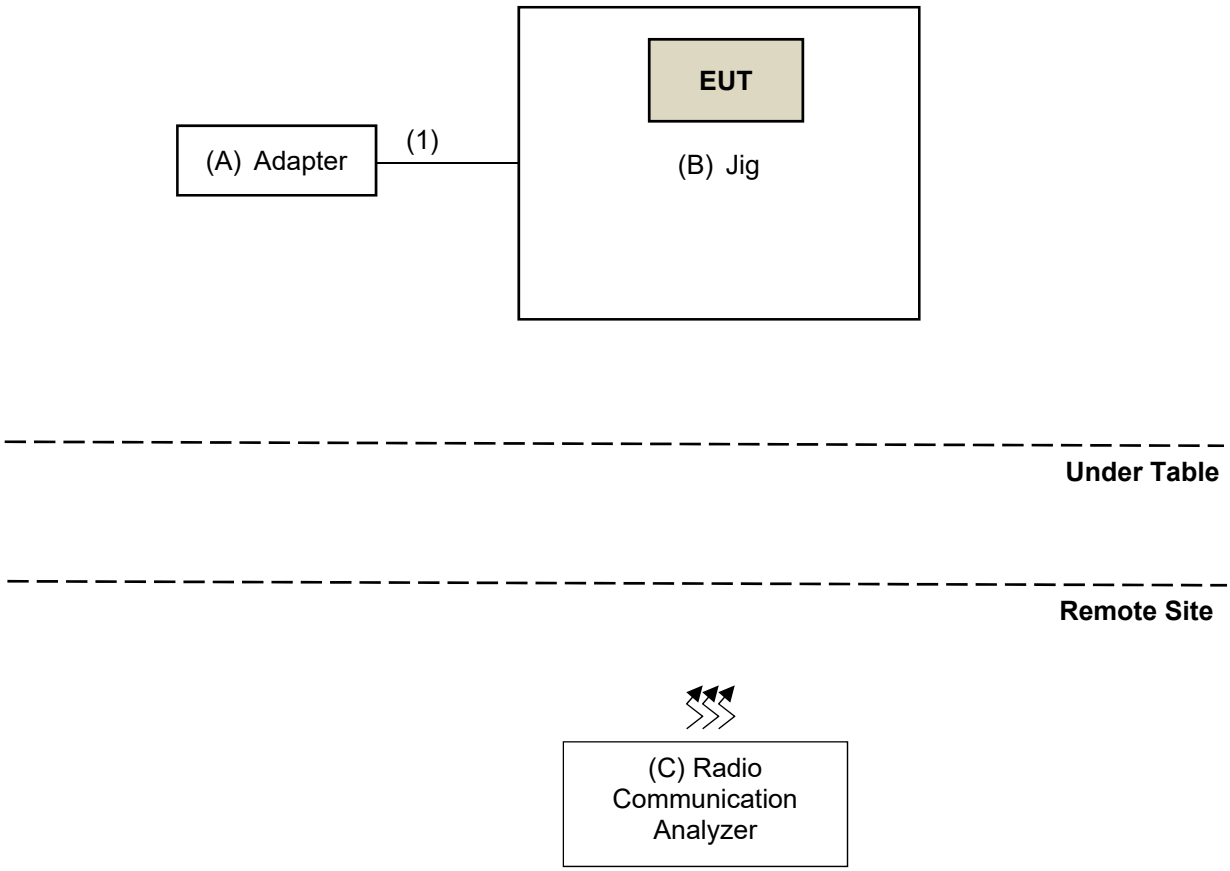
3.3.16 LTE Band 71

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	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
Modulation Characteristics	133297(680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	133297(680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	133297(680.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
		20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	133147(665.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK*2/256QAM*2	1 RB Full RB
	133172(668.00 MHz) 133422(693.00 MHz)	10 MHz	QPSK*2/256QAM*2	1 RB Full RB
	133197(670.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK*2/256QAM*2	1 RB Full RB
	133222(673.00 MHz) 133297(680.50 MHz)*3 133372(688.00 MHz)	20 MHz	QPSK*1/256QAM*1	1 RB Full RB*2
Radiated Spurious Emissions below 1GHz	133297(680.50 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK	1 RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	133297(680.50 MHz)	20 MHz	QPSK	Full RB
Note: *1 Conducted emission and Band edge、*2 Conducted Band edge、*3 Conducted emission only				

3.4 Test Program Used and Operation Descriptions

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

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	ChenzhouFrecom Electronics Co. Ltd	F24L5-120200SPAU	NA	NA	Supplied by applicant
B	Jig	Compal	ZYN6	NA	NA	Supplied by applicant
C	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Cable	1	1	No	0	Supplied by applicant

4 Test Instruments

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

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2024/5/29 2025/5/23	2025/5/28 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: 2025/5/6 ~ 2025/7/7

4.2 Modulation Characteristics

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Peak to Average Ratio

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2024/10/9	2025/10/8
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/5/14 ~ 2025/5/19

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2024/11/10	2025/11/9
	BBHA 9170	9170-480	2024/11/10	2025/11/9
		BBHA9170243	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/5/12 ~ 2025/5/13

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
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
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: 2025/7/2

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

For LTE Band 4, LTE Band 66:

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

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

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

For LTE Band 7, LTE Band 41:

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

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

Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

For LTE Band 13:

Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

For LTE Band 14:

Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 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 42 (3.45 GHz ~ 3.55 GHz):

Mobile devices are limited to 1Watt (30 dBm) 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 25, 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 4, 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.

For LTE Band 7, LTE Band 41:

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

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

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

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.
According to FCC 47 CFR part 27.53(c)(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

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

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

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

For LTE Band 26 (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 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

5.6 Radiated Spurious Emissions below 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, 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 4, 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.

For LTE Band 7, LTE Band 41:

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

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

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

For LTE Band 13:

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

For 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 grater 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 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

5.7 Radiated Spurious Emissions above 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, 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 4, 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.

For LTE Band 7, LTE Band 41:

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

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

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

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB. The limit of emissions is equal to -13 dBm.
For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 14:

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

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

For LTE Band 26 (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 grater 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 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

5.8 Frequency Stability

For LTE Band 2, LTE Band 4, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 25, LTE Band 30, LTE Band 41, LTE Band 42 (3.45 GHz ~ 3.55 GHz), 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:

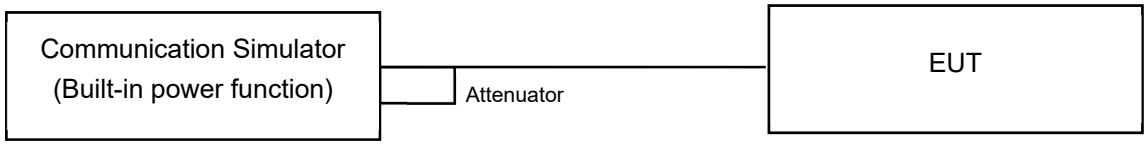
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

6 Test Arrangements

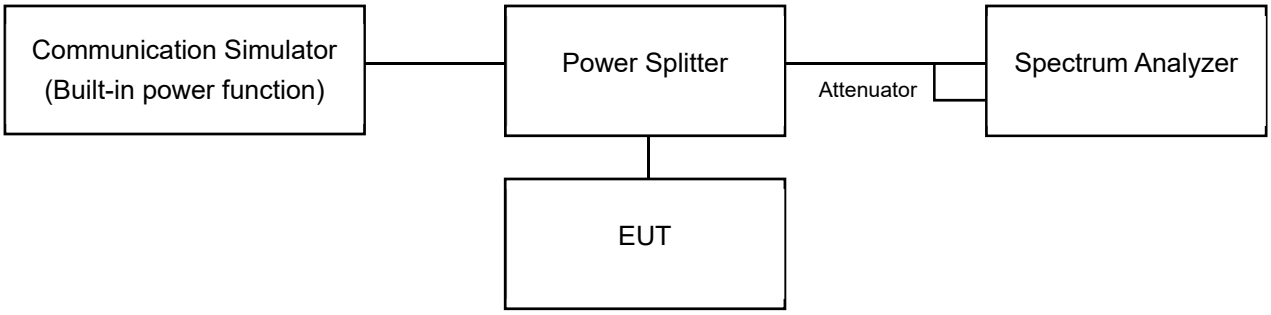
6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

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.

a. Set span to 2 × to 3 × the OBW.
b. Set RBW = 1% to 5% of the OBW.
c. Set VBW ≥ 3 × RBW.
d. Set number of measurement points in sweep ≥ 2 × span / RBW.
e. Set Sweep time = auto-couple.
f. Detector = power averaging (rms).
g. Set sweep trigger to “free run.”
h. Trace average at least 100 traces in power averaging (rms) mode.
i. 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.
j. If Duty cycle < 98%, Add 10 log (1/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:

$EIRP = P_{Meas} + G_T$

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

where

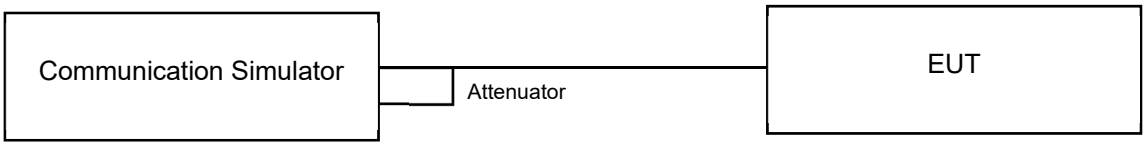
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, e.g., dBm or dBW)

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

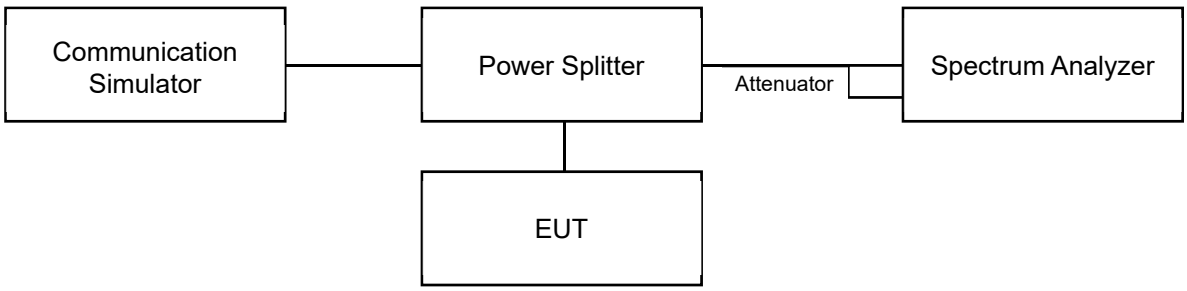


6.2.2 Test Procedure

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

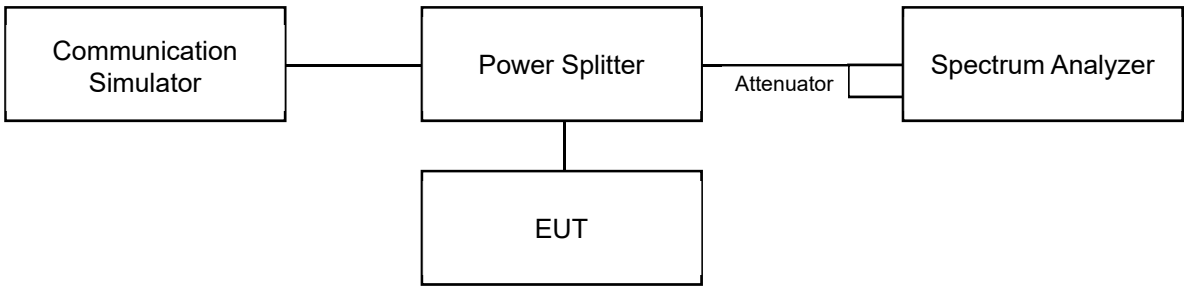


6.3.2 Test Procedure

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

6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

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

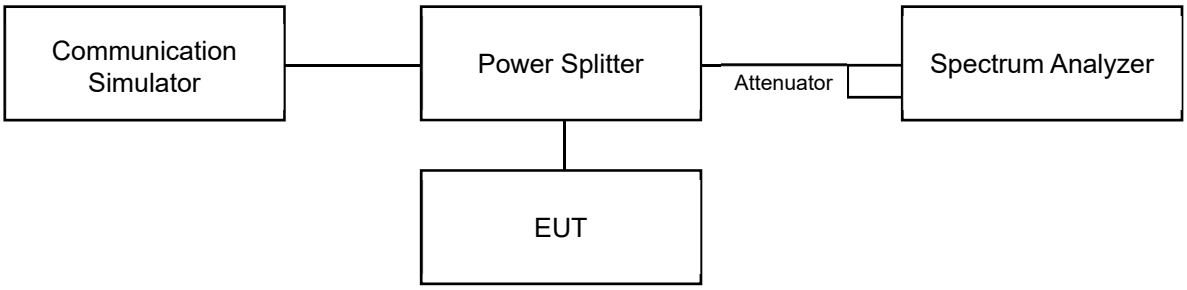
a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and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

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

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

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



6.5.2 Test Procedure

a. Measurement refer to ANSI C63.26 section 5.7.
b. All measurements were done at 3 channels: low, middle and high operational frequency range.
c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the hightest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
e. The fundamental frequency below 1 GHz, the spectrum set RBW ≥ 100 kHz, VBW ≥ 3 x RBW, Detector = Average.
f. Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
g. 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* log(1000/100). To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
h. Record the maximum power value test plot.

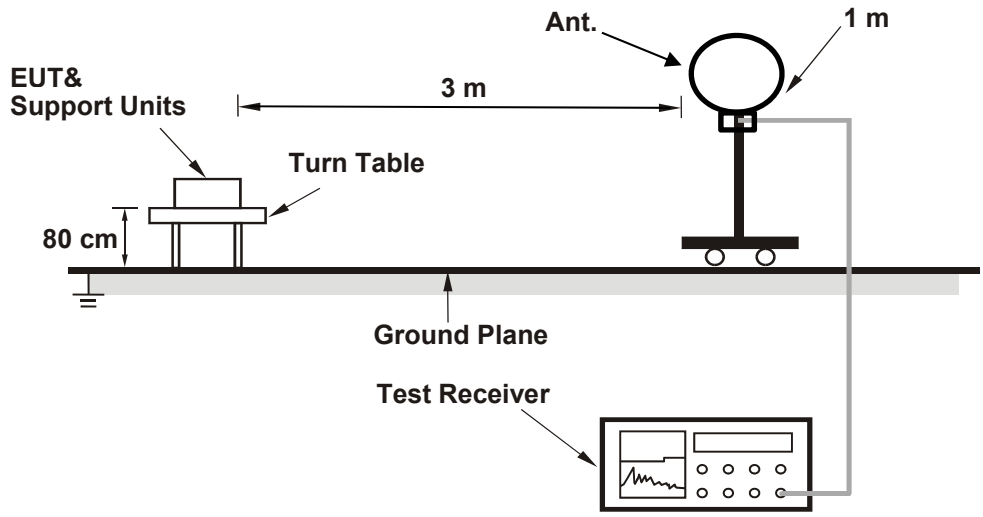
For Emission Mask:

a. Measurement refer to ANSI C63.26 section 5.7.
b. All measurements were done at 2 channels: low and high operational frequency range.
c. 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.
d. 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* log(1000/100). To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
e. Record the maximum power value test plot.

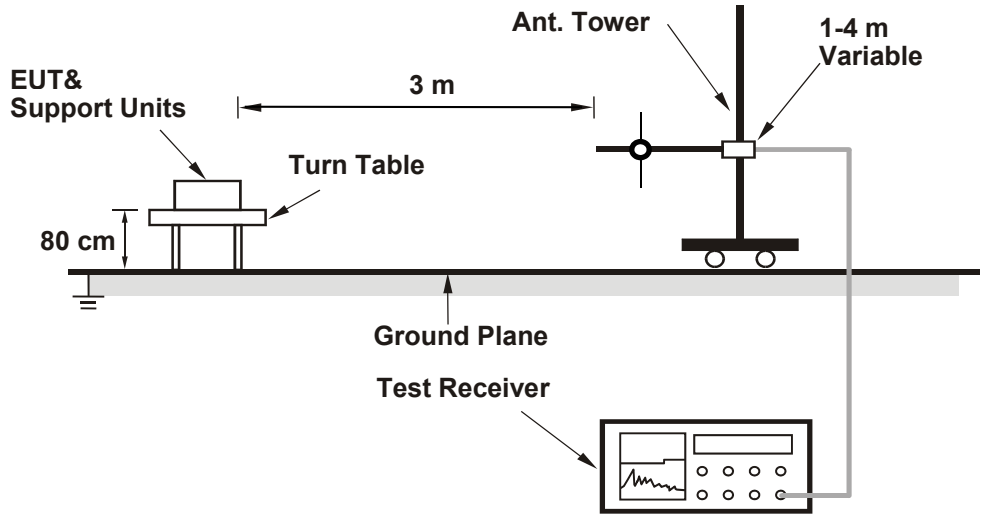
6.6 Radiated Spurious Emissions below 1GHz

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 (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

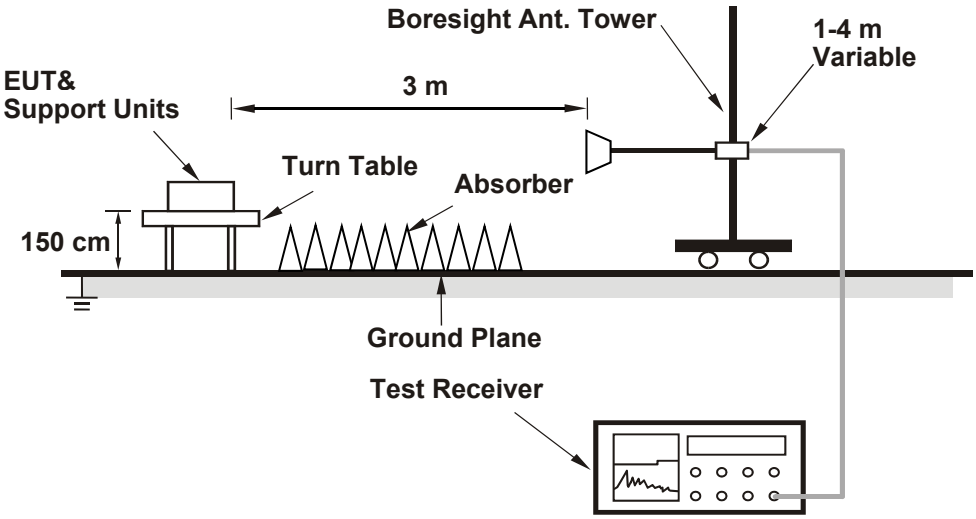
Note:

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.

a. 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.

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

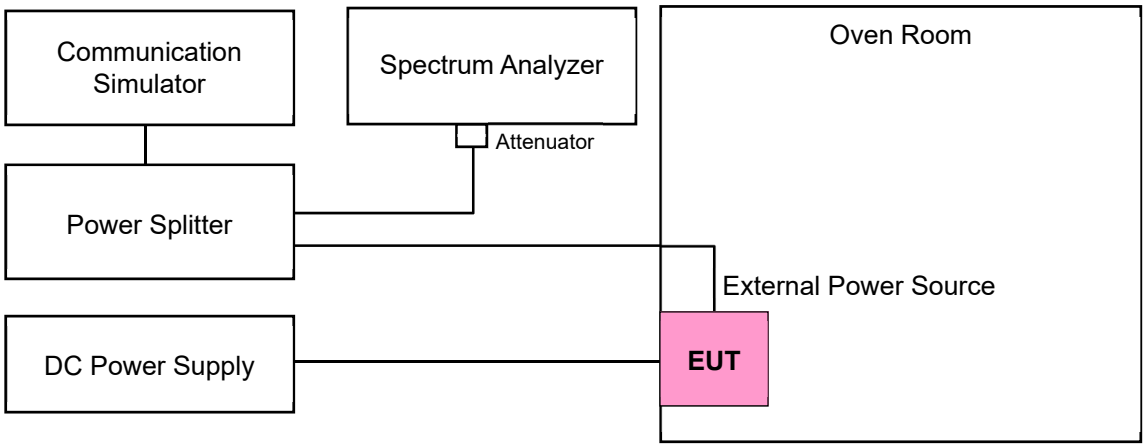
e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(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.

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. 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.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

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

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	3.8 Vdc	Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao

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	24.25	24.40	24.27
	1	2	24.38	24.41	24.33
	1	5	24.30	24.25	24.17
	3	0	24.30	24.37	24.36
	3	1	24.23	24.44	24.36
	3	3	24.33	24.29	24.24
	6	0	23.32	23.28	23.29
16QAM	1	0	23.69	23.78	23.50
	1	2	23.66	23.69	23.52
	1	5	23.51	23.55	23.55
	3	0	23.44	23.54	23.41
	3	1	23.44	23.47	23.41
	3	3	23.30	23.43	23.31
	6	0	22.23	22.32	22.28
64QAM	1	0	22.59	22.69	22.51
	1	2	22.49	22.61	22.47
	1	5	22.74	22.67	22.54
	3	0	22.45	22.46	22.42
	3	1	22.35	22.52	22.43
	3	3	22.43	22.49	22.39
	6	0	21.46	21.42	21.38
256QAM	1	0	19.43	19.49	19.35
	1	2	19.62	19.52	19.51
	1	5	19.39	19.39	19.48
	3	0	19.46	19.41	19.40
	3	1	19.49	19.44	19.33
	3	3	19.19	19.44	19.20
	6	0	19.42	19.50	19.24

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.28	24.44	26.48	27.64	33.01
16QAM	22.23	23.78	25.43	26.98	33.01
64QAM	21.38	22.74	24.58	25.94	33.01
256QAM	19.19	19.62	22.39	22.82	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	24.36	24.37	24.28
	1	7	24.47	24.39	24.31
	1	14	24.26	24.34	24.23
	8	0	23.37	23.49	23.32
	8	3	23.41	23.47	23.37
	8	7	23.40	23.41	23.39
	15	0	23.38	23.40	23.34
16QAM	1	0	23.75	23.85	23.62
	1	7	23.70	23.75	23.64
	1	14	23.68	23.75	23.65
	8	0	22.45	22.52	22.39
	8	3	22.45	22.49	22.41
	8	7	22.41	22.52	22.35
	15	0	22.45	22.44	22.32
64QAM	1	0	22.64	22.71	22.64
	1	7	22.58	22.69	22.51
	1	14	22.72	22.78	22.69
	8	0	21.48	21.53	21.44
	8	3	21.45	21.54	21.37
	8	7	21.50	21.51	21.40
	15	0	21.46	21.45	21.39
256QAM	1	0	19.42	19.56	19.41
	1	7	19.55	19.68	19.55
	1	14	19.46	19.51	19.52
	8	0	19.49	19.45	19.44
	8	3	19.51	19.56	19.38
	8	7	19.33	19.41	19.34
	15	0	19.48	19.49	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.32	24.47	26.52	27.67	33.01
16QAM	22.32	23.85	25.52	27.05	33.01
64QAM	21.37	22.78	24.57	25.98	33.01
256QAM	19.32	19.68	22.52	22.88	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	24.29	24.41	24.35
	1	12	24.39	24.41	24.36
	1	24	24.34	24.37	24.24
	12	0	23.34	23.53	23.32
	12	6	23.45	23.45	23.31
	12	13	23.40	23.48	23.37
	25	0	23.39	23.45	23.42
16QAM	1	0	23.68	23.75	23.68
	1	12	23.67	23.74	23.62
	1	24	23.66	23.74	23.63
	12	0	22.41	22.52	22.41
	12	6	22.42	22.56	22.41
	12	13	22.43	22.51	22.36
	25	0	22.44	22.50	22.33
64QAM	1	0	22.63	22.68	22.62
	1	12	22.53	22.68	22.51
	1	24	22.75	22.75	22.66
	12	0	21.51	21.60	21.43
	12	6	21.45	21.50	21.42
	12	13	21.45	21.55	21.44
	25	0	21.43	21.40	21.39
256QAM	1	0	19.38	19.47	19.37
	1	12	19.57	19.63	19.59
	1	24	19.46	19.53	19.47
	12	0	19.48	19.48	19.45
	12	6	19.46	19.58	19.38
	12	13	19.36	19.48	19.34
	25	0	19.48	19.49	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.31	24.41	26.51	27.61	33.01
16QAM	22.33	23.75	25.53	26.95	33.01
64QAM	21.39	22.75	24.59	25.95	33.01
256QAM	19.32	19.63	22.52	22.83	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	24.32	24.37	24.34
	1	24	24.47	24.41	24.35
	1	49	24.28	24.36	24.22
	25	0	23.41	23.45	23.36
	25	12	23.38	23.48	23.33
	25	25	23.41	23.47	23.39
	50	0	23.39	23.45	23.36
16QAM	1	0	23.74	23.85	23.68
	1	24	23.73	23.81	23.59
	1	49	23.69	23.71	23.59
	25	0	22.50	22.54	22.36
	25	12	22.42	22.50	22.42
	25	25	22.43	22.51	22.45
	50	0	22.44	22.49	22.30
64QAM	1	0	22.70	22.75	22.62
	1	24	22.59	22.60	22.48
	1	49	22.69	22.71	22.68
	25	0	21.51	21.56	21.41
	25	12	21.50	21.50	21.43
	25	25	21.47	21.53	21.49
	50	0	21.40	21.41	21.42
256QAM	1	0	19.37	19.54	19.38
	1	24	19.61	19.63	19.54
	1	49	19.44	19.48	19.51
	25	0	19.46	19.54	19.53
	25	12	19.48	19.57	19.41
	25	25	19.31	19.45	19.33
	50	0	19.45	19.50	19.38

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	26.53	27.67	33.01
16QAM	22.30	23.85	25.50	27.05	33.01
64QAM	21.40	22.75	24.60	25.95	33.01
256QAM	19.31	19.63	22.51	22.83	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	24.31	24.41	24.38
	1	37	24.43	24.41	24.37
	1	74	24.31	24.29	24.30
	36	0	23.35	23.49	23.30
	36	19	23.48	23.51	23.37
	36	39	23.41	23.42	23.30
	75	0	23.40	23.42	23.34
16QAM	1	0	23.70	23.85	23.67
	1	37	23.71	23.73	23.62
	1	74	23.62	23.72	23.61
	36	0	22.45	22.57	22.34
	36	19	22.46	22.48	22.37
	36	39	22.47	22.48	22.40
	75	0	22.45	22.45	22.32
64QAM	1	0	22.70	22.70	22.67
	1	37	22.52	22.60	22.46
	1	74	22.70	22.72	22.64
	36	0	21.54	21.54	21.42
	36	19	21.43	21.49	21.45
	36	39	21.45	21.51	21.42
	75	0	21.37	21.46	21.38
256QAM	1	0	19.41	19.57	19.44
	1	37	19.64	19.71	19.58
	1	74	19.51	19.45	19.51
	36	0	19.45	19.51	19.45
	36	19	19.52	19.51	19.37
	36	39	19.31	19.48	19.26
	75	0	19.46	19.44	19.28

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.30	24.43	26.50	27.63	33.01
16QAM	22.32	23.85	25.52	27.05	33.01
64QAM	21.37	22.72	24.57	25.92	33.01
256QAM	19.26	19.71	22.46	22.91	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	24.36	24.46	24.38
	1	50	24.48	24.49	24.40
	1	99	24.36	24.39	24.31
	50	0	23.44	23.53	23.38
	50	25	23.48	23.54	23.41
	50	50	23.44	23.51	23.40
	100	0	23.47	23.50	23.44
16QAM	1	0	23.77	23.85	23.70
	1	50	23.75	23.81	23.66
	1	99	23.70	23.78	23.68
	50	0	22.51	22.61	22.44
	50	25	22.52	22.57	22.45
	50	50	22.49	22.53	22.45
	100	0	22.46	22.50	22.40
64QAM	1	0	22.72	22.76	22.68
	1	50	22.60	22.70	22.54
	1	99	22.79	22.79	22.69
	50	0	21.54	21.63	21.48
	50	25	21.52	21.54	21.46
	50	50	21.52	21.55	21.49
	100	0	21.47	21.48	21.47
256QAM	1	0	19.47	19.57	19.47
	1	50	19.65	19.72	19.64
	1	99	19.54	19.55	19.53
	50	0	19.53	19.54	19.53
	50	25	19.55	19.58	19.47
	50	50	19.41	19.48	19.35
	100	0	19.48	19.51	19.38

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.38	24.49	26.58	27.69	33.01
16QAM	22.40	23.85	25.60	27.05	33.01
64QAM	21.46	22.79	24.66	25.99	33.01
256QAM	19.35	19.72	22.55	22.92	33.01

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

7.1.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19957	CH 20175	CH 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
QPSK	1	0	23.94	24.30	24.37
	1	2	24.40	24.51	24.41
	1	5	24.33	24.36	24.54
	3	0	24.26	24.38	24.27
	3	1	24.53	24.56	24.55
	3	3	24.50	24.48	24.51
	6	0	23.41	23.41	23.54
16QAM	1	0	23.49	23.65	23.79
	1	2	23.55	23.60	23.52
	1	5	23.63	23.65	23.69
	3	0	23.30	23.31	23.43
	3	1	23.27	23.51	23.58
	3	3	23.44	23.49	23.61
	6	0	22.53	22.48	22.46
64QAM	1	0	22.39	22.36	22.42
	1	2	22.66	22.70	22.73
	1	5	22.54	22.57	22.69
	3	0	22.40	22.31	22.44
	3	1	22.41	22.44	22.63
	3	3	22.40	22.35	22.53
	6	0	21.38	21.50	21.54
256QAM	1	0	19.37	19.31	19.39
	1	2	19.57	19.62	19.69
	1	5	19.59	19.48	19.51
	3	0	19.46	19.37	19.57
	3	1	19.48	19.56	19.55
	3	3	19.51	19.49	19.52
	6	0	19.27	19.33	19.53

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.41	24.56	26.72	27.87	30
16QAM	22.46	23.79	25.77	27.10	30
64QAM	21.38	22.73	24.69	26.04	30
256QAM	19.27	19.69	22.58	23.00	30

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

LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19965	CH 20175	CH 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
QPSK	1	0	24.06	24.24	24.44
	1	7	24.41	24.47	24.55
	1	14	24.39	24.49	24.50
	8	0	23.31	23.42	23.50
	8	3	23.62	23.66	23.66
	8	7	23.59	23.61	23.62
	15	0	23.46	23.54	23.51
16QAM	1	0	23.54	23.71	23.72
	1	7	23.63	23.63	23.66
	1	14	23.71	23.77	23.74
	8	0	22.43	22.48	22.51
	8	3	22.48	22.59	22.60
	8	7	22.58	22.53	22.62
	15	0	22.59	22.58	22.59
64QAM	1	0	22.54	22.48	22.58
	1	7	22.76	22.80	22.77
	1	14	22.65	22.74	22.85
	8	0	21.39	21.41	21.47
	8	3	21.55	21.60	21.59
	8	7	21.45	21.52	21.56
	15	0	21.53	21.52	21.67
256QAM	1	0	19.38	19.39	19.55
	1	7	19.66	19.80	19.78
	1	14	19.64	19.67	19.71
	8	0	19.44	19.48	19.58
	8	3	19.49	19.60	19.59
	8	7	19.55	19.58	19.60
	15	0	19.46	19.49	19.60

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.31	24.55	26.62	27.86	30
16QAM	22.43	23.77	25.74	27.08	30
64QAM	21.39	22.85	24.70	26.16	30
256QAM	19.38	19.80	22.69	23.11	30

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

LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19975	CH 20175	CH 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
QPSK	1	0	24.01	24.30	24.44
	1	12	24.43	24.47	24.51
	1	24	24.46	24.47	24.52
	12	0	23.35	23.39	23.40
	12	6	23.60	23.66	23.67
	12	13	23.56	23.61	23.57
	25	0	23.47	23.60	23.59
16QAM	1	0	23.60	23.64	23.80
	1	12	23.64	23.63	23.66
	1	24	23.72	23.72	23.73
	12	0	22.38	22.52	22.52
	12	6	22.49	22.49	22.58
	12	13	22.52	22.60	22.61
	25	0	22.51	22.54	22.63
64QAM	1	0	22.48	22.48	22.56
	1	12	22.84	22.77	22.79
	1	24	22.72	22.74	22.76
	12	0	21.47	21.41	21.56
	12	6	21.57	21.60	21.56
	12	13	21.48	21.49	21.60
	25	0	21.54	21.55	21.65
256QAM	1	0	19.41	19.46	19.54
	1	12	19.73	19.73	19.81
	1	24	19.57	19.66	19.73
	12	0	19.46	19.49	19.54
	12	6	19.51	19.59	19.56
	12	13	19.52	19.60	19.63
	25	0	19.42	19.50	19.59

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.35	24.52	26.66	27.83	30
16QAM	22.38	23.80	25.69	27.11	30
64QAM	21.41	22.84	24.72	26.15	30
256QAM	19.41	19.81	22.72	23.12	30

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

LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20000	CH 20175	CH 20350
			1715 MHz	1732.5 MHz	1750 MHz
QPSK	1	0	24.09	24.30	24.37
	1	24	24.41	24.44	24.46
	1	49	24.40	24.46	24.55
	25	0	23.38	23.37	23.42
	25	12	23.58	23.62	23.67
	25	25	23.52	23.56	23.66
	50	0	23.43	23.57	23.57
16QAM	1	0	23.52	23.66	23.76
	1	24	23.70	23.70	23.67
	1	49	23.69	23.71	23.76
	25	0	22.36	22.44	22.45
	25	12	22.44	22.54	22.65
	25	25	22.52	22.60	22.66
	50	0	22.54	22.58	22.60
64QAM	1	0	22.48	22.53	22.62
	1	24	22.75	22.82	22.79
	1	49	22.64	22.70	22.85
	25	0	21.42	21.48	21.54
	25	12	21.58	21.53	21.56
	25	25	21.42	21.54	21.58
	50	0	21.56	21.60	21.65
256QAM	1	0	19.32	19.47	19.54
	1	24	19.71	19.77	19.72
	1	49	19.67	19.61	19.69
	25	0	19.46	19.46	19.51
	25	12	19.46	19.54	19.65
	25	25	19.54	19.52	19.59
	50	0	19.39	19.49	19.59

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.37	24.55	26.68	27.86	30
16QAM	22.36	23.76	25.67	27.07	30
64QAM	21.42	22.85	24.73	26.16	30
256QAM	19.32	19.77	22.63	23.08	30

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

LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20025	CH 20175	CH 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
QPSK	1	0	24.05	24.25	24.35
	1	37	24.45	24.51	24.47
	1	74	24.47	24.45	24.51
	36	0	23.37	23.36	23.47
	36	19	23.60	23.60	23.60
	36	39	23.57	23.56	23.58
	75	0	23.42	23.53	23.58
16QAM	1	0	23.57	23.64	23.73
	1	37	23.61	23.66	23.68
	1	74	23.67	23.80	23.72
	36	0	22.37	22.52	22.52
	36	19	22.44	22.53	22.61
	36	39	22.54	22.57	22.64
	75	0	22.53	22.56	22.61
64QAM	1	0	22.51	22.49	22.56
	1	37	22.84	22.78	22.82
	1	74	22.64	22.72	22.82
	36	0	21.46	21.40	21.50
	36	19	21.52	21.61	21.61
	36	39	21.50	21.53	21.64
	75	0	21.51	21.51	21.60
256QAM	1	0	19.32	19.43	19.55
	1	37	19.70	19.73	19.76
	1	74	19.57	19.59	19.67
	36	0	19.45	19.44	19.48
	36	19	19.52	19.58	19.60
	36	39	19.57	19.52	19.58
	75	0	19.44	19.47	19.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.36	24.51	26.67	27.82	30
16QAM	22.37	23.80	25.68	27.11	30
64QAM	21.40	22.84	24.71	26.15	30
256QAM	19.32	19.76	22.63	23.07	30

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

LTE Band 4, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20050	CH 20175	CH 20300
			1720 MHz	1732.5 MHz	1745 MHz
QPSK	1	0	24.10	24.32	24.44
	1	50	24.51	24.52	24.56
	1	99	24.47	24.52	24.55
	50	0	23.38	23.45	23.50
	50	25	23.67	23.69	23.70
	50	50	23.60	23.64	23.67
	100	0	23.52	23.61	23.61
16QAM	1	0	23.61	23.71	23.81
	1	50	23.71	23.71	23.72
	1	99	23.72	23.80	23.81
	50	0	22.44	22.53	22.55
	50	25	22.51	22.59	22.66
	50	50	22.59	22.63	22.68
	100	0	22.59	22.59	22.64
64QAM	1	0	22.54	22.56	22.62
	1	50	22.84	22.85	22.85
	1	99	22.74	22.80	22.85
	50	0	21.48	21.48	21.57
	50	25	21.59	21.62	21.64
	50	50	21.50	21.54	21.64
	100	0	21.59	21.61	21.67
256QAM	1	0	19.41	19.47	19.55
	1	50	19.73	19.82	19.82
	1	99	19.67	19.67	19.75
	50	0	19.47	19.49	19.58
	50	25	19.56	19.61	19.65
	50	50	19.61	19.62	19.66
	100	0	19.49	19.54	19.61

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.38	24.56	26.69	27.87	30
16QAM	22.44	23.81	25.75	27.12	30
64QAM	21.48	22.85	24.79	26.16	30
256QAM	19.41	19.82	22.72	23.13	30

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

7.1.3 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	24.19	24.36	24.06
	1	2	24.31	24.25	24.22
	1	5	24.22	24.24	24.05
	3	0	24.29	24.26	24.21
	3	1	24.22	24.17	24.17
	3	3	24.25	24.26	24.19
	6	0	23.27	23.25	23.33
16QAM	1	0	23.45	23.53	23.49
	1	2	23.60	23.76	23.72
	1	5	23.44	23.42	23.37
	3	0	23.32	23.32	23.22
	3	1	23.36	23.52	23.22
	3	3	23.18	23.20	23.25
	6	0	22.35	22.44	22.21
64QAM	1	0	22.39	22.29	22.37
	1	2	22.14	22.23	22.17
	1	5	22.53	22.55	22.39
	3	0	22.30	22.27	22.24
	3	1	22.21	22.41	22.15
	3	3	22.39	22.41	22.30
	6	0	21.39	21.32	21.38
256QAM	1	0	19.41	19.31	19.29
	1	2	19.32	19.30	19.26
	1	5	19.34	19.24	19.19
	3	0	19.26	19.36	19.17
	3	1	19.41	19.37	19.29
	3	3	19.35	19.34	19.30
	6	0	19.34	19.31	19.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.36	22.35	23.46	38.45
16QAM	22.21	23.76	21.31	22.86	38.45
64QAM	21.32	22.55	20.42	21.65	38.45
256QAM	19.14	19.41	18.24	18.51	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	24.34	24.40	24.17
	1	7	24.33	24.46	24.31
	1	14	24.20	24.28	24.06
	8	0	23.34	23.48	23.24
	8	3	23.34	23.36	23.25
	8	7	23.34	23.33	23.24
	15	0	23.34	23.37	23.38
16QAM	1	0	23.53	23.62	23.59
	1	7	23.70	23.70	23.77
	1	14	23.47	23.59	23.46
	8	0	22.38	22.43	22.38
	8	3	22.41	22.47	22.36
	8	7	22.21	22.29	22.21
	15	0	22.43	22.49	22.37
64QAM	1	0	22.40	22.51	22.38
	1	7	22.28	22.31	22.22
	1	14	22.62	22.55	22.57
	8	0	21.42	21.46	21.34
	8	3	21.39	21.51	21.26
	8	7	21.37	21.49	21.32
	15	0	21.47	21.46	21.38
256QAM	1	0	19.36	19.47	19.38
	1	7	19.44	19.41	19.38
	1	14	19.34	19.36	19.32
	8	0	19.37	19.32	19.31
	8	3	19.48	19.43	19.44
	8	7	19.37	19.29	19.28
	15	0	19.36	19.45	19.25

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.24	24.46	22.34	23.56	38.45
16QAM	22.21	23.77	21.31	22.87	38.45
64QAM	21.26	22.62	20.36	21.72	38.45
256QAM	19.25	19.48	18.35	18.58	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	24.35	24.39	24.09
	1	12	24.39	24.44	24.31
	1	24	24.18	24.26	24.06
	12	0	23.37	23.45	23.26
	12	6	23.26	23.31	23.26
	12	13	23.35	23.34	23.21
	25	0	23.31	23.33	23.39
16QAM	1	0	23.51	23.59	23.58
	1	12	23.79	23.72	23.78
	1	24	23.46	23.61	23.49
	12	0	22.44	22.46	22.38
	12	6	22.46	22.47	22.38
	12	13	22.28	22.35	22.22
	25	0	22.34	22.48	22.38
64QAM	1	0	22.44	22.53	22.37
	1	12	22.27	22.31	22.23
	1	24	22.55	22.62	22.49
	12	0	21.37	21.43	21.38
	12	6	21.36	21.50	21.26
	12	13	21.37	21.48	21.34
	25	0	21.42	21.46	21.37
256QAM	1	0	19.41	19.46	19.31
	1	12	19.35	19.43	19.37
	1	24	19.33	19.33	19.32
	12	0	19.33	19.31	19.25
	12	6	19.38	19.42	19.45
	12	13	19.29	19.29	19.38
	25	0	19.35	19.38	19.23

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.44	22.31	23.54	38.45
16QAM	22.22	23.79	21.32	22.89	38.45
64QAM	21.26	22.62	20.36	21.72	38.45
256QAM	19.23	19.46	18.33	18.56	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	24.38	24.45	24.19
	1	24	24.41	24.47	24.39
	1	49	24.23	24.31	24.13
	25	0	23.40	23.50	23.34
	25	12	23.35	23.41	23.32
	25	25	23.37	23.37	23.29
	50	0	23.41	23.42	23.39
16QAM	1	0	23.59	23.66	23.59
	1	24	23.79	23.79	23.78
	1	49	23.52	23.62	23.50
	25	0	22.46	22.48	22.44
	25	12	22.47	22.56	22.39
	25	25	22.29	22.39	22.29
	50	0	22.44	22.49	22.41
64QAM	1	0	22.46	22.53	22.44
	1	24	22.31	22.36	22.23
	1	49	22.62	22.65	22.57
	25	0	21.46	21.49	21.38
	25	12	21.43	21.52	21.35
	25	25	21.45	21.51	21.40
	50	0	21.47	21.47	21.42
256QAM	1	0	19.45	19.54	19.40
	1	24	19.45	19.48	19.39
	1	49	19.39	19.42	19.37
	25	0	19.38	19.41	19.32
	25	12	19.48	19.50	19.46
	25	25	19.39	19.39	19.38
	50	0	19.37	19.47	19.27

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.29	24.47	22.39	23.57	38.45
16QAM	22.29	23.79	21.39	22.89	38.45
64QAM	21.35	22.65	20.45	21.75	38.45
256QAM	19.27	19.54	18.37	18.64	38.45

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

7.1.4 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	23.70	23.82	23.96
	1	12	24.02	24.05	24.05
	1	24	23.81	23.89	23.95
	12	0	22.88	22.99	23.08
	12	6	23.05	23.11	23.11
	12	13	23.14	23.14	23.15
	25	0	23.13	23.14	23.16
16QAM	1	0	23.16	23.26	23.27
	1	12	23.16	23.31	23.26
	1	24	23.07	23.19	23.29
	12	0	22.01	22.07	22.07
	12	6	22.16	22.24	22.28
	12	13	22.17	22.21	22.28
	25	0	22.14	22.18	22.20
64QAM	1	0	22.28	22.31	22.34
	1	12	22.52	22.57	22.57
	1	24	22.13	22.21	22.32
	12	0	21.05	21.05	21.06
	12	6	21.41	21.49	21.54
	12	13	21.18	21.19	21.22
	25	0	20.99	20.99	21.12
256QAM	1	0	19.20	19.22	19.23
	1	12	19.09	19.24	19.21
	1	24	19.02	19.13	19.26
	12	0	18.93	19.01	19.04
	12	6	19.16	19.19	19.26
	12	13	19.20	19.25	19.23
	25	0	19.04	19.11	19.17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.88	24.05	25.76	26.93	33.01
16QAM	22.01	23.31	24.89	26.19	33.01
64QAM	20.99	22.57	23.87	25.45	33.01
256QAM	18.93	19.26	21.81	22.14	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	23.42	23.78	23.97
	1	24	23.98	23.97	24.11
	1	49	23.80	23.83	23.89
	25	0	22.86	22.96	23.03
	25	12	23.10	23.09	23.07
	25	25	23.06	23.15	23.16
	50	0	23.12	23.08	23.16
16QAM	1	0	23.26	23.24	23.30
	1	24	23.17	23.26	23.26
	1	49	23.17	23.23	23.33
	25	0	22.02	22.08	22.16
	25	12	22.20	22.23	22.31
	25	25	22.17	22.26	22.26
	50	0	22.23	22.27	22.30
64QAM	1	0	22.33	22.29	22.34
	1	24	22.50	22.55	22.51
	1	49	22.18	22.21	22.27
	25	0	21.09	21.01	21.08
	25	12	21.42	21.48	21.50
	25	25	21.22	21.22	21.21
	50	0	20.93	20.99	21.15
256QAM	1	0	19.15	19.22	19.27
	1	24	19.09	19.24	19.31
	1	49	19.01	19.08	19.16
	25	0	18.98	19.03	19.10
	25	12	19.10	19.11	19.29
	25	25	19.16	19.28	19.29
	50	0	18.99	19.14	19.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.86	24.11	25.74	26.99	33.01
16QAM	22.02	23.33	24.90	26.21	33.01
64QAM	20.93	22.64	23.81	25.52	33.01
256QAM	18.98	19.31	21.86	22.19	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	23.62	23.87	24.01
	1	37	24.01	23.99	24.11
	1	74	23.73	23.79	23.95
	36	0	22.86	22.98	23.06
	36	19	23.12	23.11	23.10
	36	39	23.13	23.18	23.12
	75	0	23.05	23.14	23.21
16QAM	1	0	23.24	23.26	23.26
	1	37	23.20	23.23	23.28
	1	74	23.07	23.25	23.30
	36	0	22.00	22.05	22.14
	36	19	22.22	22.26	22.31
	36	39	22.23	22.24	22.20
	75	0	22.19	22.17	22.27
64QAM	1	0	22.34	22.32	22.40
	1	37	22.51	22.59	22.57
	1	74	22.20	22.21	22.29
	36	0	21.03	21.05	21.11
	36	19	21.41	21.45	21.54
	36	39	21.16	21.18	21.25
	75	0	20.95	21.02	21.16
256QAM	1	0	19.12	19.18	19.24
	1	37	19.12	19.22	19.29
	1	74	19.11	19.15	19.23
	36	0	18.97	18.94	19.01
	36	19	19.18	19.11	19.28
	36	39	19.17	19.23	19.30
	75	0	19.02	19.09	19.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.86	24.11	25.74	26.99	33.01
16QAM	22.00	23.30	24.88	26.18	33.01
64QAM	20.95	22.60	23.83	25.48	33.01
256QAM	18.94	19.30	21.82	22.18	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	23.47	23.87	24.01
	1	50	24.04	24.06	24.12
	1	99	23.82	23.89	23.97
	50	0	22.96	23.06	23.11
	50	25	23.15	23.16	23.17
	50	50	23.14	23.22	23.22
	100	0	23.13	23.17	23.21
16QAM	1	0	23.26	23.26	23.32
	1	50	23.24	23.31	23.34
	1	99	23.17	23.25	23.34
	50	0	22.09	22.10	22.16
	50	25	22.25	22.32	22.32
	50	50	22.24	22.26	22.29
	100	0	22.24	22.27	22.30
64QAM	1	0	22.36	22.37	22.41
	1	50	22.31	22.31	22.37
	1	99	22.20	22.22	22.32
	50	0	21.09	21.09	21.16
	50	25	21.45	21.51	21.57
	50	50	21.22	21.22	21.31
	100	0	21.03	21.08	21.18
256QAM	1	0	19.20	19.28	19.32
	1	50	19.19	19.28	19.31
	1	99	19.11	19.17	19.26
	50	0	19.03	19.03	19.11
	50	25	19.20	19.21	19.31
	50	50	19.24	19.29	19.30
	100	0	19.05	19.14	19.22

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.96	24.12	25.84	27.00	33.01
16QAM	22.09	23.34	24.97	26.22	33.01
64QAM	21.03	22.67	23.91	25.55	33.01
256QAM	19.03	19.32	21.91	22.20	33.01

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

7.1.5 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	24.14	24.27	24.03
	1	2	24.19	24.29	24.06
	1	5	24.21	24.23	24.05
	3	0	24.19	24.25	24.01
	3	1	24.23	24.33	24.04
	3	3	24.14	24.25	24.08
	6	0	23.22	23.25	23.09
16QAM	1	0	23.17	23.21	23.03
	1	2	23.20	23.30	23.04
	1	5	23.16	23.24	23.00
	3	0	23.45	23.18	23.25
	3	1	23.70	23.28	23.33
	3	3	23.50	23.44	23.30
	6	0	22.21	22.26	22.07
64QAM	1	0	22.17	22.28	22.09
	1	2	22.17	22.28	22.03
	1	5	22.21	22.31	22.06
	3	0	22.70	22.55	22.91
	3	1	22.67	22.49	22.96
	3	3	22.50	22.46	23.17
	6	0	21.16	21.25	21.08
256QAM	1	0	19.16	19.30	19.09
	1	2	19.17	19.23	19.08
	1	5	19.14	19.30	19.08
	3	0	19.18	19.26	19.06
	3	1	19.20	19.31	19.02
	3	3	19.15	19.30	19.02
	6	0	19.19	19.22	19.00

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.09	24.33	21.72	22.96	44.77
16QAM	22.07	23.70	20.70	22.33	44.77
64QAM	21.08	22.96	19.71	21.59	44.77
256QAM	19.00	19.31	17.63	17.94	44.77

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	24.16	24.27	24.10
	1	7	24.22	24.27	24.00
	1	14	24.16	24.23	24.05
	8	0	23.11	23.22	23.05
	8	3	23.14	23.20	22.96
	8	7	23.08	23.19	23.03
	15	0	23.13	23.24	23.07
16QAM	1	0	23.21	23.23	23.04
	1	7	23.20	23.21	23.10
	1	14	23.23	23.22	23.06
	8	0	22.21	22.21	22.04
	8	3	22.16	22.22	22.02
	8	7	22.19	22.24	22.04
	15	0	22.19	22.31	22.04
64QAM	1	0	22.23	22.23	22.06
	1	7	22.19	22.27	22.05
	1	14	22.22	22.30	22.03
	8	0	21.19	21.27	21.06
	8	3	21.15	21.25	21.09
	8	7	21.21	21.21	21.03
	15	0	21.14	21.22	21.04
256QAM	1	0	19.22	19.24	19.07
	1	7	19.16	19.22	19.06
	1	14	19.17	19.25	19.04
	8	0	19.23	19.24	19.10
	8	3	19.21	19.30	19.08
	8	7	19.17	19.24	19.07
	15	0	19.17	19.27	19.10

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.96	24.27	21.59	22.90	44.77
16QAM	22.02	23.23	20.65	21.86	44.77
64QAM	21.03	22.30	19.66	20.93	44.77
256QAM	19.04	19.30	17.67	17.93	44.77

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	24.20	24.31	24.09
	1	12	24.19	24.30	24.02
	1	24	24.15	24.30	24.02
	12	0	23.15	23.26	23.04
	12	6	23.11	23.24	23.02
	12	13	23.12	23.18	23.01
	25	0	23.17	23.28	23.06
16QAM	1	0	23.16	23.22	23.05
	1	12	23.19	23.25	23.07
	1	24	23.18	23.25	23.06
	12	0	22.21	22.27	22.00
	12	6	22.14	22.27	22.03
	12	13	22.14	22.24	22.02
	25	0	22.20	22.25	22.04
64QAM	1	0	22.18	22.30	22.01
	1	12	22.15	22.21	22.09
	1	24	22.15	22.30	22.04
	12	0	21.14	21.24	21.03
	12	6	21.20	21.26	21.01
	12	13	21.15	21.22	21.06
	25	0	21.23	21.24	21.05
256QAM	1	0	19.20	19.30	19.00
	1	12	19.14	19.23	19.09
	1	24	19.16	19.28	19.06
	12	0	19.22	19.28	19.10
	12	6	19.20	19.22	19.03
	12	13	19.18	19.21	19.04
	25	0	19.15	19.29	19.05

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.01	24.31	21.64	22.94	44.77
16QAM	22.00	23.25	20.63	21.88	44.77
64QAM	21.01	22.30	19.64	20.93	44.77
256QAM	19.00	19.30	17.63	17.93	44.77

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	24.28	24.36	24.15
	1	24	24.18	24.30	24.08
	1	49	24.17	24.21	24.00
	25	0	23.23	23.31	23.10
	25	12	23.12	23.22	22.98
	25	25	23.09	23.17	23.01
	50	0	23.25	23.33	23.12
16QAM	1	0	23.22	23.24	23.04
	1	24	23.22	23.25	23.10
	1	49	23.14	23.28	23.05
	25	0	22.21	22.26	22.00
	25	12	22.18	22.30	22.06
	25	25	22.15	22.25	22.04
	50	0	22.20	22.21	22.00
64QAM	1	0	22.21	22.30	22.08
	1	24	22.16	22.24	22.08
	1	49	22.23	22.28	22.04
	25	0	21.19	21.27	21.02
	25	12	21.16	21.28	21.03
	25	25	21.17	21.21	21.08
	50	0	21.19	21.26	21.01
256QAM	1	0	19.23	19.30	19.06
	1	24	19.15	19.24	19.05
	1	49	19.16	19.28	19.02
	25	0	19.15	19.26	19.06
	25	12	19.20	19.21	19.00
	25	25	19.15	19.26	19.10
	50	0	19.20	19.28	19.06

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.98	24.36	21.61	22.99	44.77
16QAM	22.00	23.28	20.63	21.91	44.77
64QAM	21.01	22.30	19.64	20.93	44.77
256QAM	19.00	19.30	17.63	17.93	44.77

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

7.1.6 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	24.40	24.39	24.37
	1	12	24.67	24.66	24.64
	1	24	24.82	24.79	24.80
	12	0	23.76	23.81	23.77
	12	6	23.73	23.66	23.74
	12	13	23.74	23.76	23.70
	25	0	23.61	23.64	23.61
16QAM	1	0	23.37	23.45	23.40
	1	12	23.78	23.85	23.84
	1	24	23.82	23.83	23.83
	12	0	22.76	22.84	22.83
	12	6	22.75	22.75	22.71
	12	13	22.68	22.69	22.73
	25	0	22.75	22.70	22.69
64QAM	1	0	22.73	22.67	22.67
	1	12	22.83	22.77	22.77
	1	24	22.95	22.89	22.95
	12	0	21.62	21.69	21.71
	12	6	21.63	21.56	21.65
	12	13	21.68	21.69	21.75
	25	0	21.96	21.95	21.96
256QAM	1	0	19.57	19.62	19.60
	1	12	19.70	19.73	19.75
	1	24	20.02	19.96	20.02
	12	0	19.66	19.66	19.69
	12	6	19.72	19.77	19.80
	12	13	19.72	19.81	19.75
	25	0	19.77	19.75	19.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.61	24.82	22.37	23.58	44.77
16QAM	22.68	23.85	21.44	22.61	44.77
64QAM	21.56	22.95	20.32	21.71	44.77
256QAM	19.57	20.02	18.33	18.78	44.77

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	24.43
	1	24	24.71
	1	49	24.88
	25	0	23.82
	25	12	23.74
	25	25	23.79
	50	0	23.65
16QAM	1	0	23.45
	1	24	23.88
	1	49	23.92
	25	0	22.85
	25	12	22.75
	25	25	22.77
	50	0	22.75
64QAM	1	0	22.73
	1	24	22.87
	1	49	22.98
	25	0	21.71
	25	12	21.66
	25	25	21.78
	50	0	22.03
256QAM	1	0	19.62
	1	24	19.76
	1	49	20.02
	25	0	19.76
	25	12	19.80
	25	25	19.82
	50	0	19.77

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.65	24.88	22.41	23.64	44.77
16QAM	22.75	23.92	21.51	22.68	44.77
64QAM	21.66	22.98	20.42	21.74	44.77
256QAM	19.62	20.02	18.38	18.78	44.77

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

7.1.7 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	24.42	24.42	24.43
	1	12	24.68	24.65	24.67
	1	24	24.63	24.59	24.61
	12	0	23.65	23.66	23.67
	12	6	23.72	23.65	23.70
	12	13	23.74	23.82	23.74
	25	0	23.66	23.67	23.67
16QAM	1	0	23.78	23.78	23.74
	1	12	23.75	23.83	23.84
	1	24	23.77	23.74	23.74
	12	0	22.74	22.75	22.66
	12	6	22.67	22.66	22.69
	12	13	22.84	22.82	22.80
	25	0	22.64	22.70	22.68
64QAM	1	0	22.77	22.75	22.78
	1	12	22.86	22.87	22.83
	1	24	22.95	22.93	22.81
	12	0	21.67	21.69	21.66
	12	6	21.73	21.66	21.66
	12	13	21.90	21.86	21.81
	25	0	21.66	21.71	21.66
256QAM	1	0	19.67	19.71	19.69
	1	12	19.94	19.95	19.89
	1	24	19.81	19.81	19.77
	12	0	19.59	19.59	19.52
	12	6	19.73	19.73	19.78
	12	13	19.75	19.75	19.71
	25	0	19.66	19.76	19.71

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.65	24.68	22.41	23.44	44.77
16QAM	22.64	24.14	21.40	22.90	44.77
64QAM	21.66	22.95	20.42	21.71	44.77
256QAM	19.52	19.95	18.28	18.71	44.77

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	24.46
	1	24	24.72
	1	49	24.65
	25	0	23.72
	25	12	23.75
	25	25	23.82
	50	0	23.70
16QAM	1	0	23.83
	1	24	23.77
	1	49	23.84
	25	0	22.76
	25	12	22.76
	25	25	22.84
	50	0	22.70
64QAM	1	0	22.82
	1	24	22.93
	1	49	22.85
	25	0	21.71
	25	12	21.74
	25	25	21.91
	50	0	21.74
256QAM	1	0	19.73
	1	24	19.96
	1	49	19.83
	25	0	19.62
	25	12	19.79
	25	25	19.78
	50	0	19.76

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	24.72	22.46	23.48	24.72	44.77
16QAM	23.84	21.46	22.60	23.84	44.77
64QAM	22.93	20.47	21.56	22.93	44.77
256QAM	19.96	18.38	18.72	19.96	44.77

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

7.1.8 LTE Band 17

LTE Band 17, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23755	CH 23790	CH 23825
			706.5 MHz	710 MHz	713.5 MHz
QPSK	1	0	23.98	24.02	23.92
	1	12	24.10	24.12	23.92
	1	24	24.24	24.36	24.22
	12	0	22.92	23.06	22.94
	12	6	23.21	23.23	23.20
	12	13	23.32	23.39	23.19
	25	0	23.15	23.16	23.13
16QAM	1	0	23.27	23.35	23.25
	1	12	23.41	23.42	23.33
	1	24	23.75	23.67	23.66
	12	0	22.02	22.18	21.92
	12	6	22.23	22.24	22.12
	12	13	22.38	22.45	22.36
	25	0	22.27	22.27	22.28
64QAM	1	0	21.95	22.11	21.97
	1	12	22.35	22.38	22.18
	1	24	22.80	22.89	22.79
	12	0	20.96	21.10	20.98
	12	6	21.24	21.26	21.26
	12	13	21.27	21.45	21.23
	25	0	21.32	21.39	21.29
256QAM	1	0	19.08	19.08	19.08
	1	12	19.13	19.21	19.13
	1	24	19.64	19.65	19.61
	12	0	19.11	19.05	19.02
	12	6	19.28	19.35	19.22
	12	13	19.30	19.36	19.29
	25	0	19.14	19.23	19.17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.92	24.36	21.59	23.03	44.77
16QAM	21.92	23.75	20.59	22.42	44.77
64QAM	20.96	22.89	19.63	21.56	44.77
256QAM	19.02	19.65	17.69	18.32	44.77

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

LTE Band 17, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23780	CH 23790	CH 23800
			709 MHz	710 MHz	711 MHz
QPSK	1	0	24.05	24.10	24.01
	1	24	24.11	24.20	24.01
	1	49	24.27	24.37	24.22
	25	0	23.01	23.09	22.95
	25	12	23.28	23.32	23.27
	25	25	23.33	23.39	23.26
	50	0	23.20	23.25	23.17
16QAM	1	0	23.32	23.41	23.30
	1	24	23.43	23.49	23.33
	1	49	23.76	23.77	23.76
	25	0	22.11	22.18	22.01
	25	12	22.26	22.31	22.18
	25	25	22.39	22.49	22.36
	50	0	22.35	22.35	22.33
64QAM	1	0	22.05	22.12	22.01
	1	24	22.38	22.43	22.28
	1	49	22.88	22.89	22.79
	25	0	21.02	21.12	20.99
	25	12	21.29	21.34	21.27
	25	25	21.36	21.46	21.32
	50	0	21.41	21.43	21.35
256QAM	1	0	19.08	19.08	19.08
	1	24	19.20	19.26	19.13
	1	49	19.65	19.67	19.65
	25	0	19.12	19.13	19.04
	25	12	19.30	19.35	19.23
	25	25	19.32	19.42	19.31
	50	0	19.24	19.32	19.19

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.95	24.37	21.62	23.04	44.77
16QAM	22.01	23.77	20.68	22.44	44.77
64QAM	20.99	22.89	19.66	21.56	44.77
256QAM	19.04	19.67	17.71	18.34	44.77

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

7.1.9 LTE Band 25

LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26047	CH 26365	CH 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
QPSK	1	0	24.13	24.28	24.13
	1	2	24.17	24.36	24.10
	1	5	24.06	24.10	24.07
	3	0	24.20	24.38	24.20
	3	1	24.28	24.36	24.24
	3	3	24.38	24.34	24.34
	6	0	23.23	23.18	23.06
16QAM	1	0	23.28	23.25	23.15
	1	2	23.43	23.73	23.59
	1	5	23.76	23.65	23.66
	3	0	23.31	23.38	23.22
	3	1	23.37	23.38	23.21
	3	3	23.26	23.30	23.19
	6	0	22.21	22.29	22.35
64QAM	1	0	22.45	22.50	22.31
	1	2	22.37	22.42	22.42
	1	5	22.37	22.44	22.28
	3	0	22.35	22.42	22.44
	3	1	22.15	22.20	22.10
	3	3	22.25	22.33	22.22
	6	0	21.20	21.26	21.30
256QAM	1	0	19.07	19.24	19.09
	1	2	19.44	19.51	19.36
	1	5	19.26	19.21	19.18
	3	0	19.23	19.40	19.20
	3	1	19.33	19.27	19.26
	3	3	19.20	19.24	19.24
	6	0	19.19	19.29	19.24

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.06	24.38	26.26	27.58	33.01
16QAM	22.21	23.76	25.41	26.96	33.01
64QAM	21.20	22.50	24.40	25.70	33.01
256QAM	19.07	19.51	22.27	22.71	33.01

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

LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26055	CH 26365	CH 26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz
QPSK	1	0	24.18	24.36	24.19
	1	7	24.28	24.33	24.17
	1	14	24.24	24.23	24.20
	8	0	23.29	23.48	23.33
	8	3	23.34	23.38	23.35
	8	7	23.35	23.36	23.32
	15	0	23.24	23.27	23.18
16QAM	1	0	23.31	23.45	23.20
	1	7	23.59	23.74	23.57
	1	14	23.82	23.77	23.75
	8	0	22.37	22.49	22.29
	8	3	22.44	22.39	22.35
	8	7	22.27	22.44	22.28
	15	0	22.44	22.37	22.37
64QAM	1	0	22.52	22.49	22.47
	1	7	22.54	22.58	22.43
	1	14	22.48	22.53	22.40
	8	0	21.47	21.47	21.42
	8	3	21.27	21.37	21.24
	8	7	21.35	21.38	21.28
	15	0	21.41	21.45	21.37
256QAM	1	0	19.19	19.33	19.27
	1	7	19.58	19.61	19.43
	1	14	19.24	19.37	19.22
	8	0	19.32	19.34	19.24
	8	3	19.32	19.40	19.39
	8	7	19.34	19.42	19.29
	15	0	19.35	19.36	19.29

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.18	24.36	26.38	27.56	33.01
16QAM	22.27	23.82	25.47	27.02	33.01
64QAM	21.24	22.58	24.44	25.78	33.01
256QAM	19.19	19.61	22.39	22.81	33.01

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

LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26065	CH 26365	CH 26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz
QPSK	1	0	24.21	24.37	24.19
	1	12	24.26	24.38	24.16
	1	24	24.26	24.22	24.19
	12	0	23.32	23.44	23.35
	12	6	23.43	23.44	23.41
	12	13	23.39	23.43	23.40
	25	0	23.23	23.37	23.24
16QAM	1	0	23.35	23.39	23.23
	1	12	23.58	23.67	23.57
	1	24	23.77	23.80	23.73
	12	0	22.44	22.41	22.33
	12	6	22.42	22.47	22.35
	12	13	22.31	22.37	22.37
	25	0	22.43	22.42	22.38
64QAM	1	0	22.47	22.56	22.42
	1	12	22.53	22.55	22.47
	1	24	22.46	22.49	22.41
	12	0	21.45	21.46	21.46
	12	6	21.25	21.41	21.22
	12	13	21.29	21.37	21.20
	25	0	21.38	21.42	21.35
256QAM	1	0	19.29	19.37	19.26
	1	12	19.54	19.56	19.44
	1	24	19.21	19.37	19.24
	12	0	19.40	19.42	19.24
	12	6	19.33	19.35	19.31
	12	13	19.32	19.35	19.26
	25	0	19.35	19.32	19.28

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.23	24.38	26.43	27.58	33.01
16QAM	22.31	23.80	25.51	27.00	33.01
64QAM	21.20	22.56	24.40	25.76	33.01
256QAM	19.21	19.56	22.41	22.76	33.01

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

LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26090	CH 26365	CH 26640
			1855 MHz	1882.5 MHz	1910 MHz
QPSK	1	0	24.14	24.39	24.19
	1	24	24.23	24.39	24.18
	1	49	24.27	24.29	24.21
	25	0	23.37	23.40	23.31
	25	12	23.36	23.37	23.38
	25	25	23.42	23.42	23.35
	50	0	23.24	23.28	23.15
16QAM	1	0	23.37	23.44	23.30
	1	24	23.55	23.72	23.59
	1	49	23.82	23.76	23.73
	25	0	22.38	22.42	22.38
	25	12	22.39	22.45	22.34
	25	25	22.31	22.38	22.27
	50	0	22.39	22.37	22.35
64QAM	1	0	22.45	22.49	22.39
	1	24	22.45	22.57	22.39
	1	49	22.43	22.47	22.42
	25	0	21.44	21.40	21.37
	25	12	21.30	21.40	21.21
	25	25	21.33	21.43	21.26
	50	0	21.31	21.40	21.32
256QAM	1	0	19.29	19.30	19.18
	1	24	19.52	19.65	19.47
	1	49	19.22	19.29	19.23
	25	0	19.40	19.41	19.29
	25	12	19.36	19.42	19.39
	25	25	19.36	19.35	19.21
	50	0	19.35	19.30	19.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.15	24.39	26.35	27.59	33.01
16QAM	22.27	23.82	25.47	27.02	33.01
64QAM	21.21	22.57	24.41	25.77	33.01
256QAM	19.18	19.65	22.38	22.85	33.01

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

LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26115	CH 26365	CH 26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz
QPSK	1	0	24.20	24.40	24.17
	1	37	24.26	24.37	24.19
	1	74	24.29	24.23	24.21
	36	0	23.34	23.46	23.28
	36	19	23.42	23.41	23.37
	36	39	23.40	23.45	23.32
	75	0	23.26	23.30	23.19
16QAM	1	0	23.35	23.45	23.29
	1	37	23.59	23.74	23.57
	1	74	23.82	23.75	23.73
	36	0	22.45	22.43	22.36
	36	19	22.42	22.46	22.40
	36	39	22.35	22.39	22.36
	75	0	22.34	22.38	22.32
64QAM	1	0	22.52	22.55	22.46
	1	37	22.49	22.57	22.43
	1	74	22.46	22.53	22.45
	36	0	21.45	21.48	21.47
	36	19	21.31	21.32	21.19
	36	39	21.29	21.36	21.19
	75	0	21.36	21.40	21.36
256QAM	1	0	19.29	19.37	19.23
	1	37	19.57	19.58	19.52
	1	74	19.23	19.28	19.20
	36	0	19.35	19.35	19.23
	36	19	19.38	19.40	19.36
	36	39	19.36	19.36	19.22
	75	0	19.33	19.32	19.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.19	24.40	26.39	27.60	33.01
16QAM	22.32	23.82	25.52	27.02	33.01
64QAM	21.19	22.57	24.39	25.77	33.01
256QAM	19.20	19.58	22.40	22.78	33.01

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

LTE Band 25, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26140	CH 26365	CH 26590
			1860 MHz	1882.5 MHz	1905 MHz
QPSK	1	0	24.23	24.42	24.20
	1	50	24.32	24.40	24.24
	1	99	24.29	24.32	24.21
	50	0	23.39	23.49	23.38
	50	25	23.44	23.44	23.41
	50	50	23.44	23.45	23.40
	100	0	23.28	23.37	23.24
16QAM	1	0	23.38	23.46	23.30
	1	50	23.65	23.75	23.61
	1	99	23.85	23.85	23.81
	50	0	22.45	22.50	22.38
	50	25	22.48	22.49	22.42
	50	50	22.37	22.47	22.37
	100	0	22.44	22.44	22.42
64QAM	1	0	22.55	22.59	22.47
	1	50	22.54	22.64	22.48
	1	99	22.51	22.56	22.48
	50	0	21.50	21.50	21.47
	50	25	21.33	21.42	21.24
	50	50	21.39	21.43	21.29
	100	0	21.41	21.47	21.41
256QAM	1	0	19.29	19.39	19.28
	1	50	19.59	19.65	19.53
	1	99	19.29	19.37	19.26
	50	0	19.40	19.44	19.32
	50	25	19.41	19.44	19.40
	50	50	19.37	19.44	19.29
	100	0	19.39	19.40	19.31

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.24	24.42	26.44	27.62	33.01
16QAM	22.37	23.85	25.57	27.05	33.01
64QAM	21.24	22.64	24.44	25.84	33.01
256QAM	19.26	19.65	22.46	22.85	33.01

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

7.1.10 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	24.36	24.35	24.25
	1	2	24.39	24.29	24.28
	1	5	24.21	24.30	24.20
	3	0	24.42	24.40	24.31
	3	1	24.42	24.35	24.33
	3	3	24.21	24.32	24.42
	6	0	23.38	23.41	23.23
16QAM	1	0	23.49	23.48	23.39
	1	2	23.57	23.55	23.43
	1	5	23.54	23.60	23.49
	3	0	23.68	23.67	23.34
	3	1	23.69	23.70	23.55
	3	3	23.73	23.48	23.67
	6	0	22.40	22.38	22.33
64QAM	1	0	22.51	22.46	22.45
	1	2	22.79	22.80	22.72
	1	5	22.37	22.35	22.30
	3	0	22.51	22.15	22.59
	3	1	22.67	22.18	22.62
	3	3	22.55	22.01	22.69
	6	0	21.32	21.33	21.19
256QAM	1	0	19.61	19.62	19.52
	1	2	19.65	19.69	19.58
	1	5	19.74	19.69	19.65
	3	0	19.40	19.45	19.33
	3	1	19.41	19.42	19.42
	3	3	19.44	19.38	19.32
	6	0	19.36	19.36	19.34

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.23	24.42	22.33	23.52	50
16QAM	22.33	23.73	21.43	22.83	50
64QAM	21.19	22.80	20.29	21.90	50
256QAM	19.32	19.74	18.42	18.84	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	24.41	24.33	24.19
	1	7	24.32	24.39	24.30
	1	14	24.26	24.23	24.12
	8	0	23.37	23.33	23.31
	8	3	23.31	23.31	23.11
	8	7	23.52	23.49	23.41
	15	0	23.41	23.40	23.22
16QAM	1	0	23.45	23.53	23.37
	1	7	23.57	23.57	23.41
	1	14	23.50	23.51	23.48
	8	0	22.37	22.30	22.32
	8	3	22.46	22.47	22.33
	8	7	22.32	22.39	22.27
	15	0	22.38	22.38	22.28
64QAM	1	0	22.52	22.48	22.43
	1	7	22.78	22.84	22.74
	1	14	22.37	22.39	22.26
	8	0	21.42	21.40	21.28
	8	3	21.36	21.34	21.31
	8	7	21.30	21.31	21.19
	15	0	21.35	21.30	21.21
256QAM	1	0	19.63	19.64	19.53
	1	7	19.65	19.71	19.55
	1	14	19.76	19.79	19.68
	8	0	19.43	19.40	19.39
	8	3	19.44	19.43	19.41
	8	7	19.45	19.43	19.27
	15	0	19.39	19.37	19.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.11	24.41	22.21	23.51	50
16QAM	22.27	23.57	21.37	22.67	50
64QAM	21.19	22.84	20.29	21.94	50
256QAM	19.27	19.79	18.37	18.89	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	24.35	24.37	24.24
	1	12	24.29	24.29	24.36
	1	24	24.20	24.30	24.21
	12	0	23.37	23.30	23.31
	12	6	23.32	23.26	23.19
	12	13	23.52	23.47	23.35
	25	0	23.40	23.36	23.32
16QAM	1	0	23.50	23.51	23.34
	1	12	23.60	23.58	23.41
	1	24	23.51	23.58	23.47
	12	0	22.38	22.36	22.31
	12	6	22.37	22.39	22.38
	12	13	22.35	22.37	22.26
	25	0	22.41	22.41	22.26
64QAM	1	0	22.53	22.47	22.48
	1	12	22.83	22.80	22.71
	1	24	22.40	22.39	22.27
	12	0	21.44	21.39	21.28
	12	6	21.40	21.41	21.28
	12	13	21.35	21.33	21.18
	25	0	21.32	21.30	21.22
256QAM	1	0	19.64	19.57	19.57
	1	12	19.70	19.62	19.58
	1	24	19.72	19.70	19.62
	12	0	19.47	19.44	19.42
	12	6	19.37	19.43	19.41
	12	13	19.40	19.41	19.33
	25	0	19.35	19.39	19.31

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.19	24.37	22.29	23.47	50
16QAM	22.26	23.60	21.36	22.70	50
64QAM	21.18	22.83	20.28	21.93	50
256QAM	19.31	19.72	18.41	18.82	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	24.28
	1	24	24.24
	1	49	24.11
	25	0	23.31
	25	12	23.21
	25	25	23.39
	50	0	23.27
16QAM	1	0	23.36
	1	24	23.45
	1	49	23.45
	25	0	22.19
	25	12	22.31
	25	25	22.23
	50	0	22.17
64QAM	1	0	22.41
	1	24	22.68
	1	49	22.29
	25	0	21.26
	25	12	21.20
	25	25	21.25
	50	0	21.13
256QAM	1	0	19.43
	1	24	19.59
	1	49	19.59
	25	0	19.32
	25	12	19.37
	25	25	19.28
	50	0	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.28	22.31	23.38	50
16QAM	22.17	23.45	21.27	22.55	50
64QAM	21.13	22.68	20.23	21.78	50
256QAM	19.28	19.59	18.38	18.69	50

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

7.1.11 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	24.41	24.20	24.32
	1	2	24.32	24.33	24.38
	1	5	24.26	24.18	24.11
	3	0	24.37	24.32	24.40
	3	1	24.38	24.31	24.14
	3	3	24.42	24.39	24.36
	6	0	23.34	23.25	23.38
16QAM	1	0	23.50	23.42	23.48
	1	2	23.56	23.45	23.56
	1	5	23.58	23.45	23.51
	3	0	23.64	23.61	23.69
	3	1	23.75	23.74	23.54
	3	3	23.70	23.41	23.84
	6	0	22.36	22.33	22.30
64QAM	1	0	22.50	22.46	22.45
	1	2	22.78	22.77	22.79
	1	5	22.43	22.33	22.25
	3	0	22.56	22.32	22.45
	3	1	22.50	22.44	22.85
	3	3	22.63	22.25	22.41
	6	0	21.36	21.17	21.20
256QAM	1	0	19.62	19.55	19.58
	1	2	19.70	19.59	19.70
	1	5	19.70	19.60	19.67
	3	0	19.46	19.33	19.47
	3	1	19.35	19.43	19.38
	3	3	19.40	19.31	19.34
	6	0	19.38	19.26	19.31

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.42	22.35	23.52	38.45
16QAM	22.30	23.84	21.40	22.94	38.45
64QAM	21.17	22.85	20.27	21.95	38.45
256QAM	19.26	19.70	18.36	18.80	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	24.39	24.27	24.31
	1	7	24.33	24.36	24.38
	1	14	24.20	24.21	24.20
	8	0	23.32	23.22	23.38
	8	3	23.26	23.10	23.19
	8	7	23.46	23.34	23.43
	15	0	23.32	23.24	23.33
16QAM	1	0	23.46	23.41	23.44
	1	7	23.65	23.45	23.50
	1	14	23.51	23.42	23.54
	8	0	22.30	22.32	22.28
	8	3	22.46	22.29	22.33
	8	7	22.32	22.28	22.30
	15	0	22.43	22.26	22.25
64QAM	1	0	22.54	22.44	22.48
	1	7	22.83	22.81	22.78
	1	14	22.35	22.30	22.33
	8	0	21.42	21.28	21.29
	8	3	21.32	21.22	21.24
	8	7	21.35	21.20	21.32
	15	0	21.31	21.17	21.18
256QAM	1	0	19.61	19.51	19.57
	1	7	19.68	19.57	19.68
	1	14	19.69	19.69	19.67
	8	0	19.39	19.37	19.47
	8	3	19.41	19.38	19.39
	8	7	19.41	19.31	19.37
	15	0	19.38	19.26	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.10	24.39	22.20	23.49	38.45
16QAM	22.25	23.65	21.35	22.75	38.45
64QAM	21.17	22.83	20.27	21.93	38.45
256QAM	19.26	19.69	18.36	18.79	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	24.32	24.19	24.33
	1	12	24.30	24.37	24.30
	1	24	24.22	24.13	24.19
	12	0	23.33	23.27	23.30
	12	6	23.25	23.17	23.21
	12	13	23.44	23.44	23.41
	25	0	23.38	23.30	23.29
16QAM	1	0	23.49	23.32	23.49
	1	12	23.60	23.46	23.54
	1	24	23.59	23.42	23.51
	12	0	22.34	22.26	22.28
	12	6	22.43	22.30	22.40
	12	13	22.40	22.32	22.30
	25	0	22.41	22.27	22.25
64QAM	1	0	22.47	22.38	22.48
	1	12	22.76	22.71	22.78
	1	24	22.41	22.30	22.34
	12	0	21.37	21.24	21.36
	12	6	21.39	21.28	21.30
	12	13	21.36	21.23	21.25
	25	0	21.37	21.17	21.20
256QAM	1	0	19.63	19.53	19.63
	1	12	19.71	19.52	19.67
	1	24	19.77	19.66	19.64
	12	0	19.40	19.37	19.41
	12	6	19.37	19.40	19.36
	12	13	19.42	19.26	19.31
	25	0	19.34	19.31	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.17	24.37	22.27	23.47	38.45
16QAM	22.25	23.60	21.35	22.70	38.45
64QAM	21.17	22.78	20.27	21.88	38.45
256QAM	19.26	19.77	18.36	18.87	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	24.21	24.29
	1	24	24.30	24.30	24.30
	1	49	24.27	24.14	24.19
	25	0	23.33	23.30	23.38
	25	12	23.24	23.10	23.18
	25	25	23.49	23.43	23.42
	50	0	23.34	23.28	23.33
16QAM	1	0	23.54	23.41	23.47
	1	24	23.58	23.37	23.51
	1	49	23.51	23.40	23.52
	25	0	22.35	22.30	22.27
	25	12	22.43	22.31	22.36
	25	25	22.36	22.34	22.30
	50	0	22.36	22.33	22.32
64QAM	1	0	22.53	22.41	22.51
	1	24	22.78	22.76	22.84
	1	49	22.37	22.29	22.26
	25	0	21.44	21.21	21.33
	25	12	21.33	21.29	21.28
	25	25	21.31	21.23	21.32
	50	0	21.33	21.14	21.27
256QAM	1	0	19.55	19.57	19.58
	1	24	19.69	19.52	19.65
	1	49	19.77	19.67	19.70
	25	0	19.42	19.38	19.46
	25	12	19.35	19.38	19.37
	25	25	19.39	19.25	19.35
	50	0	19.33	19.27	19.38

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.10	24.40	22.20	23.50	38.45
16QAM	22.27	23.58	21.37	22.68	38.45
64QAM	21.14	22.84	20.24	21.94	38.45
256QAM	19.25	19.77	18.35	18.87	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	24.28	24.35
	1	37	24.39	24.38	24.39
	1	74	24.30	24.21	24.21
	36	0	23.40	23.32	23.38
	36	19	23.33	23.20	23.24
	36	39	23.52	23.44	23.47
	75	0	23.41	23.32	23.38
16QAM	1	0	23.54	23.42	23.51
	1	37	23.65	23.46	23.56
	1	74	23.60	23.50	23.57
	36	0	22.40	22.32	22.35
	36	19	22.47	22.38	22.43
	36	39	22.41	22.34	22.37
	75	0	22.44	22.33	22.34
64QAM	1	0	22.54	22.48	22.53
	1	37	22.86	22.81	22.85
	1	74	22.43	22.34	22.35
	36	0	21.46	21.29	21.36
	36	19	21.41	21.32	21.34
	36	39	21.37	21.26	21.34
	75	0	21.37	21.23	21.27
256QAM	1	0	19.64	19.61	19.63
	1	37	19.71	19.61	19.70
	1	74	19.79	19.69	19.72
	36	0	19.49	19.42	19.48
	36	19	19.44	19.44	19.44
	36	39	19.47	19.34	19.40
	75	0	19.43	19.36	19.40

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.20	24.42	22.30	23.52	38.45
16QAM	22.32	23.65	21.42	22.75	38.45
64QAM	21.23	22.86	20.33	21.96	38.45
256QAM	19.34	19.79	18.44	18.89	38.45

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

7.1.12 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	23.90	23.87	23.90
	1	12	23.86	23.89	23.88
	1	24	23.83	23.85	23.86
	12	0	22.87	22.95	22.93
	12	6	22.90	22.94	22.94
	12	13	22.86	22.91	22.92
	25	0	23.28	23.42	23.54
16QAM	1	0	22.92	22.92	22.97
	1	12	22.94	22.92	22.92
	1	24	22.90	22.85	22.84
	12	0	21.96	21.99	21.98
	12	6	21.91	21.93	21.93
	12	13	22.06	22.01	22.02
	25	0	22.33	22.48	22.60
64QAM	1	0	22.30	22.34	22.27
	1	12	22.29	22.31	22.25
	1	24	22.34	22.4	22.40
	12	0	21.37	21.46	21.43
	12	6	21.39	21.39	21.35
	12	13	21.40	21.43	21.34
	25	0	21.47	21.47	21.37
256QAM	1	0	19.17	19.25	19.15
	1	12	19.44	19.53	19.48
	1	24	19.39	19.43	19.41
	12	0	19.40	19.40	19.36
	12	6	19.44	19.46	19.41
	12	13	19.51	19.52	19.49
	25	0	19.35	19.42	19.41

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.86	23.9	22.86	23.9	23.98
16QAM	21.91	22.97	21.91	22.97	23.98
64QAM	21.34	22.4	21.34	22.4	23.98
256QAM	19.15	19.53	19.15	19.53	23.98

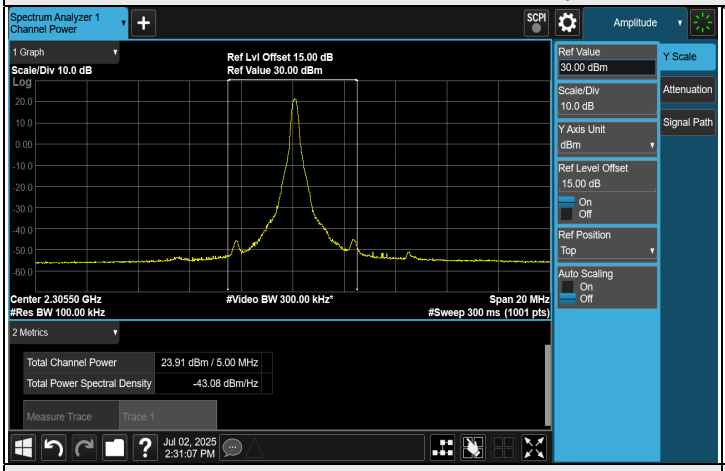
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

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	23.97
	1	24	23.94
	1	49	23.90
	25	0	22.96
	25	12	22.95
	25	25	22.93
	50	0	21.45
16QAM	1	0	22.98
	1	24	22.96
	1	49	22.94
	25	0	21.99
	25	12	21.98
	25	25	22.08
	50	0	20.50
64QAM	1	0	22.50
	1	24	22.49
	1	49	22.50
	25	0	21.35
	25	12	21.45
	25	25	21.50
	50	0	20.41
256QAM	1	0	19.26
	1	24	19.45
	1	49	19.49
	25	0	19.33
	25	12	19.44
	25	25	19.49
	50	0	19.40

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	19.02	23.97	19.02	23.97	23.98
16QAM	18.02	22.98	18.02	22.98	23.98
64QAM	18	22.50	18	22.50	23.98
256QAM	16.98	19.53	16.98	19.53	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.

7.1.13 LTE Band 41

LTE Band 41, PC2, 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	26.60	26.93	26.77
	1	12	26.86	26.91	26.82
	1	24	26.51	26.73	26.61
	12	0	25.83	26.01	25.79
	12	6	25.88	25.97	25.99
	12	13	25.96	25.97	25.86
	25	0	25.88	25.98	25.89
16QAM	1	0	26.14	26.23	26.08
	1	12	26.40	26.37	26.39
	1	24	25.93	26.05	26.08
	12	0	25.02	25.07	24.94
	12	6	25.08	25.06	25.01
	12	13	25.03	25.09	25.01
	25	0	24.89	24.97	24.97
64QAM	1	0	24.97	25.07	24.96
	1	12	25.19	25.28	25.13
	1	24	24.84	25.04	24.92
	12	0	23.90	24.04	23.93
	12	6	23.86	24.03	23.96
	12	13	23.97	24.02	23.99
	25	0	23.96	23.94	23.86
256QAM	1	0	21.92	22.06	21.93
	1	12	22.10	22.21	22.08
	1	24	21.91	22.02	21.90
	12	0	21.78	21.93	21.82
	12	6	21.94	22.03	21.97
	12	13	21.86	22.05	21.88
	25	0	21.96	22.03	21.86

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.79	26.93	28.54	29.68	33.01
16QAM	24.89	26.4	27.64	29.15	33.01
64QAM	23.86	25.28	26.61	28.03	33.01
256QAM	21.78	22.21	24.53	24.96	33.01

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

LTE Band 41, PC2, 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	26.62	26.91	26.75
	1	24	26.78	26.95	26.88
	1	49	26.54	26.67	26.56
	25	0	25.84	25.93	25.81
	25	12	25.88	26.01	25.94
	25	25	25.87	25.98	25.83
	50	0	25.90	25.89	25.83
16QAM	1	0	26.18	26.27	26.08
	1	24	26.41	26.39	26.30
	1	49	25.99	26.08	26.02
	25	0	24.97	25.06	24.97
	25	12	25.04	25.01	24.98
	25	25	25.07	25.13	25.02
	50	0	24.95	24.99	24.92
64QAM	1	0	25.01	25.07	25.05
	1	24	25.14	25.26	25.14
	1	49	24.84	25.04	24.97
	25	0	23.97	24.06	24.03
	25	12	23.89	24.06	23.98
	25	25	23.99	24.03	23.98
	50	0	23.99	23.95	23.92
256QAM	1	0	21.93	22.12	21.94
	1	24	22.12	22.25	22.04
	1	49	21.96	22.04	21.94
	25	0	21.77	21.84	21.83
	25	12	21.97	22.02	21.89
	25	25	21.86	22.05	21.84
	50	0	21.94	22.01	21.90

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.81	26.95	28.56	29.7	33.01
16QAM	24.92	26.41	27.67	29.16	33.01
64QAM	23.89	25.26	26.64	28.01	33.01
256QAM	21.77	22.25	24.52	25	33.01

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

LTE Band 41, PC2, 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	26.60	26.86	26.71
	1	37	26.79	26.90	26.81
	1	74	26.50	26.70	26.59
	36	0	25.79	25.94	25.77
	36	19	25.84	26.02	25.96
	36	39	25.88	26.00	25.83
	75	0	25.91	25.90	25.84
16QAM	1	0	26.14	26.27	26.09
	1	37	26.45	26.42	26.30
	1	74	25.93	26.07	26.03
	36	0	25.00	25.02	25.03
	36	19	24.99	25.02	25.04
	36	39	25.01	25.14	25.07
	75	0	24.91	24.93	24.94
64QAM	1	0	25.01	25.05	25.02
	1	37	25.19	25.22	25.12
	1	74	24.86	24.98	24.95
	36	0	23.87	24.03	23.97
	36	19	23.85	24.00	23.98
	36	39	24.06	24.03	24.00
	75	0	24.01	23.94	23.85
256QAM	1	0	21.91	22.14	21.98
	1	37	22.13	22.29	22.02
	1	74	21.97	22.06	21.93
	36	0	21.78	21.84	21.83
	36	19	21.91	22.07	21.99
	36	39	21.82	21.98	21.88
	75	0	21.92	22.02	21.88

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.77	26.9	28.52	29.65	33.01
16QAM	24.91	26.45	27.66	29.2	33.01
64QAM	23.85	25.22	26.6	27.97	33.01
256QAM	21.78	22.29	24.53	25.04	33.01

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

LTE Band 41, PC2, 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	26.42	26.94	26.79
	1	50	26.87	26.97	26.89
	1	99	26.60	26.74	26.63
	50	0	25.86	26.03	25.85
	50	25	25.94	26.05	26.01
	50	50	25.96	26.00	25.91
	100	0	25.91	25.99	25.89
16QAM	1	0	26.19	26.30	26.16
	1	50	26.46	26.47	26.39
	1	99	26.03	26.12	26.11
	50	0	25.02	25.07	25.03
	50	25	25.09	25.09	25.06
	50	50	25.07	25.17	25.07
	100	0	24.96	25.03	24.99
64QAM	1	0	25.02	25.15	25.06
	1	50	25.19	25.29	25.18
	1	99	24.94	25.08	24.98
	50	0	23.97	24.08	24.03
	50	25	23.94	24.07	24.01
	50	50	24.06	24.10	24.08
	100	0	24.01	24.02	23.92
256QAM	1	0	21.96	22.15	21.98
	1	50	22.18	22.29	22.10
	1	99	21.99	22.09	21.96
	50	0	21.83	21.94	21.86
	50	25	21.98	22.08	21.99
	50	50	21.92	22.07	21.89
	100	0	21.97	22.03	21.91

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	25.85	26.97	28.6	29.72	33.01
16QAM	24.96	26.47	27.71	29.22	33.01
64QAM	23.92	25.29	26.67	28.04	33.01
256QAM	21.83	22.29	24.58	25.04	33.01

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

LTE Band 41, PC3, 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	23.60	23.90	23.75
	1	12	23.57	23.91	23.69
	1	24	23.63	23.74	23.59
	12	0	22.73	22.82	22.80
	12	6	22.77	22.87	22.79
	12	13	22.69	22.80	22.76
	25	0	22.72	22.83	22.75
16QAM	1	0	22.81	22.89	22.72
	1	12	22.84	22.87	22.77
	1	24	22.60	22.72	22.61
	12	0	21.74	21.89	21.72
	12	6	21.78	21.84	21.74
	12	13	21.84	21.89	21.74
	25	0	21.67	21.79	21.61
64QAM	1	0	21.68	21.75	21.61
	1	12	21.80	21.86	21.83
	1	24	21.56	21.73	21.66
	12	0	20.82	20.87	20.75
	12	6	20.75	20.88	20.77
	12	13	20.77	20.87	20.80
	25	0	20.77	20.85	20.62
256QAM	1	0	18.63	18.76	18.70
	1	12	18.90	18.88	18.87
	1	24	18.50	18.63	18.50
	12	0	18.72	18.88	18.78
	12	6	18.64	18.86	18.77
	12	13	18.85	18.89	18.73
	25	0	18.73	18.80	18.64

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.69	23.91	25.44	26.66	33.01
16QAM	21.61	22.89	24.36	25.64	33.01
64QAM	20.62	21.86	23.37	24.61	33.01
256QAM	18.5	18.9	21.25	21.65	33.01

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

LTE Band 41, PC3, 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	23.54	23.87	23.70
	1	24	23.62	23.92	23.69
	1	49	23.67	23.66	23.64
	25	0	22.68	22.87	22.72
	25	12	22.76	22.88	22.78
	25	25	22.70	22.85	22.69
	50	0	22.75	22.76	22.75
16QAM	1	0	22.76	22.90	22.78
	1	24	22.76	22.90	22.73
	1	49	22.54	22.69	22.59
	25	0	21.70	21.87	21.69
	25	12	21.81	21.80	21.76
	25	25	21.75	21.83	21.70
	50	0	21.74	21.76	21.65
64QAM	1	0	21.72	21.82	21.66
	1	24	21.88	21.89	21.83
	1	49	21.57	21.72	21.57
	25	0	20.88	20.92	20.77
	25	12	20.73	20.85	20.71
	25	25	20.77	20.89	20.85
	50	0	20.78	20.79	20.65
256QAM	1	0	18.70	18.81	18.69
	1	24	18.89	18.98	18.82
	1	49	18.46	18.64	18.41
	25	0	18.76	18.89	18.76
	25	12	18.69	18.86	18.72
	25	25	18.77	18.88	18.74
	50	0	18.71	18.78	18.69

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.68	23.92	25.43	26.67	33.01
16QAM	21.65	22.9	24.4	25.65	33.01
64QAM	20.65	21.89	23.4	24.64	33.01
256QAM	18.41	18.98	21.16	21.73	33.01

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

LTE Band 41, PC3, 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	23.55	23.81	23.73
	1	37	23.56	23.94	23.76
	1	74	23.68	23.76	23.61
	36	0	22.68	22.83	22.76
	36	19	22.81	22.91	22.83
	36	39	22.71	22.84	22.74
	75	0	22.69	22.77	22.74
16QAM	1	0	22.77	22.90	22.78
	1	37	22.83	22.85	22.72
	1	74	22.60	22.74	22.66
	36	0	21.76	21.89	21.73
	36	19	21.81	21.89	21.69
	36	39	21.78	21.81	21.80
	75	0	21.74	21.78	21.64
64QAM	1	0	21.74	21.74	21.59
	1	37	21.79	21.87	21.84
	1	74	21.57	21.74	21.66
	36	0	20.89	20.92	20.74
	36	19	20.81	20.89	20.77
	36	39	20.76	20.81	20.82
	75	0	20.80	20.81	20.63
256QAM	1	0	18.67	18.81	18.69
	1	37	18.89	18.91	18.91
	1	74	18.52	18.56	18.40
	36	0	18.74	18.80	18.83
	36	19	18.68	18.84	18.70
	36	39	18.76	18.84	18.66
	75	0	18.66	18.77	18.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.68	23.94	25.43	26.69	33.01
16QAM	21.64	22.9	24.39	25.65	33.01
64QAM	20.63	21.87	23.38	24.62	33.01
256QAM	18.4	18.91	21.15	21.66	33.01

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

LTE Band 41, PC3, 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	23.60	23.91	23.80
	1	50	23.66	23.94	23.78
	1	99	23.69	23.76	23.68
	50	0	22.74	22.90	22.82
	50	25	22.84	22.92	22.88
	50	50	22.77	22.89	22.76
	100	0	22.75	22.86	22.80
16QAM	1	0	22.83	22.93	22.82
	1	50	22.85	22.94	22.82
	1	99	22.63	22.74	22.68
	50	0	21.80	21.89	21.79
	50	25	21.84	21.90	21.79
	50	50	21.84	21.91	21.80
	100	0	21.77	21.85	21.70
64QAM	1	0	21.76	21.82	21.69
	1	50	21.89	21.95	21.92
	1	99	21.63	21.75	21.66
	50	0	20.90	20.93	20.82
	50	25	20.83	20.89	20.81
	50	50	20.84	20.89	20.86
	100	0	20.81	20.86	20.72
256QAM	1	0	18.71	18.82	18.72
	1	50	18.92	18.98	18.91
	1	99	18.56	18.64	18.50
	50	0	18.77	18.90	18.83
	50	25	18.70	18.88	18.79
	50	50	18.85	18.89	18.74
	100	0	18.73	18.84	18.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.74	23.94	25.49	26.69	33.01
16QAM	21.7	22.94	24.45	25.69	33.01
64QAM	20.72	21.95	23.47	24.7	33.01
256QAM	18.5	18.98	21.25	21.73	33.01

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

7.1.14 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42115	CH 42590	CH 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
QPSK	1	0	24.01	23.56	23.59
	1	12	23.76	23.69	23.49
	1	24	23.63	23.61	23.69
	12	0	22.67	22.70	22.49
	12	6	22.69	22.64	22.50
	12	13	22.72	22.59	22.60
	25	0	22.73	22.67	22.52
16QAM	1	0	22.76	22.63	22.57
	1	12	22.80	22.61	22.58
	1	24	22.68	22.68	22.51
	12	0	21.71	21.73	21.54
	12	6	21.79	21.66	21.58
	12	13	21.78	21.82	21.64
	25	0	21.65	21.67	21.56
64QAM	1	0	21.57	21.53	21.48
	1	12	21.78	21.73	21.66
	1	24	21.55	21.67	21.50
	12	0	20.70	20.64	20.48
	12	6	20.69	20.60	20.60
	12	13	20.79	20.75	20.69
	25	0	20.62	20.64	20.41
256QAM	1	0	18.61	18.59	18.41
	1	12	18.84	18.71	18.66
	1	24	18.74	18.67	18.63
	12	0	18.77	18.57	18.59
	12	6	18.64	18.71	18.55
	12	13	18.68	18.69	18.71
	25	0	18.80	18.69	18.64

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.49	24.01	20.99	22.51	30
16QAM	21.54	22.80	20.04	21.30	30
64QAM	20.41	21.78	18.91	20.28	30
256QAM	18.41	18.84	16.91	17.34	30

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

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42140	CH 42590	CH 43040
			3455 MHz	3500 MHz	3545 MHz
QPSK	1	0	24.05	23.55	23.63
	1	24	23.70	23.71	23.46
	1	49	23.71	23.57	23.63
	25	0	22.72	22.70	22.50
	25	12	22.71	22.57	22.54
	25	25	22.66	22.63	22.59
	50	0	22.67	22.67	22.47
16QAM	1	0	22.76	22.68	22.53
	1	24	22.77	22.62	22.55
	1	49	22.65	22.67	22.59
	25	0	21.75	21.69	21.61
	25	12	21.74	21.67	21.52
	25	25	21.82	21.85	21.61
	50	0	21.70	21.71	21.54
64QAM	1	0	21.64	21.57	21.45
	1	24	21.82	21.76	21.64
	1	49	21.65	21.64	21.47
	25	0	20.61	20.59	20.44
	25	12	20.61	20.61	20.61
	25	25	20.80	20.81	20.70
	50	0	20.63	20.65	20.44
256QAM	1	0	18.63	18.61	18.48
	1	24	18.84	18.76	18.65
	1	49	18.70	18.74	18.61
	25	0	18.79	18.67	18.57
	25	12	18.68	18.75	18.58
	25	25	18.75	18.76	18.68
	50	0	18.71	18.67	18.64

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.47	24.05	20.97	22.55	30
16QAM	21.52	22.77	20.02	21.27	30
64QAM	20.44	21.82	18.94	20.32	30
256QAM	18.48	18.84	16.98	17.34	30

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

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42165	CH 42590	CH 43015
			3457.5 MHz	3500 MHz	3542.5 MHz
QPSK	1	0	24.03	23.60	23.63
	1	37	23.73	23.68	23.52
	1	74	23.64	23.65	23.69
	36	0	22.70	22.65	22.58
	36	19	22.66	22.66	22.48
	36	39	22.68	22.65	22.56
	75	0	22.73	22.68	22.47
16QAM	1	0	22.72	22.61	22.57
	1	37	22.75	22.69	22.52
	1	74	22.67	22.69	22.52
	36	0	21.76	21.70	21.55
	36	19	21.73	21.70	21.57
	36	39	21.78	21.75	21.68
	75	0	21.72	21.69	21.56
64QAM	1	0	21.59	21.53	21.53
	1	37	21.86	21.73	21.62
	1	74	21.60	21.62	21.53
	36	0	20.65	20.66	20.48
	36	19	20.62	20.61	20.55
	36	39	20.77	20.73	20.72
	75	0	20.67	20.71	20.45
256QAM	1	0	18.62	18.59	18.45
	1	37	18.83	18.75	18.64
	1	74	18.65	18.74	18.61
	36	0	18.74	18.59	18.58
	36	19	18.68	18.72	18.52
	36	39	18.67	18.76	18.71
	75	0	18.71	18.62	18.65

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.47	24.03	20.97	22.53	30
16QAM	21.55	22.75	20.05	21.25	30
64QAM	20.45	21.86	18.95	20.36	30
256QAM	18.45	18.83	16.95	17.33	30

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

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42190	CH 42590	CH 42990
			3460 MHz	3500 MHz	3540 MHz
QPSK	1	0	24.06	23.65	23.69
	1	50	23.78	23.77	23.56
	1	99	23.73	23.65	23.69
	50	0	22.74	22.74	22.59
	50	25	22.73	22.66	22.56
	50	50	22.75	22.69	22.62
	100	0	22.77	22.72	22.55
16QAM	1	0	22.81	22.69	22.60
	1	50	22.80	22.71	22.62
	1	99	22.74	22.73	22.60
	50	0	21.81	21.74	21.63
	50	25	21.80	21.75	21.62
	50	50	21.83	21.85	21.71
	100	0	21.75	21.73	21.58
64QAM	1	0	21.65	21.63	21.55
	1	50	21.87	21.83	21.67
	1	99	21.65	21.67	21.53
	50	0	20.70	20.66	20.54
	50	25	20.71	20.68	20.61
	50	50	20.80	20.81	20.72
	100	0	20.68	20.74	20.49
256QAM	1	0	18.65	18.66	18.50
	1	50	18.86	18.76	18.70
	1	99	18.74	18.75	18.64
	50	0	18.80	18.67	18.59
	50	25	18.74	18.80	18.62
	50	50	18.76	18.78	18.73
	100	0	18.80	18.69	18.71

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.55	24.06	21.05	22.56	30
16QAM	21.58	22.81	20.08	21.31	30
64QAM	20.49	21.87	18.99	20.37	30
256QAM	18.50	18.86	17.00	17.36	30

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

7.1.15 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	24.03	24.33	24.66
	1	2	24.25	24.70	24.71
	1	5	24.17	24.79	24.82
	3	0	24.33	24.52	24.81
	3	1	24.36	24.62	24.84
	3	3	24.22	24.48	24.87
	6	0	23.35	23.78	23.74
16QAM	1	0	24.01	23.89	24.02
	1	2	23.98	23.92	24.02
	1	5	23.96	24.14	24.19
	3	0	23.52	23.67	24.21
	3	1	23.21	23.71	24.07
	3	3	23.42	23.62	24.11
	6	0	22.83	22.79	22.83
64QAM	1	0	22.88	22.90	22.97
	1	2	23.07	23.05	23.10
	1	5	22.97	23.03	23.12
	3	0	22.31	22.65	23.10
	3	1	22.35	22.77	22.62
	3	3	22.57	22.71	23.40
	6	0	21.68	21.71	21.72
256QAM	1	0	19.78	19.68	19.74
	1	2	19.88	19.87	19.83
	1	5	19.86	19.81	19.88
	3	0	19.65	19.69	19.67
	3	1	19.74	19.76	19.80
	3	3	19.72	19.69	19.82
	6	0	19.77	19.79	19.81

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.35	24.87	25.66	27.18	30
16QAM	22.79	24.23	25.1	26.54	30
64QAM	21.68	23.62	23.99	25.93	30
256QAM	19.65	19.88	21.96	22.19	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	24.04	24.41	24.65
	1	7	24.25	24.74	24.74
	1	14	24.17	24.79	24.81
	8	0	23.21	23.68	23.76
	8	3	23.36	23.66	23.81
	8	7	23.30	23.86	23.85
	15	0	23.26	23.79	23.75
16QAM	1	0	23.93	23.95	24.03
	1	7	24.02	23.95	23.99
	1	14	23.85	23.88	23.87
	8	0	22.70	22.63	22.66
	8	3	22.81	22.75	22.82
	8	7	22.84	22.87	22.89
	15	0	22.79	22.86	22.82
64QAM	1	0	22.94	22.88	22.87
	1	7	23.08	23.00	23.08
	1	14	23.00	23.07	23.07
	8	0	21.69	21.72	21.73
	8	3	21.73	21.70	21.84
	8	7	21.87	21.85	21.83
	15	0	21.72	21.70	21.76
256QAM	1	0	19.69	19.75	19.83
	1	7	19.88	19.89	19.88
	1	14	19.82	19.80	19.87
	8	0	19.65	19.65	19.65
	8	3	19.77	19.75	19.79
	8	7	19.71	19.76	19.86
	15	0	19.77	19.81	19.75

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.21	24.81	25.52	27.12	30
16QAM	22.63	24.03	24.94	26.34	30
64QAM	21.69	23.08	24	25.39	30
256QAM	19.65	19.89	21.96	22.2	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	24.01	24.40	24.68
	1	12	24.24	24.72	24.78
	1	24	24.16	24.72	24.77
	12	0	23.15	23.73	23.73
	12	6	23.27	23.65	23.76
	12	13	23.31	23.84	23.88
	25	0	23.31	23.72	23.77
16QAM	1	0	24.02	23.92	24.01
	1	12	23.98	23.93	23.98
	1	24	23.86	23.86	23.90
	12	0	22.64	22.68	22.69
	12	6	22.82	22.78	22.82
	12	13	22.80	22.85	22.87
	25	0	22.86	22.85	22.78
64QAM	1	0	22.92	22.93	22.94
	1	12	23.08	22.98	23.11
	1	24	23.04	23.01	23.09
	12	0	21.64	21.71	21.77
	12	6	21.70	21.76	21.79
	12	13	21.86	21.78	21.91
	25	0	21.70	21.76	21.75
256QAM	1	0	19.71	19.75	19.82
	1	12	19.86	19.92	19.89
	1	24	19.85	19.89	19.93
	12	0	19.61	19.63	19.70
	12	6	19.74	19.69	19.79
	12	13	19.70	19.72	19.82
	25	0	19.72	19.75	19.77

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.15	24.78	25.46	27.09	30
16QAM	22.64	24.02	24.95	26.33	30
64QAM	21.64	23.11	23.95	25.42	30
256QAM	19.61	19.93	21.92	22.24	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	24.02	24.37	24.62
	1	24	24.27	24.70	24.79
	1	49	24.14	24.78	24.85
	25	0	23.23	23.74	23.75
	25	12	23.36	23.65	23.72
	25	25	23.38	23.87	23.91
	50	0	23.26	23.77	23.70
16QAM	1	0	23.98	23.97	23.93
	1	24	23.97	23.86	23.96
	1	49	23.87	23.95	23.87
	25	0	22.71	22.68	22.75
	25	12	22.83	22.83	22.80
	25	25	22.84	22.85	22.92
	50	0	22.86	22.80	22.80
64QAM	1	0	22.91	22.93	22.95
	1	24	23.03	22.99	23.12
	1	49	23.03	23.07	23.15
	25	0	21.68	21.70	21.71
	25	12	21.74	21.72	21.85
	25	25	21.88	21.84	21.85
	50	0	21.70	21.74	21.73
256QAM	1	0	19.75	19.76	19.76
	1	24	19.88	19.89	19.88
	1	49	19.87	19.82	19.96
	25	0	19.61	19.63	19.75
	25	12	19.78	19.74	19.79
	25	25	19.79	19.67	19.86
	50	0	19.75	19.75	19.81

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.23	24.85	25.54	27.16	30
16QAM	22.68	24.24	24.99	26.55	30
64QAM	21.68	23.15	23.99	25.46	30
256QAM	19.61	19.96	21.92	22.27	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	24.03	24.34	24.68
	1	37	24.28	24.75	24.72
	1	74	24.18	24.77	24.81
	36	0	23.14	23.71	23.69
	36	19	23.28	23.65	23.82
	36	39	23.34	23.84	23.89
	75	0	23.36	23.76	23.69
16QAM	1	0	24.02	23.91	23.98
	1	37	23.98	23.91	23.98
	1	74	23.84	23.81	23.91
	36	0	22.65	22.67	22.71
	36	19	22.83	22.82	22.86
	36	39	22.83	22.90	22.87
	75	0	22.79	22.79	22.84
64QAM	1	0	22.95	22.90	22.91
	1	37	23.05	23.02	23.10
	1	74	23.04	23.07	23.13
	36	0	21.69	21.67	21.72
	36	19	21.75	21.70	21.81
	36	39	21.90	21.84	21.89
	75	0	21.72	21.69	21.73
256QAM	1	0	19.78	19.69	19.82
	1	37	19.84	19.83	19.82
	1	74	19.86	19.80	19.92
	36	0	19.58	19.71	19.65
	36	19	19.70	19.69	19.72
	36	39	19.78	19.71	19.80
	75	0	19.76	19.77	19.80

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.14	24.81	25.45	27.12	30
16QAM	22.65	24.02	24.96	26.33	30
64QAM	21.67	23.13	23.98	25.44	30
256QAM	19.58	19.92	21.89	22.23	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	24.41	24.70
	1	50	24.28	24.80	24.81
	1	99	24.23	24.80	24.87
	50	0	23.24	23.76	23.76
	50	25	23.36	23.72	23.82
	50	50	23.39	23.94	23.95
	100	0	23.36	23.79	23.79
16QAM	1	0	24.02	23.98	24.03
	1	50	24.02	23.95	24.05
	1	99	23.23	23.24	23.25
	50	0	22.74	22.73	22.75
	50	25	22.86	22.83	22.87
	50	50	22.86	22.94	22.94
	100	0	22.86	22.86	22.86
64QAM	1	0	22.95	22.95	22.97
	1	50	23.12	23.06	23.14
	1	99	23.07	23.09	23.16
	50	0	21.71	21.76	21.79
	50	25	21.75	21.78	21.85
	50	50	21.91	21.88	21.91
	100	0	21.78	21.76	21.81
256QAM	1	0	19.79	19.77	19.83
	1	50	19.90	19.92	19.92
	1	99	19.89	19.89	19.96
	50	0	19.66	19.72	19.75
	50	25	19.80	19.76	19.82
	50	50	19.80	19.77	19.87
	100	0	19.82	19.82	19.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.24	24.87	25.55	27.18	30
16QAM	22.73	24.25	25.04	26.56	30
64QAM	21.71	23.16	24.02	25.47	30
256QAM	19.66	19.96	21.97	22.27	30

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

7.1.16 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	24.46	24.38	24.39
	1	12	24.30	24.24	24.24
	1	24	24.06	24.04	24.08
	12	0	23.64	23.51	23.55
	12	6	23.49	23.52	23.44
	12	13	23.32	23.25	23.21
	25	0	23.49	23.36	23.26
16QAM	1	0	23.71	23.59	23.50
	1	12	23.69	23.56	23.50
	1	24	23.41	23.33	23.22
	12	0	22.51	22.53	22.53
	12	6	22.50	22.53	22.50
	12	13	22.41	22.27	22.19
	25	0	22.54	22.52	22.51
64QAM	1	0	22.66	22.63	22.59
	1	12	22.82	22.79	22.67
	1	24	22.57	22.60	22.53
	12	0	21.32	21.25	21.22
	12	6	21.62	21.55	21.51
	12	13	21.52	21.41	21.36
	25	0	21.36	21.32	21.24
256QAM	1	0	19.55	19.49	19.36
	1	12	19.68	19.74	19.69
	1	24	19.36	19.35	19.23
	12	0	19.52	19.50	19.39
	12	6	19.49	19.49	19.33
	12	13	19.39	19.39	19.30
	25	0	19.49	19.48	19.40

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.46	21.59	22.84	44.77
16QAM	22.19	23.71	20.57	22.09	44.77
64QAM	21.22	22.82	19.60	21.20	44.77
256QAM	19.23	19.74	17.61	18.12	44.77

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	24.41	24.43	24.38
	1	24	24.35	24.30	24.20
	1	49	24.04	24.07	24.12
	25	0	23.60	23.55	23.58
	25	12	23.47	23.44	23.48
	25	25	23.33	23.25	23.26
	50	0	23.43	23.43	23.33
16QAM	1	0	23.68	23.61	23.56
	1	24	23.65	23.59	23.56
	1	49	23.41	23.29	23.24
	25	0	22.49	22.48	22.49
	25	12	22.58	22.48	22.43
	25	25	22.32	22.32	22.26
	50	0	22.59	22.51	22.55
64QAM	1	0	22.61	22.66	22.57
	1	24	22.83	22.76	22.70
	1	49	22.61	22.61	22.51
	25	0	21.22	21.23	21.19
	25	12	21.64	21.54	21.51
	25	25	21.56	21.38	21.34
	50	0	21.41	21.36	21.27
256QAM	1	0	19.56	19.44	19.41
	1	24	19.77	19.69	19.71
	1	49	19.34	19.36	19.24
	25	0	19.49	19.48	19.45
	25	12	19.43	19.49	19.34
	25	25	19.35	19.30	19.31
	50	0	19.56	19.45	19.48

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.43	21.63	22.81	44.77
16QAM	22.26	23.68	20.64	22.06	44.77
64QAM	21.19	22.83	19.57	21.21	44.77
256QAM	19.24	19.77	17.62	18.15	44.77

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	24.41	24.38	24.40
	1	37	24.37	24.23	24.18
	1	74	24.09	24.07	24.12
	36	0	23.57	23.50	23.60
	36	19	23.50	23.44	23.44
	36	39	23.37	23.28	23.21
	75	0	23.43	23.42	23.34
16QAM	1	0	23.64	23.60	23.59
	1	37	23.62	23.58	23.52
	1	74	23.43	23.36	23.23
	36	0	22.57	22.49	22.50
	36	19	22.59	22.51	22.50
	36	39	22.38	22.34	22.18
	75	0	22.55	22.51	22.50
64QAM	1	0	22.61	22.60	22.66
	1	37	22.78	22.72	22.67
	1	74	22.62	22.52	22.55
	36	0	21.23	21.20	21.21
	36	19	21.58	21.54	21.59
	36	39	21.54	21.43	21.37
	75	0	21.41	21.33	21.22
256QAM	1	0	19.50	19.46	19.43
	1	37	19.67	19.70	19.70
	1	74	19.36	19.33	19.29
	36	0	19.54	19.49	19.41
	36	19	19.44	19.45	19.36
	36	39	19.35	19.29	19.32
	75	0	19.56	19.45	19.46

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.41	21.59	22.79	44.77
16QAM	22.18	23.64	20.56	22.02	44.77
64QAM	21.20	22.78	19.58	21.16	44.77
256QAM	19.29	19.70	17.67	18.08	44.77

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	24.48	24.46	24.41
	1	50	24.38	24.30	24.24
	1	99	24.10	24.07	23.98
	50	0	23.66	23.60	23.60
	50	25	23.57	23.52	23.48
	50	50	23.40	23.35	23.26
	100	0	23.51	23.44	23.35
16QAM	1	0	23.74	23.65	23.59
	1	50	23.72	23.65	23.59
	1	99	23.46	23.36	23.27
	50	0	22.57	22.55	22.55
	50	25	22.60	22.54	22.53
	50	50	22.41	22.36	22.26
	100	0	22.61	22.60	22.60
64QAM	1	0	22.67	22.66	22.66
	1	50	22.86	22.79	22.76
	1	99	22.63	22.61	22.60
	50	0	21.32	21.27	21.26
	50	25	21.64	21.63	21.59
	50	50	21.57	21.48	21.43
	100	0	21.41	21.38	21.29
256QAM	1	0	19.57	19.53	19.43
	1	50	19.77	19.76	19.73
	1	99	19.38	19.36	19.29
	50	0	19.58	19.51	19.46
	50	25	19.49	19.49	19.39
	50	50	19.41	19.39	19.34
	100	0	19.59	19.55	19.49

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.26	24.48	21.64	22.86	44.77
16QAM	22.26	23.74	20.64	22.12	44.77
64QAM	21.26	22.86	19.64	21.24	44.77
256QAM	19.29	19.77	17.67	18.15	44.77

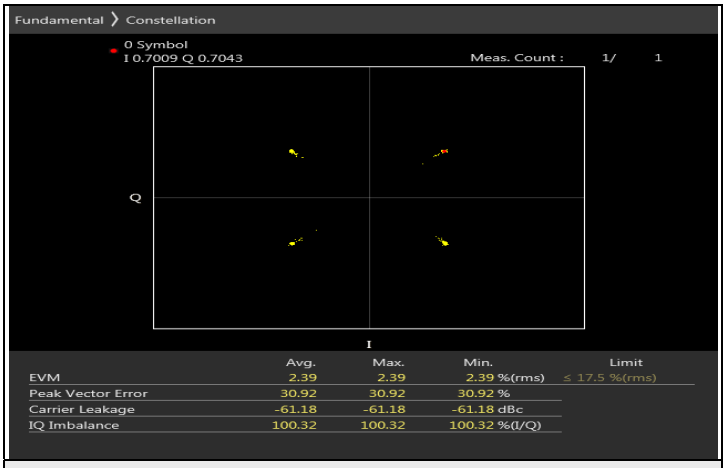
Note: ERP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)-2.15

7.2 Modulation Characteristics

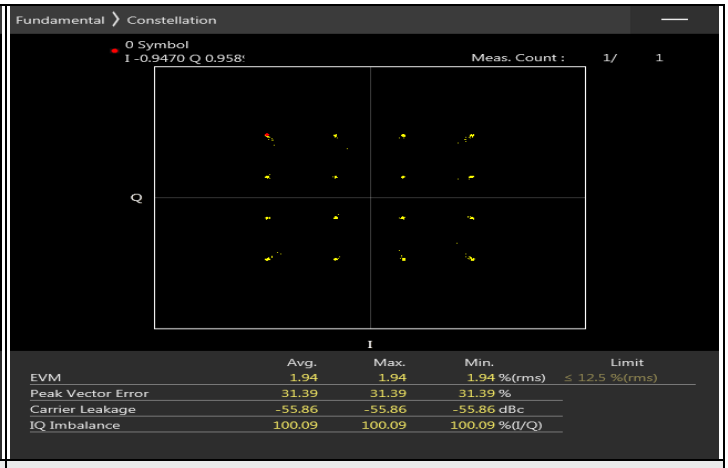
Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang

7.2.1 LTE Band 2

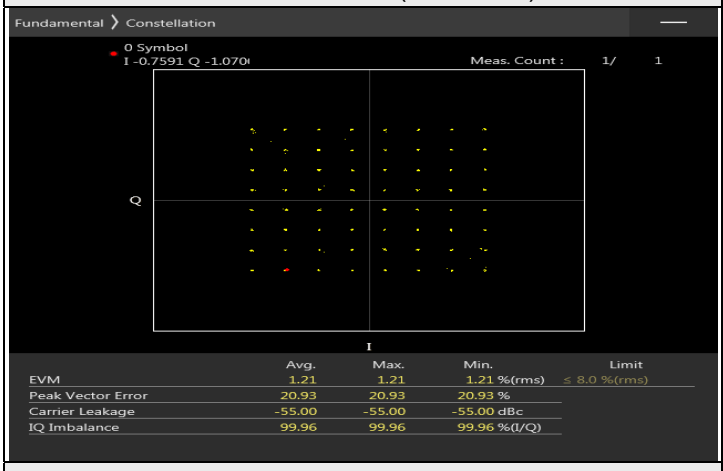
LTE Band 2, Channel Bandwidth: 20 MHz



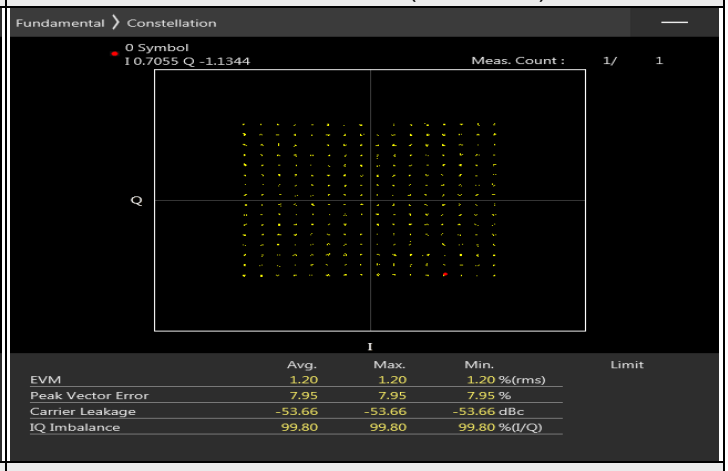
QPSK CH 18900 (1880 MHz)



16QAM CH 18900 (1880 MHz)



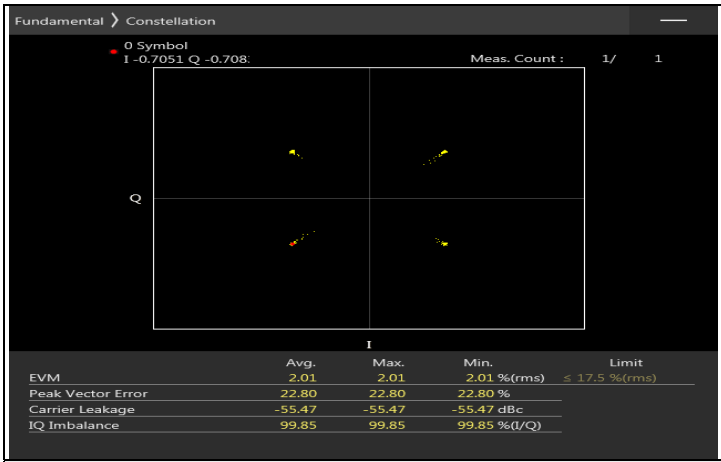
64QAM CH 18900 (1880 MHz)



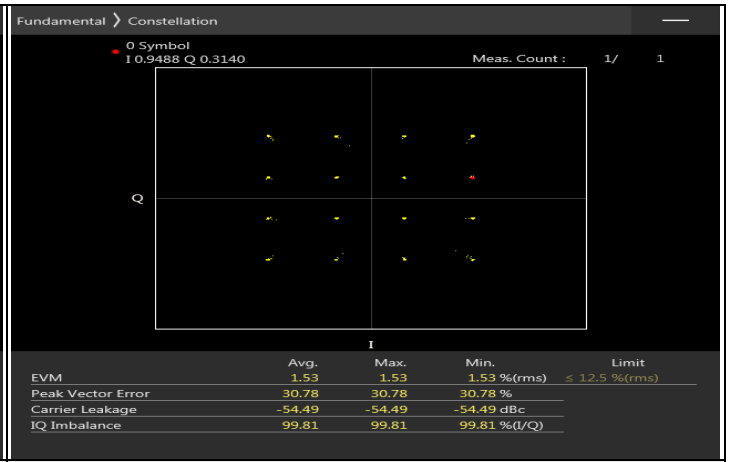
256QAM CH 18900 (1880 MHz)

7.2.2 LTE Band 4

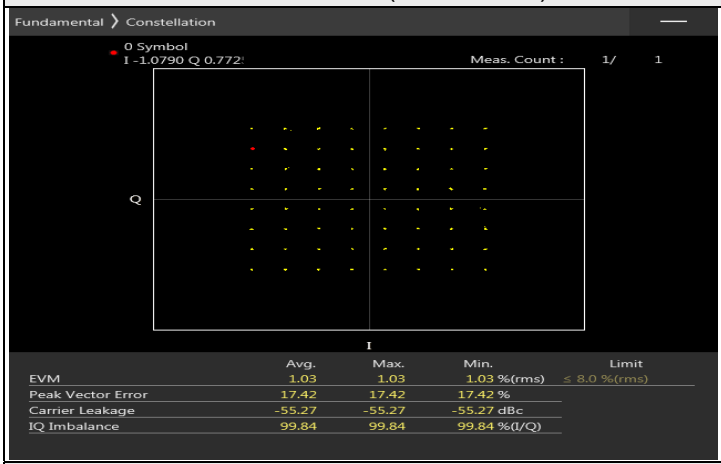
LTE Band 4, Channel Bandwidth: 20 MHz



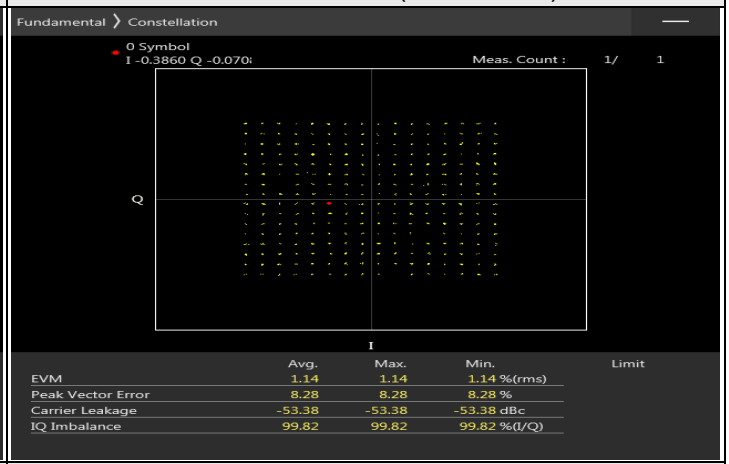
QPSK CH 20175 (1732.5 MHz)



16QAM CH 20175 (1732.5 MHz)



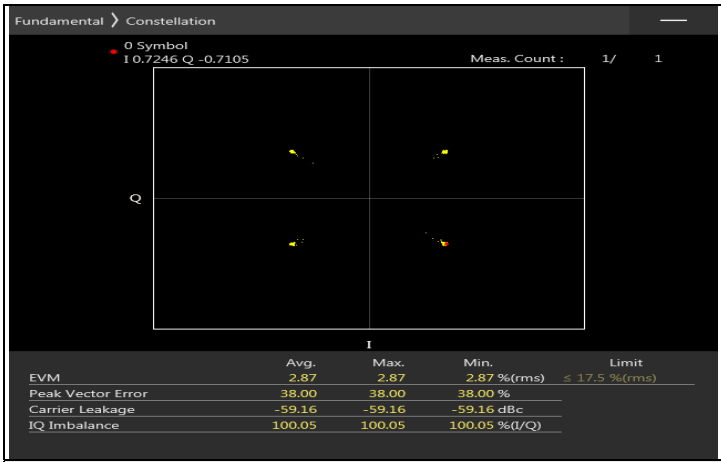
64QAM CH 20175 (1732.5 MHz)



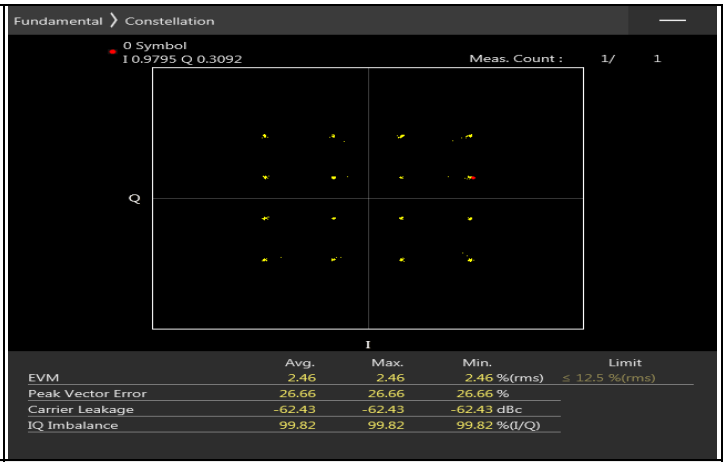
256QAM CH 20175 (1732.5 MHz)

7.2.3 LTE Band 5

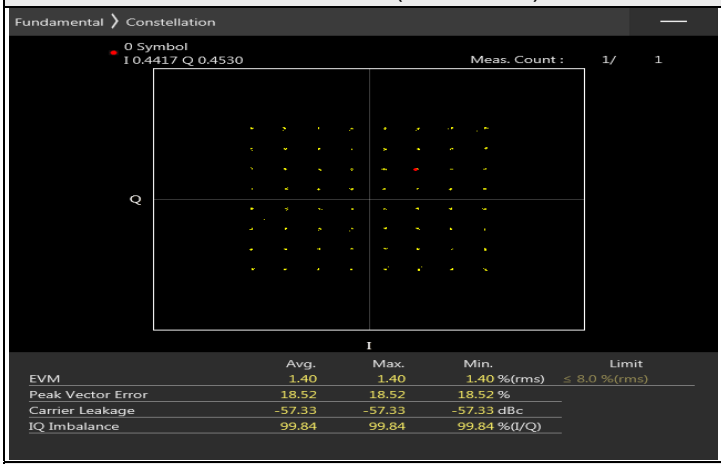
LTE Band 5, Channel Bandwidth: 10 MHz



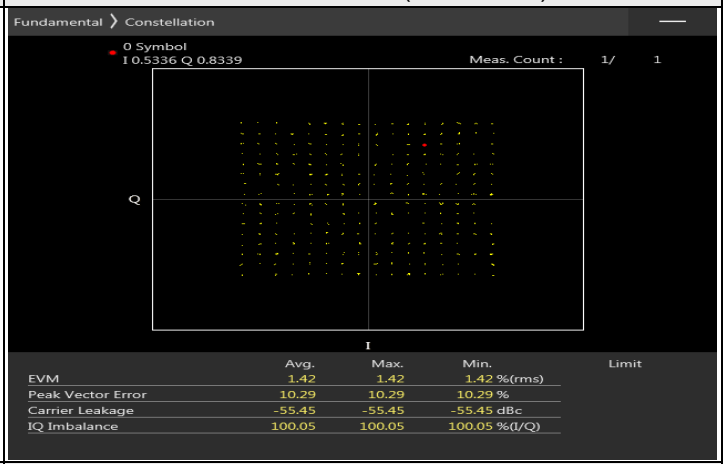
QPSK CH 20525 (836.5 MHz)



16QAM CH 20525 (836.5 MHz)



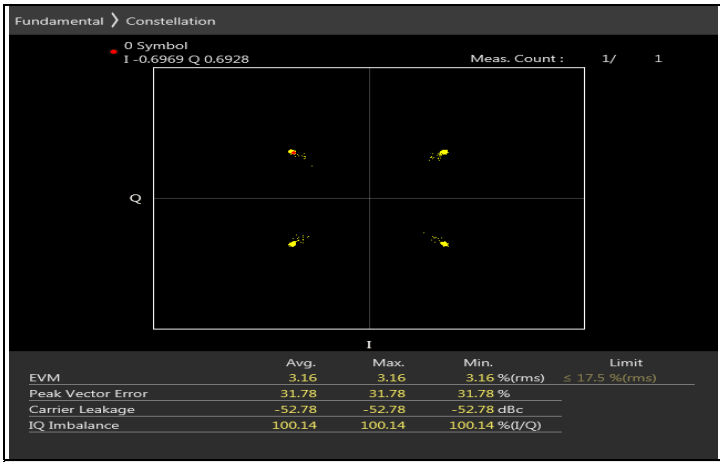
64QAM CH 20525 (836.5 MHz)



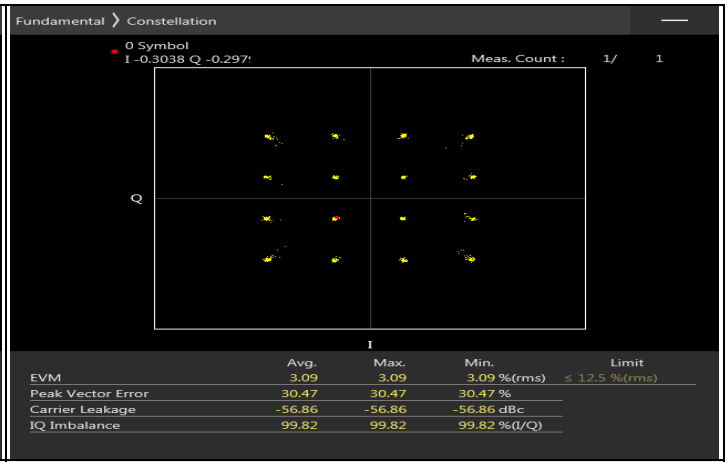
256QAM CH 20525 (836.5 MHz)

7.2.4 LTE Band 7

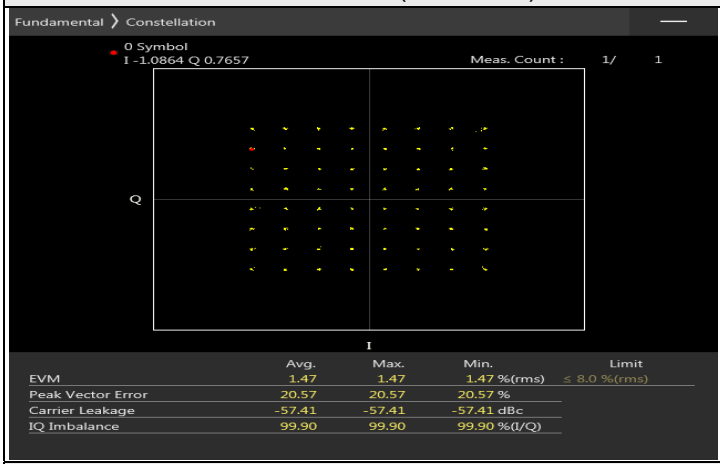
LTE Band 7, Channel Bandwidth: 20 MHz



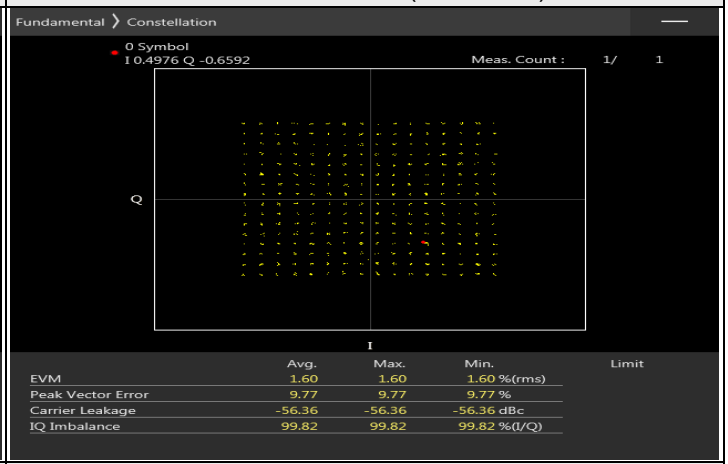
QPSK CH 21100 (2535 MHz)



16QAM CH 21100 (2535 MHz)



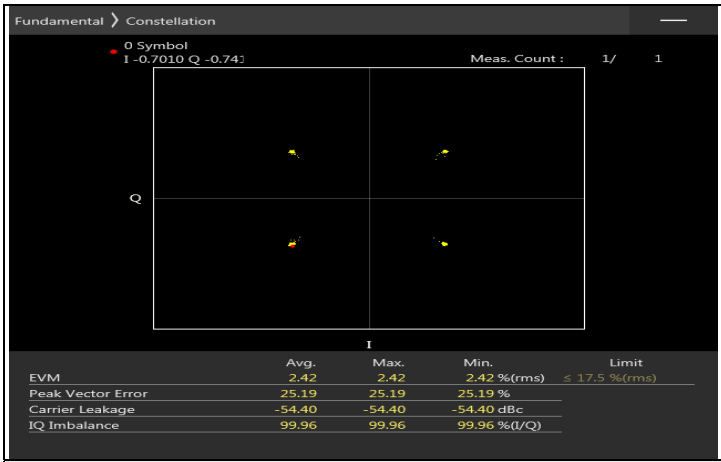
64QAM CH 21100 (2535 MHz)



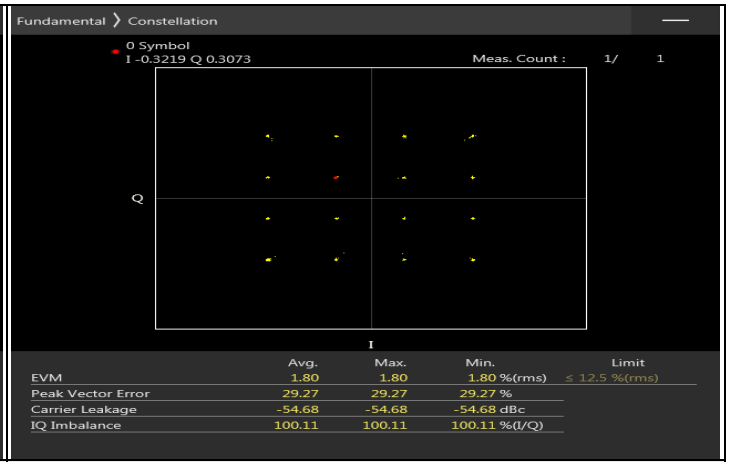
256QAM CH 21100 (2535 MHz)

7.2.5 LTE Band 12

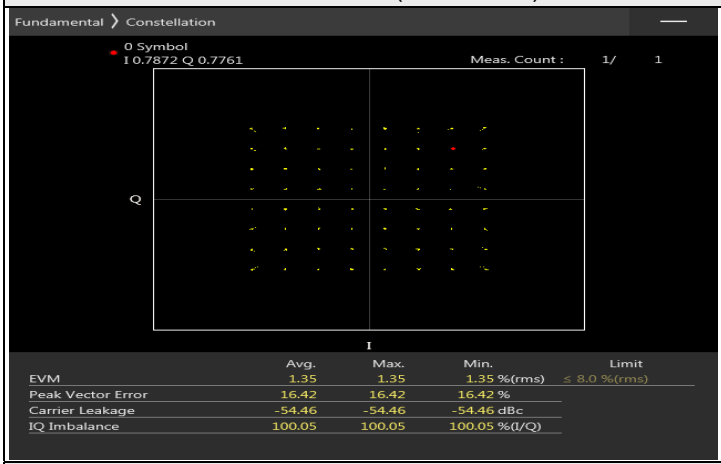
LTE Band 12, Channel Bandwidth: 10 MHz



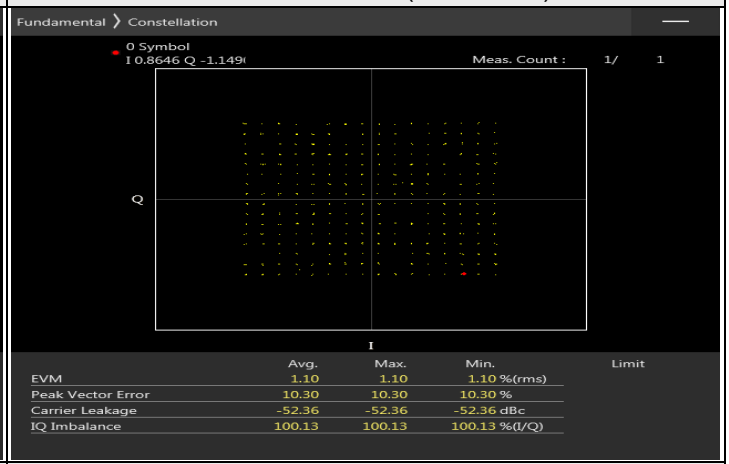
QPSK CH 23095 (707.5 MHz)



16QAM CH 23095 (707.5 MHz)



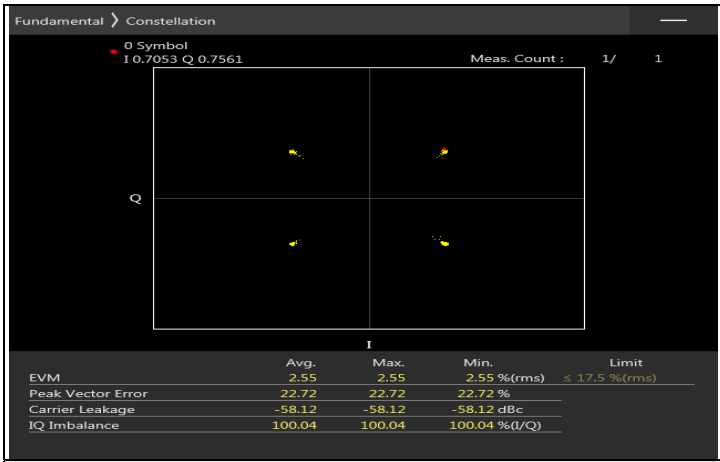
64QAM CH 23095 (707.5 MHz)



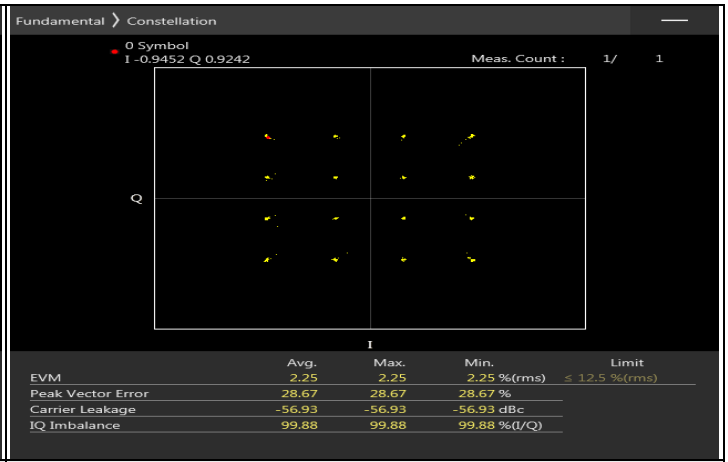
256QAM CH 23095 (707.5 MHz)

7.2.6 LTE Band 13

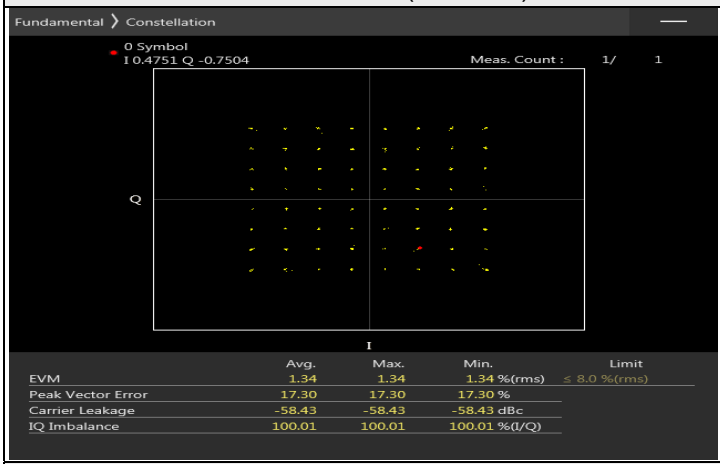
LTE Band 13, Channel Bandwidth: 10 MHz



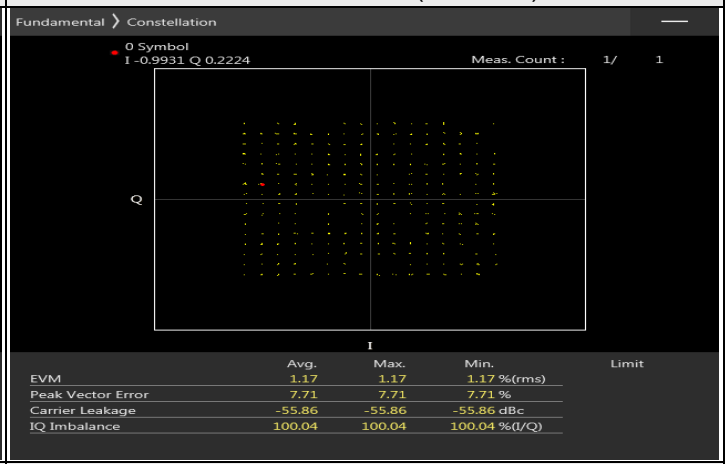
QPSK CH 23230 (782 MHz)



16QAM CH 23230 (782 MHz)



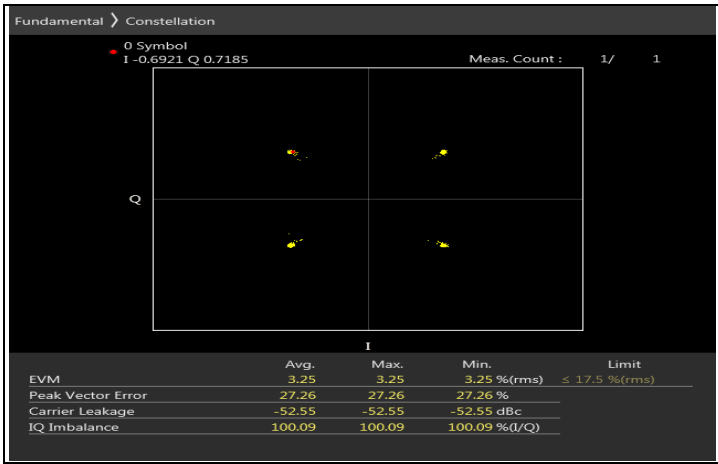
64QAM CH 23230 (782 MHz)



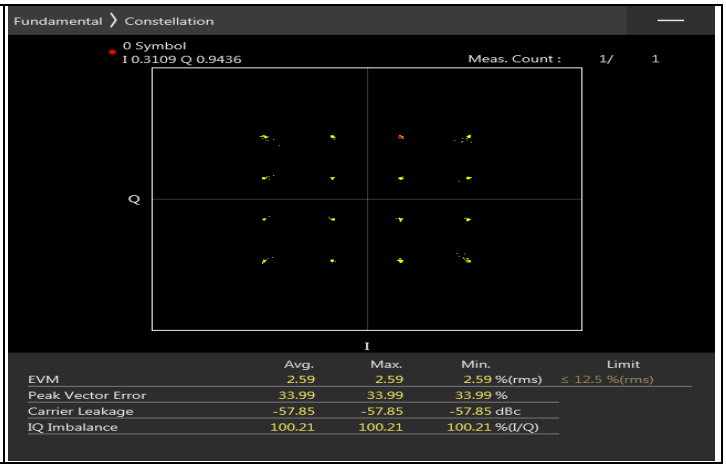
256QAM CH 23230 (782 MHz)

7.2.7 LTE Band 14

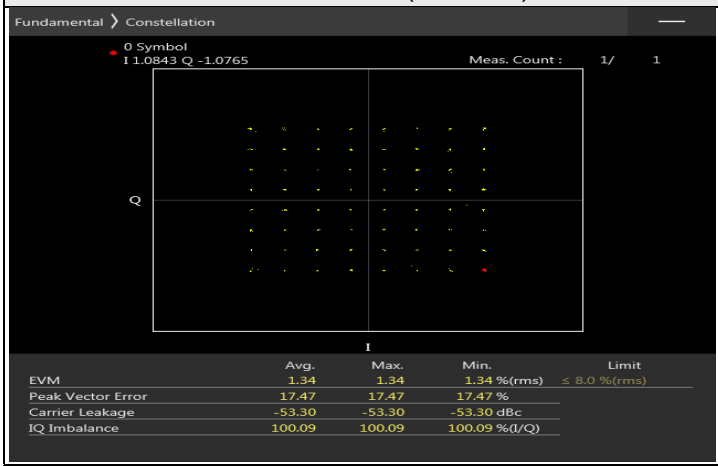
LTE Band 14, Channel Bandwidth: 10 MHz



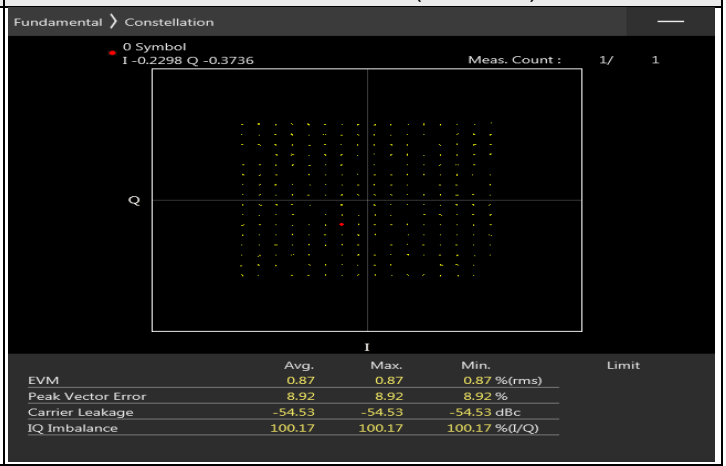
QPSK CH 23330 (793 MHz)



16QAM CH 23330 (793 MHz)



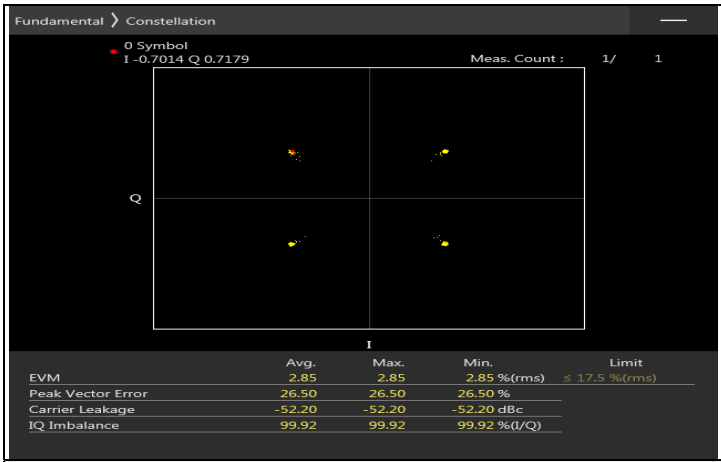
64QAM CH 23330 (793 MHz)



256QAM CH 23330 (793 MHz)

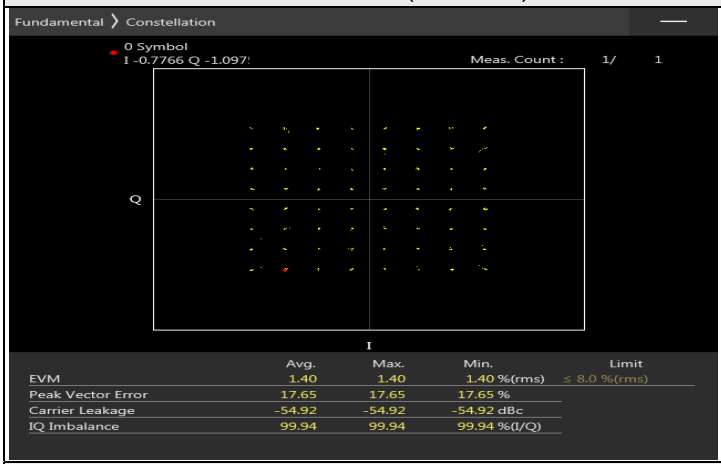
7.2.8 LTE Band 17

LTE Band 17, Channel Bandwidth: 10 MHz

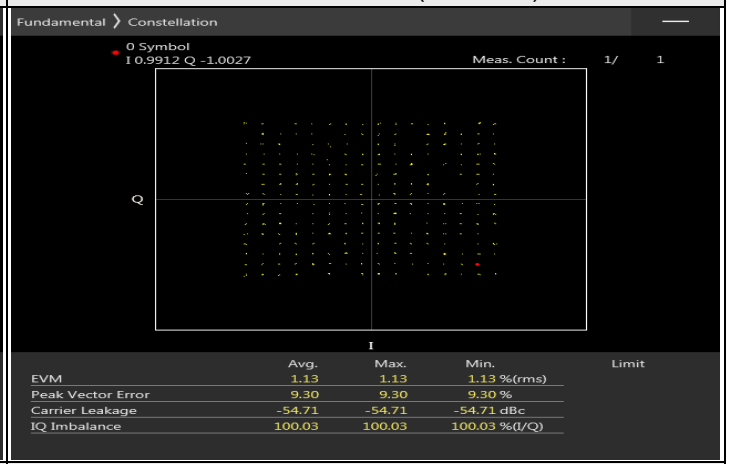


QPSK CH 23790 (710 MHz)

16QAM CH 23790 (710 MHz)



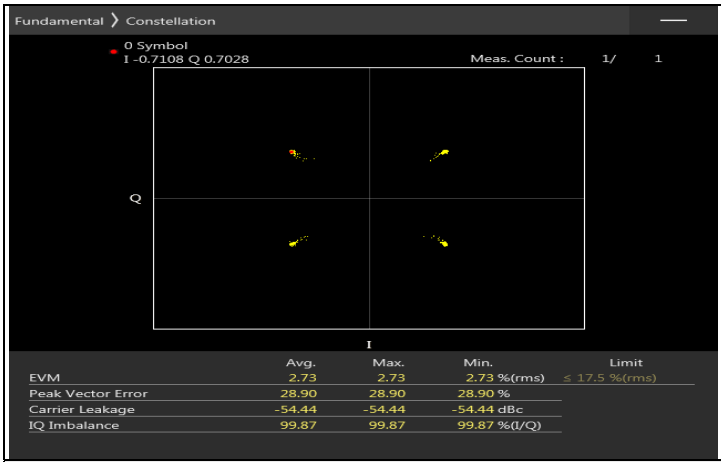
64QAM CH 23790 (710 MHz)



256QAM CH 23790 (710 MHz)

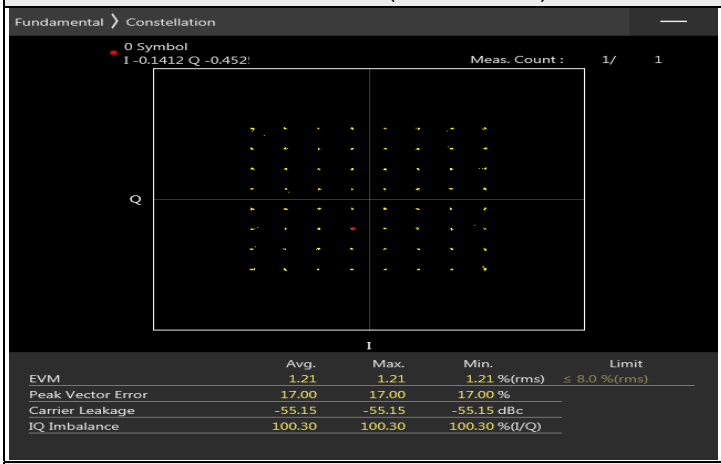
7.2.9 LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz

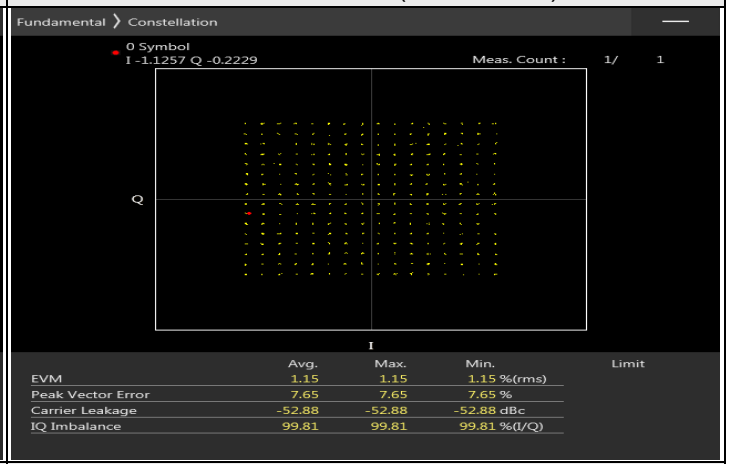


QPSK CH 26365 (1882.5 MHz)

16QAM CH 26365 (1882.5 MHz)



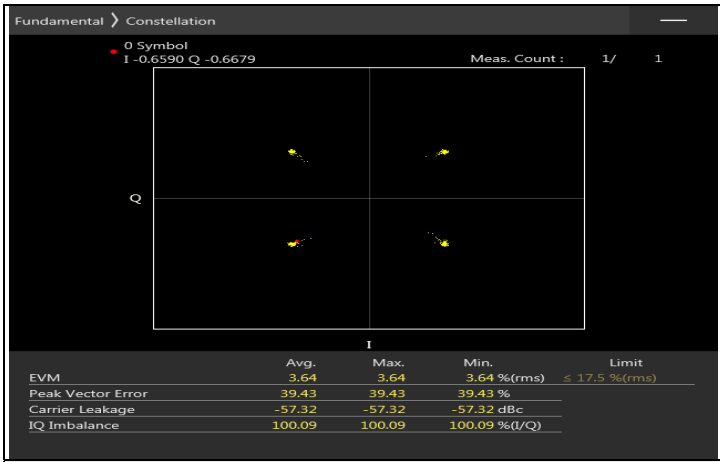
64QAM CH 26365 (1882.5 MHz)



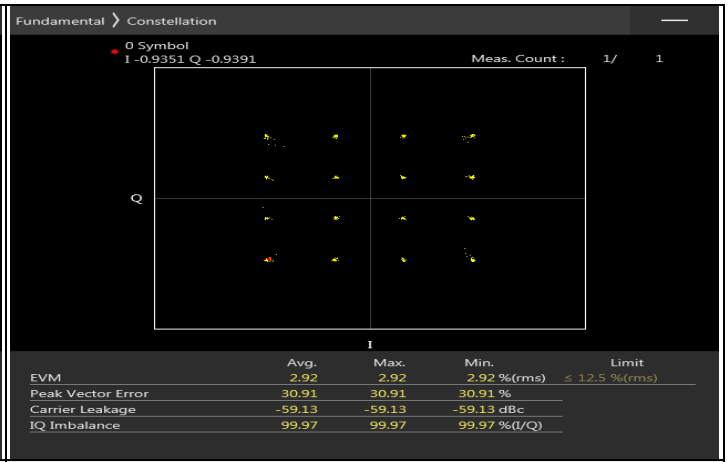
256QAM CH 26365 (1882.5 MHz)

7.2.10 LTE Band 26 (814 MHz ~ 824 MHz)

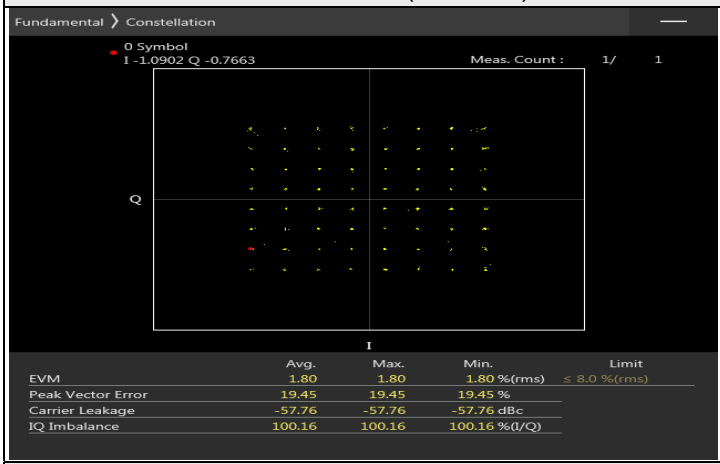
LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz



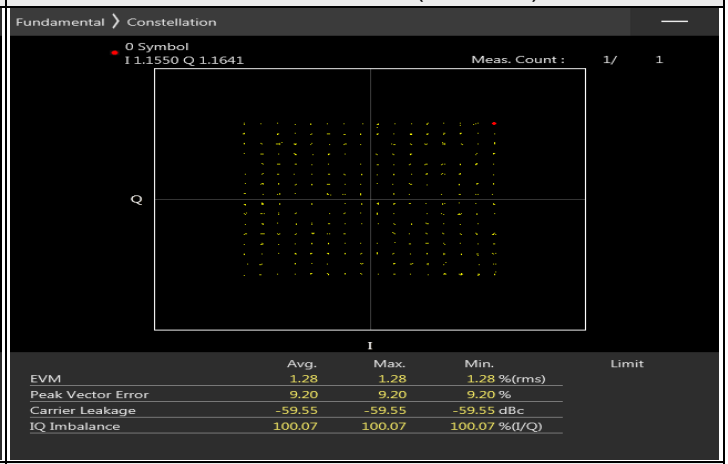
QPSK CH 26740 (819 MHz)



16QAM CH 26740 (819 MHz)



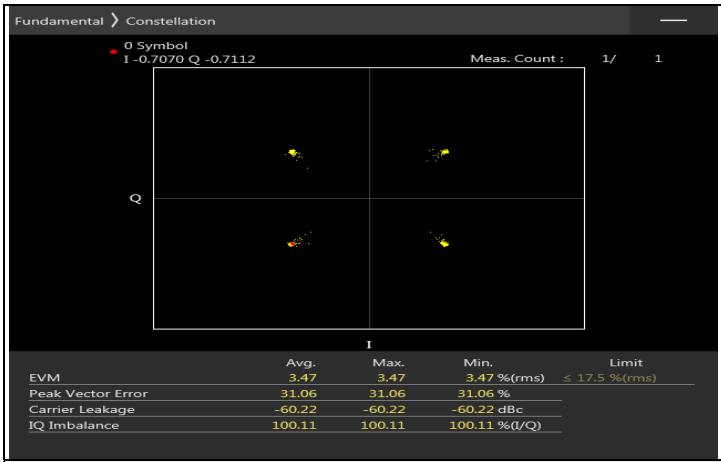
64QAM CH 26740 (819 MHz)



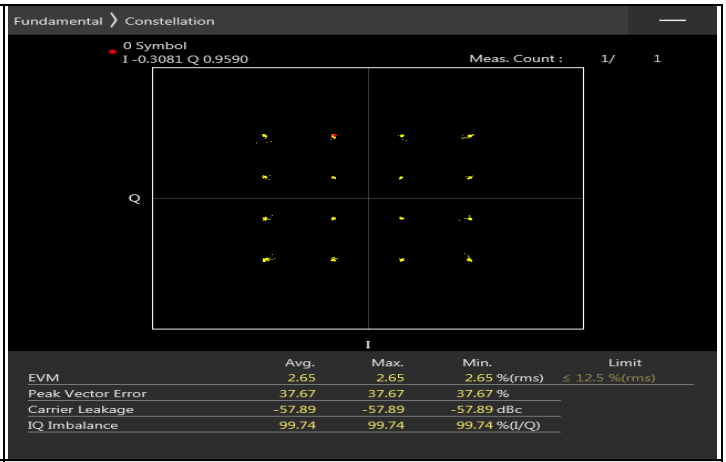
256QAM CH 26740 (819 MHz)

7.2.11 LTE Band 26 (824 MHz ~ 849 MHz)

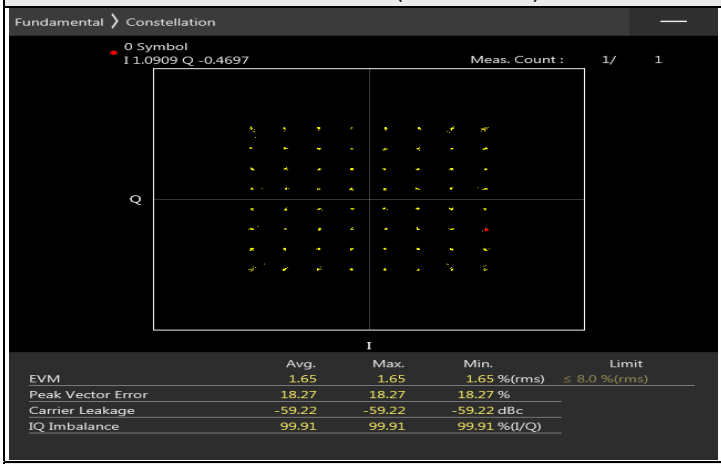
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz



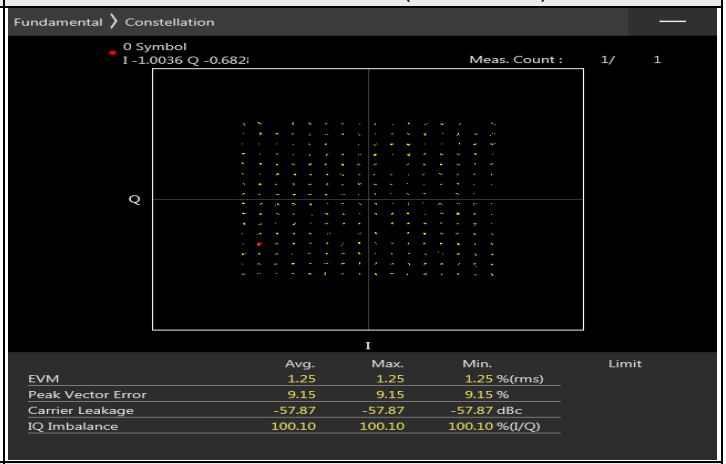
QPSK CH 26915 (836.5 MHz)



16QAM CH 26915 (836.5 MHz)



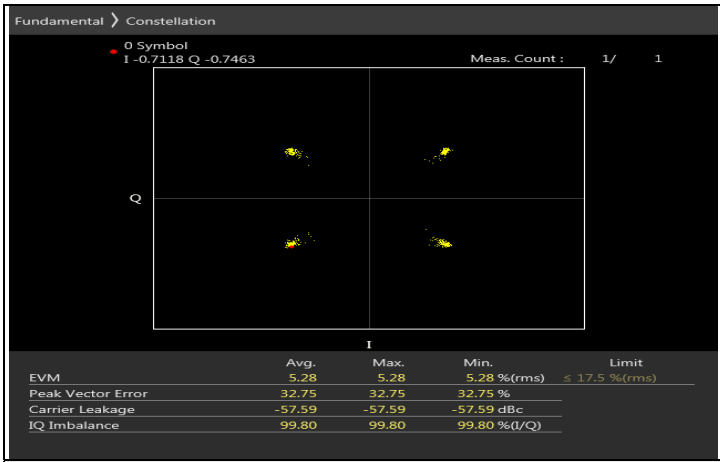
64QAM CH 26915 (836.5 MHz)



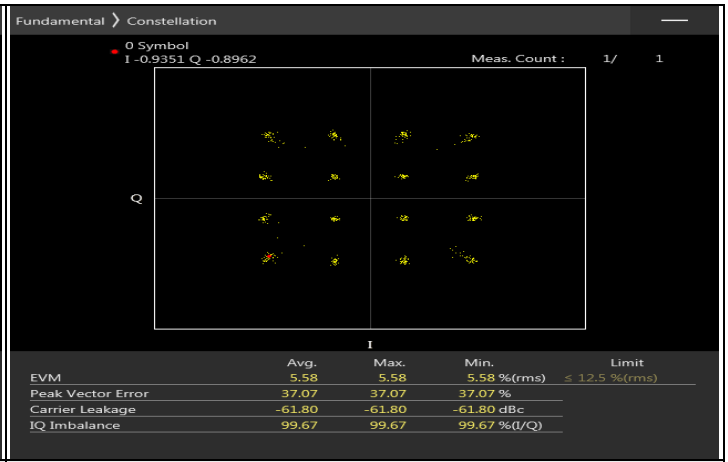
256QAM CH 26915 (836.5 MHz)

7.2.12 LTE Band 30

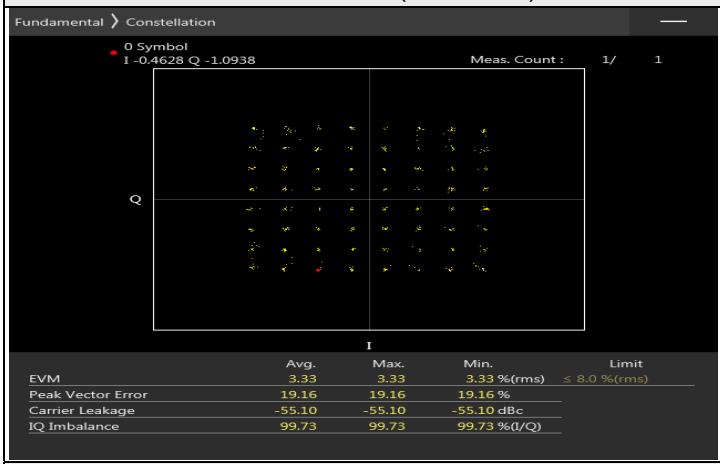
LTE Band 30, Channel Bandwidth: 10 MHz



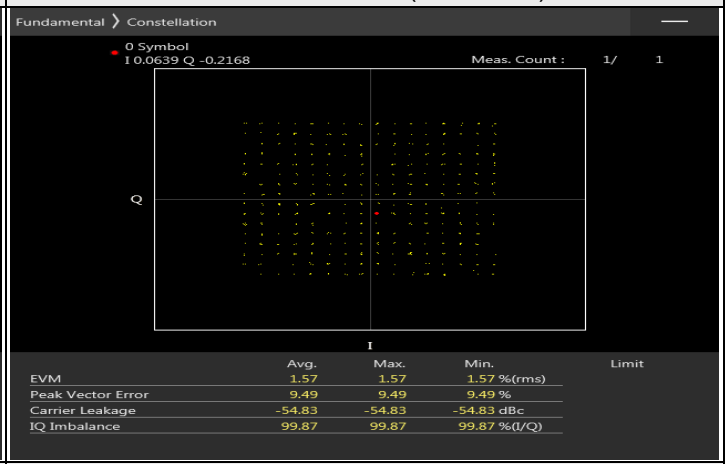
QPSK CH 27710 (2310 MHz)



16QAM CH 27710 (2310 MHz)



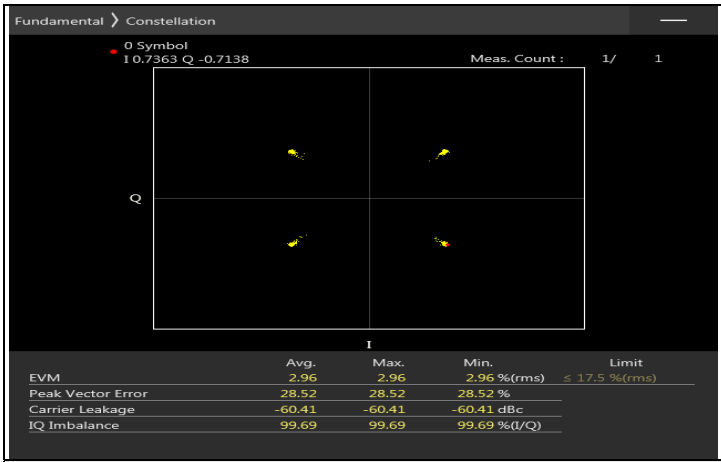
64QAM CH 27710 (2310 MHz)



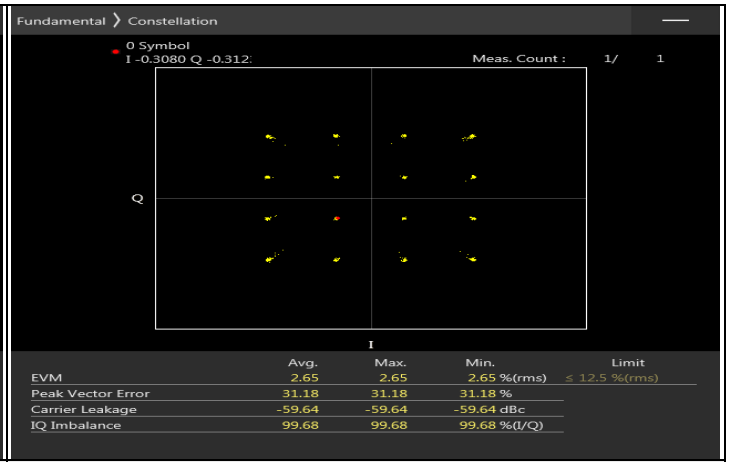
256QAM CH 27710 (2310 MHz)

7.2.13 LTE Band 41

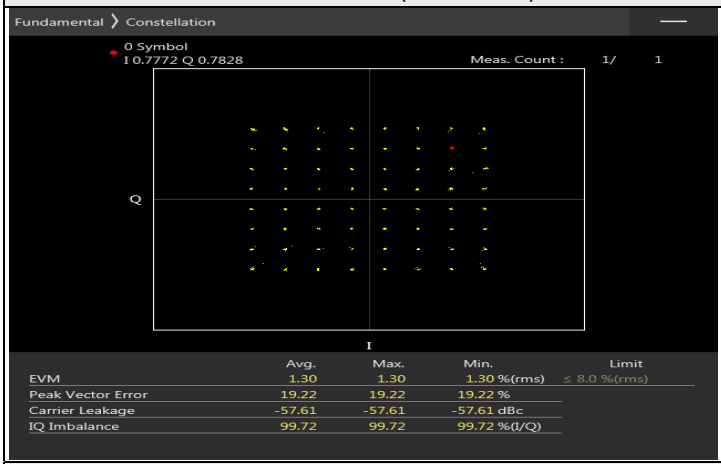
LTE Band 41, PC2, Channel Bandwidth: 20 MHz



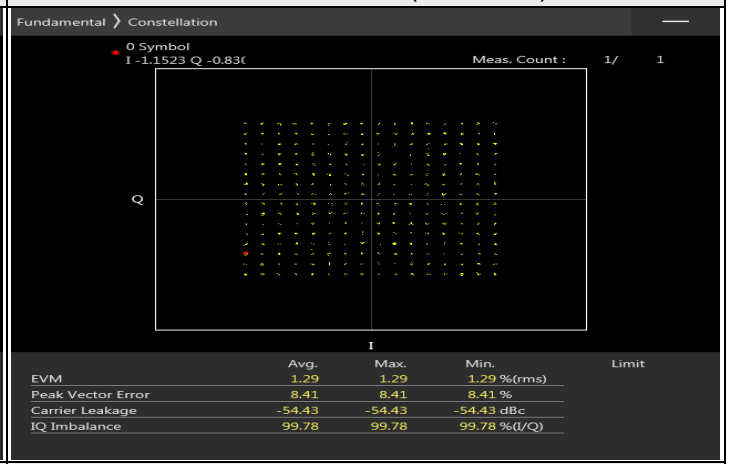
QPSK CH 40620 (2593 MHz)



16QAM CH 40620 (2593 MHz)



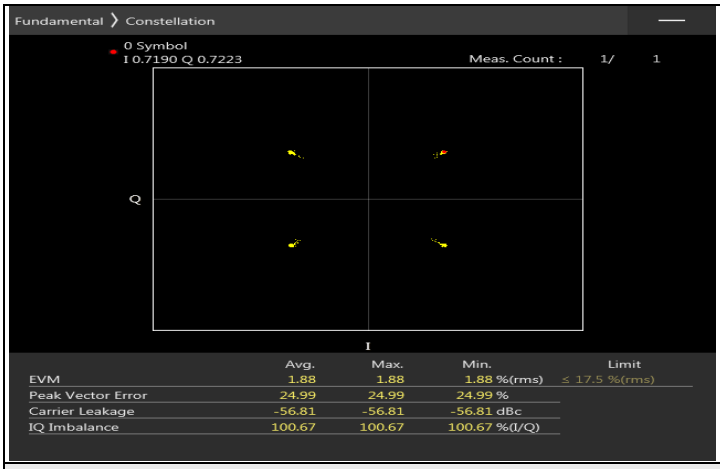
64QAM CH 40620 (2593 MHz)



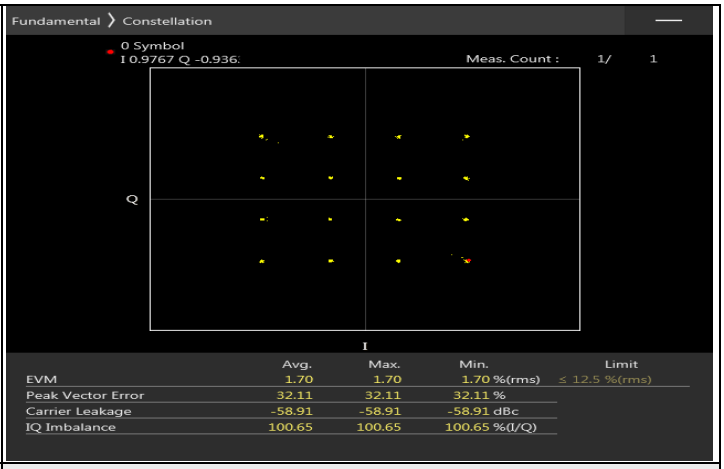
256QAM CH 40620 (2593 MHz)

7.2.14 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

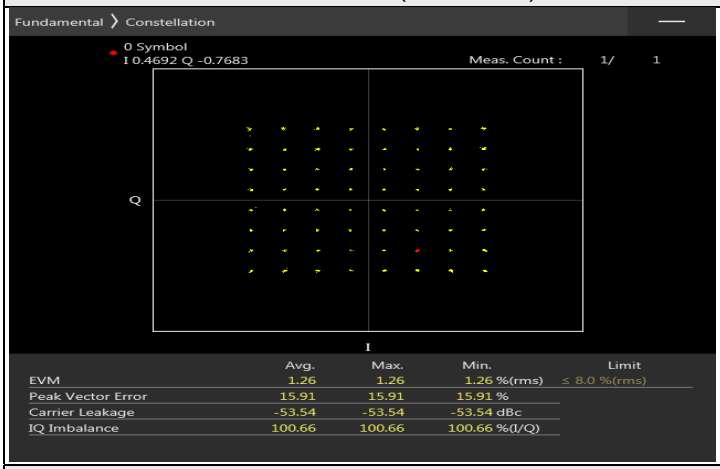
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz



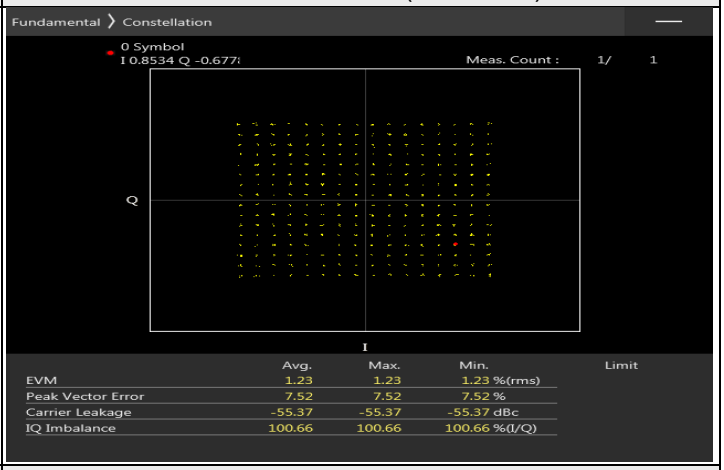
QPSK CH 42590 (3500 MHz)



16QAM CH 42590 (3500 MHz)



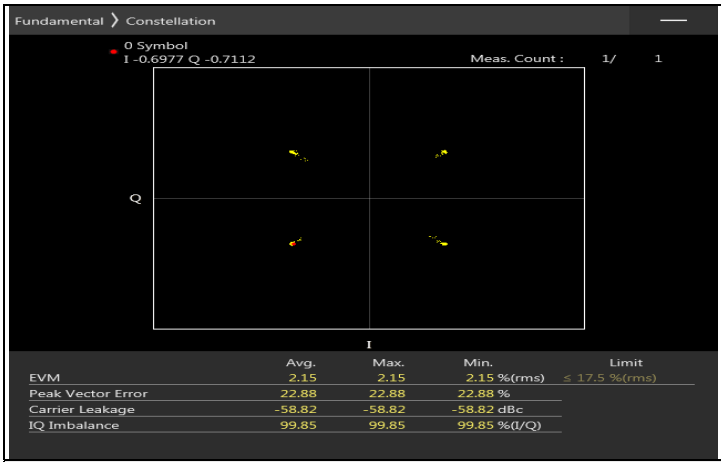
64QAM CH 42590 (3500 MHz)



256QAM CH 42590 (3500 MHz)

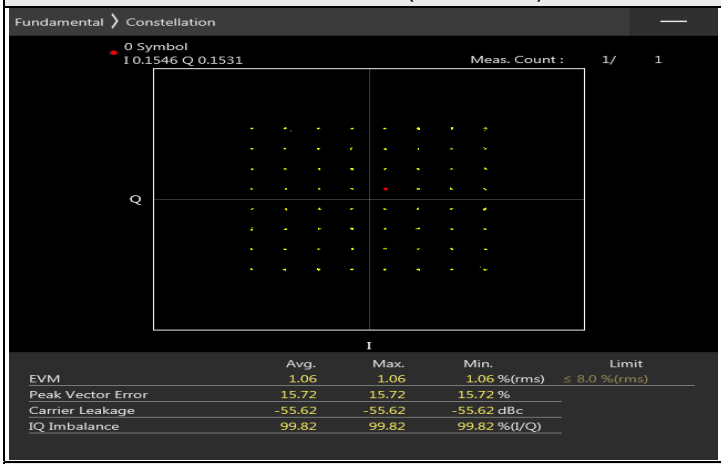
7.2.15 LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz

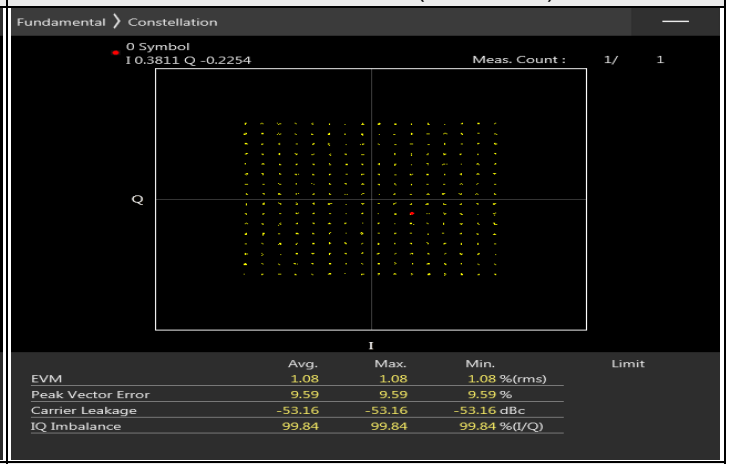


QPSK CH 132322 (1745 MHz)

16QAM CH 132322 (1745 MHz)



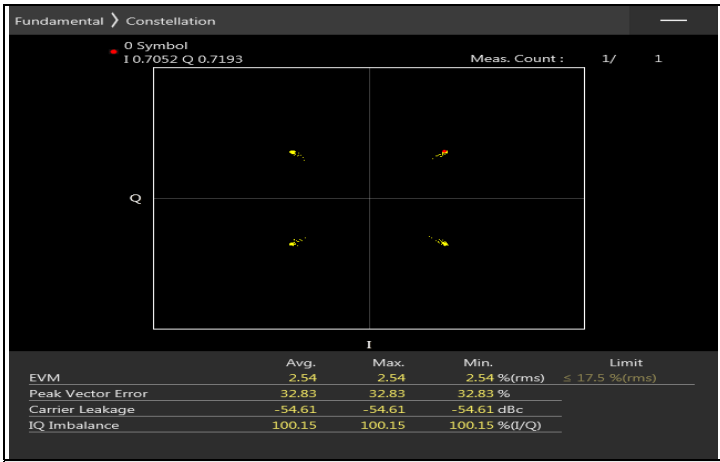
64QAM CH 132322 (1745 MHz)



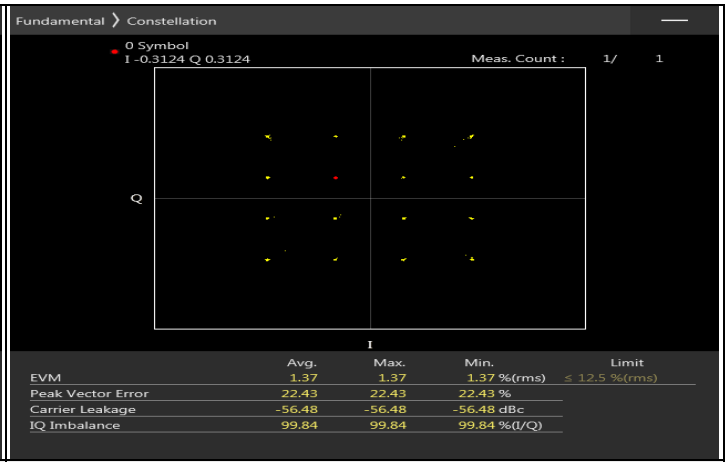
256QAM CH 132322 (1745 MHz)

7.2.16 LTE Band 71

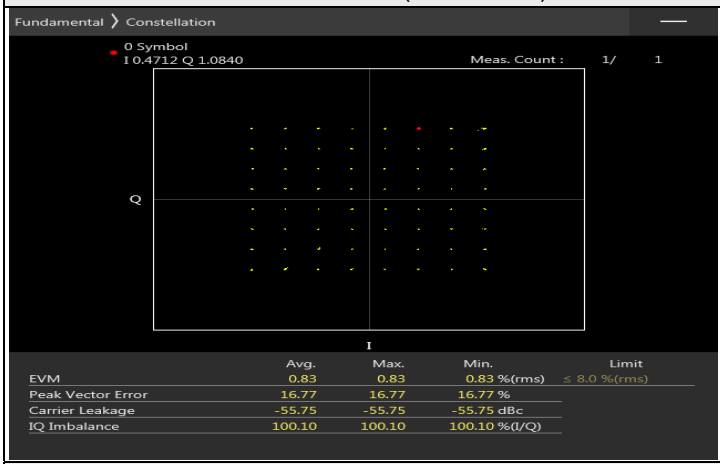
LTE Band 71, Channel Bandwidth: 20 MHz



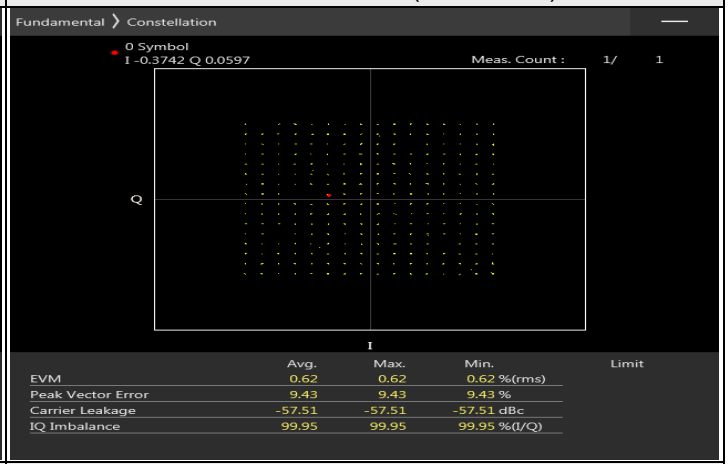
QPSK CH 133297 (680.5 MHz)



16QAM CH 133297 (680.5 MHz)



64QAM CH 133297 (680.5 MHz)



256QAM CH 133297 (680.5 MHz)

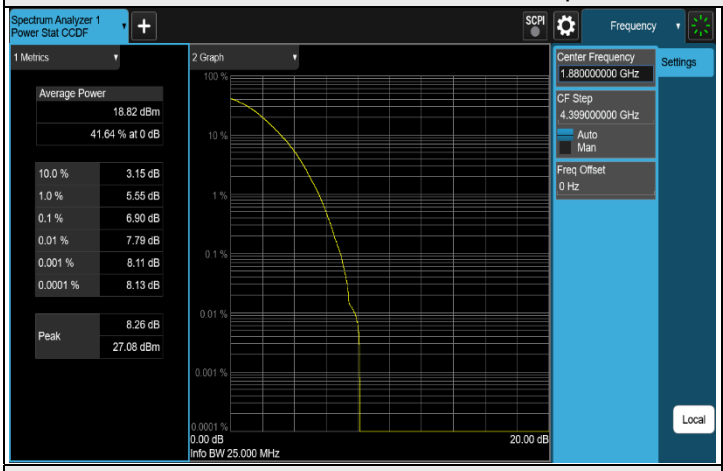
7.3 Peak to Average Ratio

Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang

7.3.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz

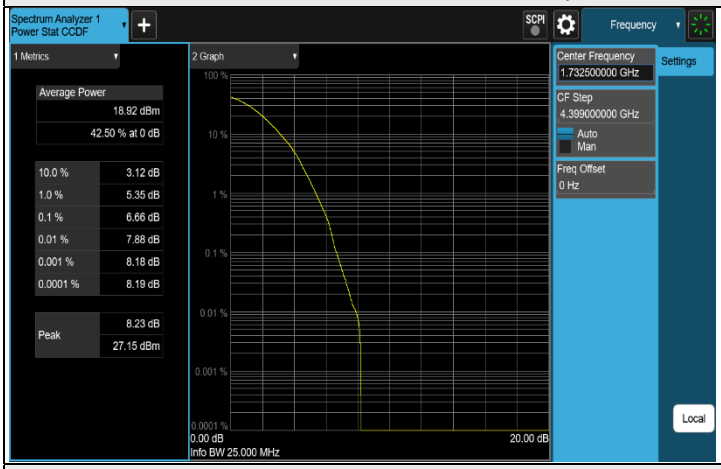
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18900	1880	3.59	13	PASS
16QAM	18900	1880	4.33	13	PASS
64QAM	18900	1880	5.34	13	PASS
256QAM	18900	1880	6.90	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 18900 (1880 MHz)	

7.3.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 20 MHz

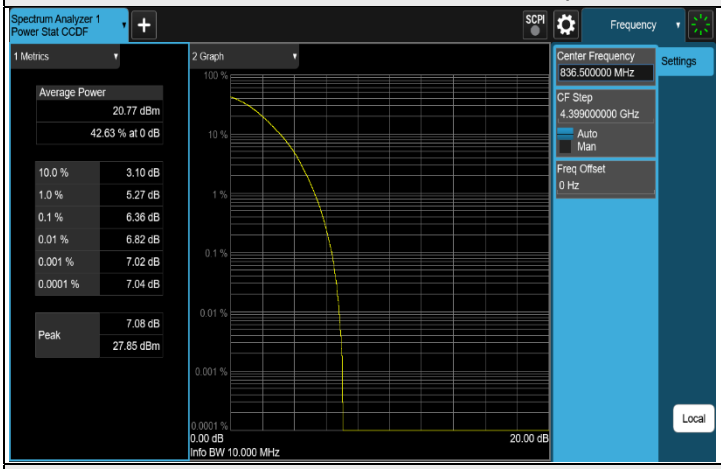
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20175	1732.5	3.95	13	PASS
16QAM	20175	1732.5	4.69	13	PASS
64QAM	20175	1732.5	5.73	13	PASS
256QAM	20175	1732.5	6.66	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 20175 (1732.5 MHz)	

7.3.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz

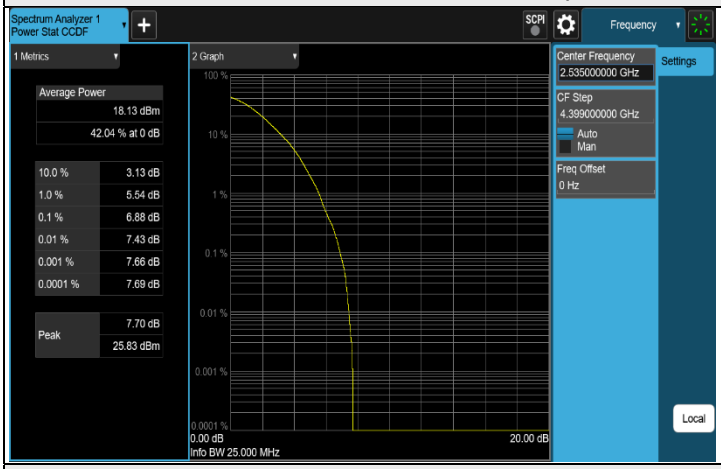
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20525	836.5	2.33	13	PASS
16QAM	20525	836.5	3.12	13	PASS
64QAM	20525	836.5	4.17	13	PASS
256QAM	20525	836.5	6.36	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 20525 (836.5 MHz)	

7.3.4 LTE Band 7

LTE Band 7, Channel Bandwidth: 20 MHz

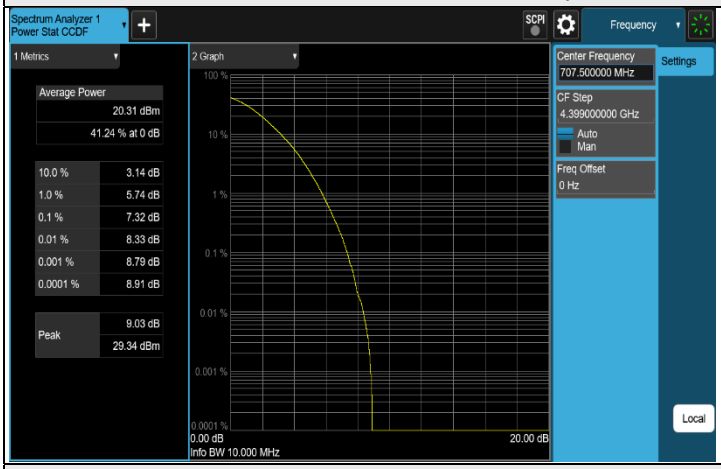
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	21100	2535	3.26	13	PASS
16QAM	21100	2535	3.98	13	PASS
64QAM	21100	2535	5.04	13	PASS
256QAM	21100	2535	6.88	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 21100 (2535 MHz)	

7.3.5 LTE Band 12

LTE Band 12, Channel Bandwidth: 10 MHz

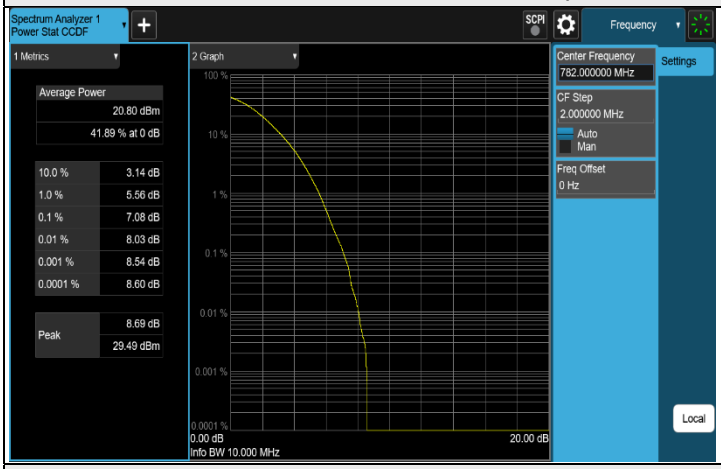
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23095	707.5	4.47	13	PASS
16QAM	23095	707.5	5.27	13	PASS
64QAM	23095	707.5	6.08	13	PASS
256QAM	23095	707.5	7.32	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 23095 (707.5 MHz)	

7.3.6 LTE Band 13

LTE Band 13, Channel Bandwidth: 10 MHz

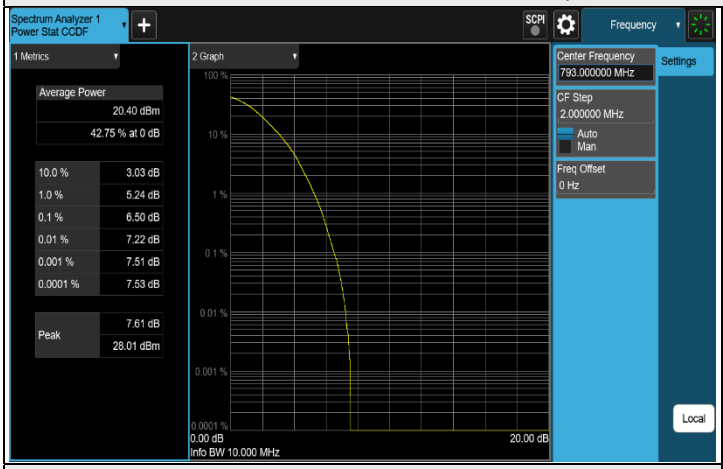
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23230	782	3.97	13	PASS
16QAM	23230	782	4.86	13	PASS
64QAM	23230	782	5.77	13	PASS
256QAM	23230	782	7.08	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 23230 (782 MHz)	

7.3.7 LTE Band 14

LTE Band 14, Channel Bandwidth: 10 MHz

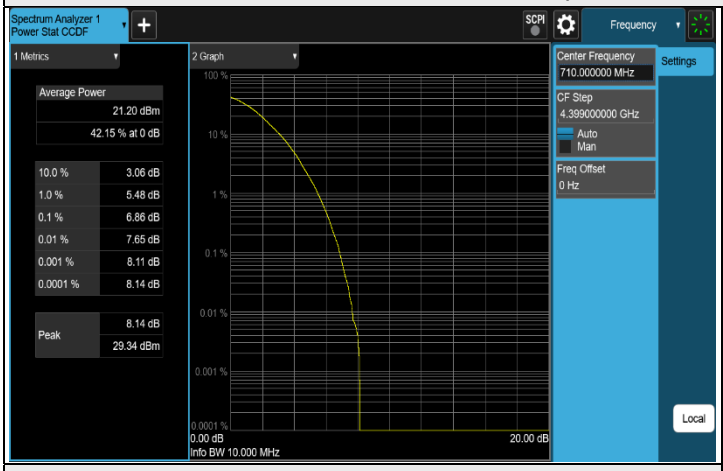
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23330	793	3.20	13	PASS
16QAM	23330	793	4.00	13	PASS
64QAM	23330	793	4.09	13	PASS
256QAM	23330	793	6.50	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 23330 (793 MHz)	

7.3.8 LTE Band 17

LTE Band 17, Channel Bandwidth: 10 MHz

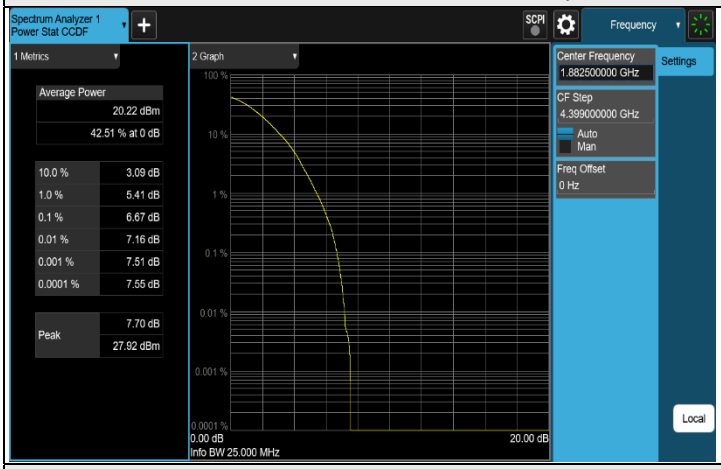
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23790	710	3.57	13	PASS
16QAM	23790	710	4.35	13	PASS
64QAM	23790	710	5.35	13	PASS
256QAM	23790	710	6.86	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 23790 (710 MHz)	

7.3.9 LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz

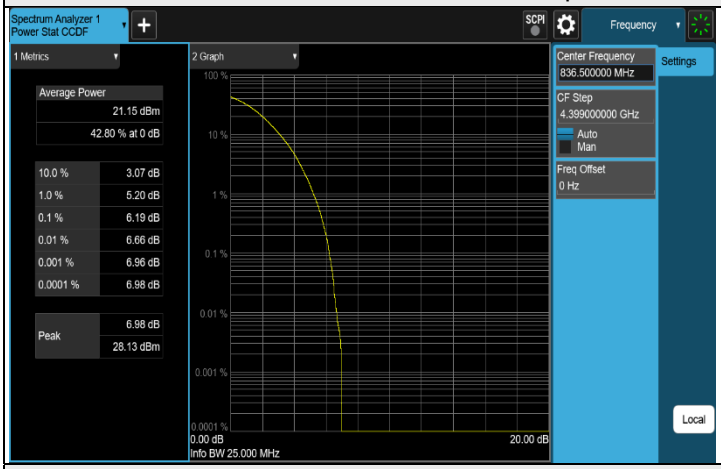
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26365	1882.5	3.57	13	PASS
16QAM	26365	1882.5	4.36	13	PASS
64QAM	26365	1882.5	5.43	13	PASS
256QAM	26365	1882.5	6.67	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 26365 (1882.5 MHz)	

7.3.10 LTE Band 26 (824 MHz ~ 849 MHz)

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

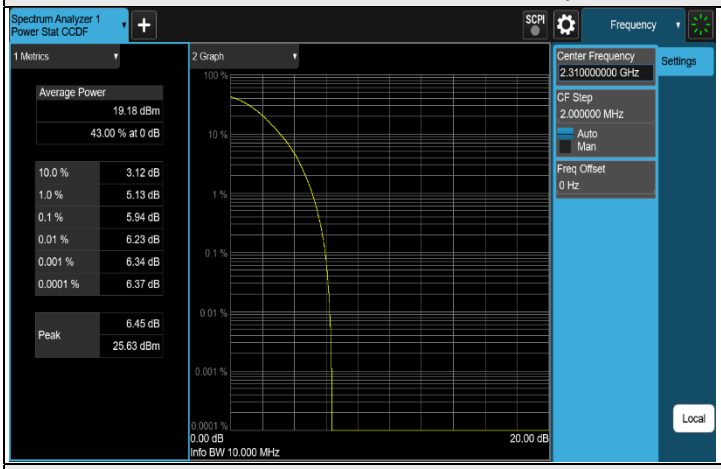
LTE Band 26 15M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26915	836.5	2.30	13	PASS
16QAM	26915	836.5	2.98	13	PASS
64QAM	26915	836.5	3.87	13	PASS
256QAM	26915	836.5	6.19	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 26915 (836.5 MHz)	

7.3.11 LTE Band 30

LTE Band 30, Channel Bandwidth: 10 MHz

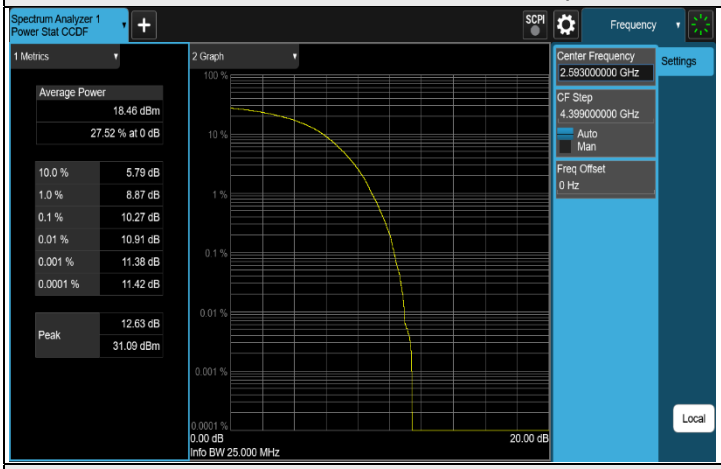
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	27710	2310	1.80	13	PASS
16QAM	27710	2310	2.27	13	PASS
64QAM	27710	2310	3.25	13	PASS
256QAM	27710	2310	5.94	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 27710 (2310 MHz)	

7.3.12 LTE Band 41

LTE Band 41, PC2, Channel Bandwidth: 20 MHz

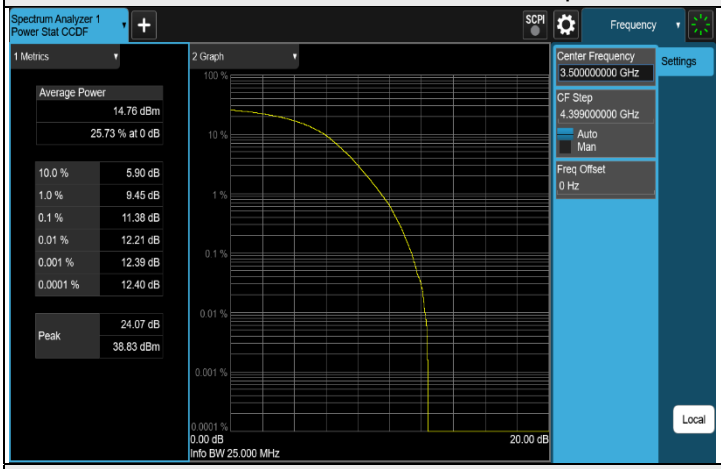
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	40620	2593	7.04	13	PASS
16QAM	40620	2593	7.43	13	PASS
64QAM	40620	2593	8.24	13	PASS
256QAM	40620	2593	10.27	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 40620 (2593 MHz)	

7.3.13 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

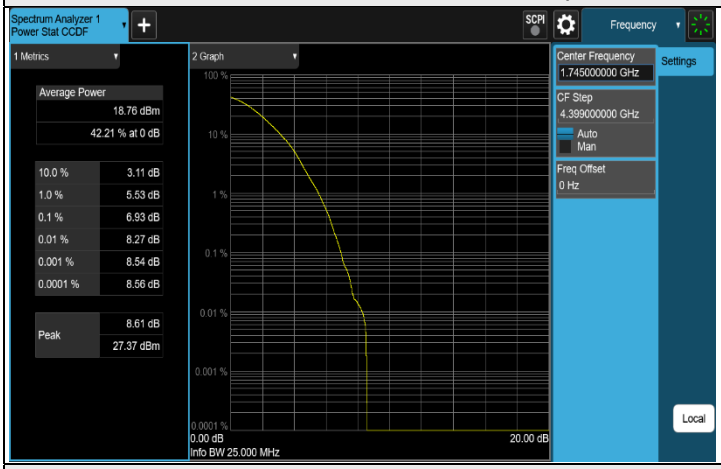
LTE Band 42 20M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	42590	3500	9.85	13	PASS
16QAM	42590	3500	10.35	13	PASS
64QAM	42590	3500	8.73	13	PASS
256QAM	42590	3500	11.38	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 42590 (3500 MHz)	

7.3.14 LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz

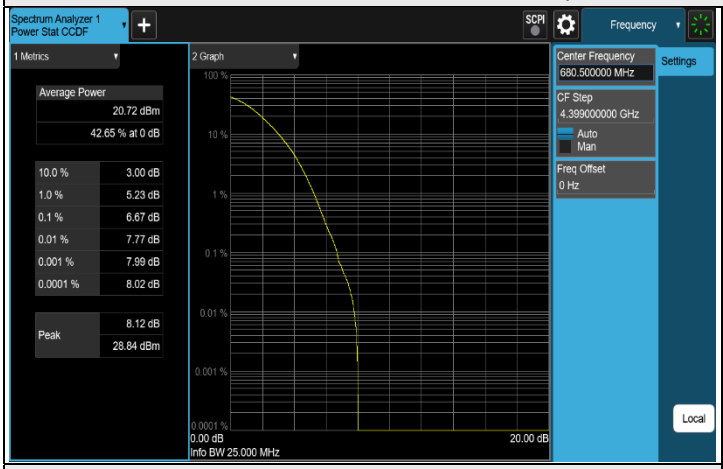
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132322	1745	4.12	13	PASS
16QAM	132322	1745	5.06	13	PASS
64QAM	132322	1745	5.87	13	PASS
256QAM	132322	1745	6.93	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 132322 (1745 MHz)	

7.3.15 LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133297	680.5	3.91	13	PASS
16QAM	133297	680.5	4.68	13	PASS
64QAM	133297	680.5	5.61	13	PASS
256QAM	133297	680.5	6.67	13	PASS

Spectrum Plot of Worst Value	
	
256QAM CH 133297 (680.5 MHz)	

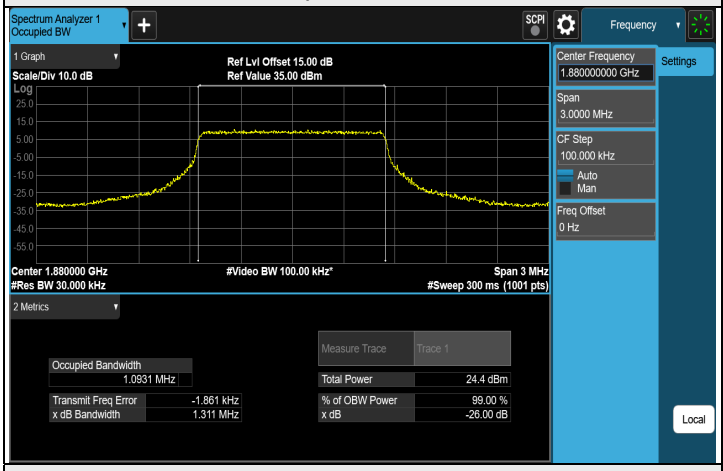
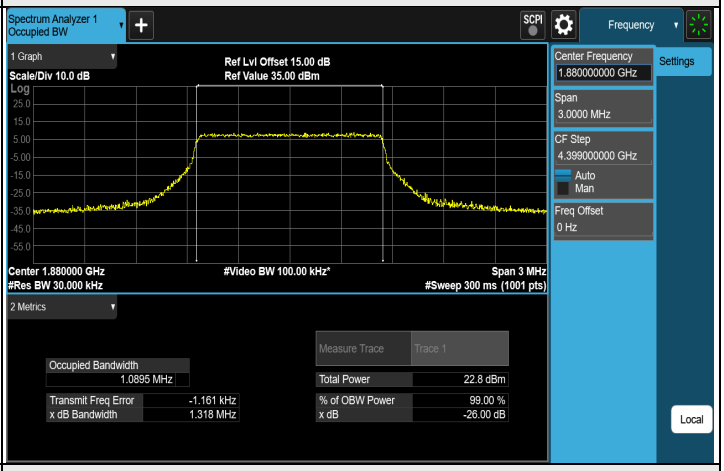
7.4 Bandwidth

Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang

7.4.1 LTE Band 2

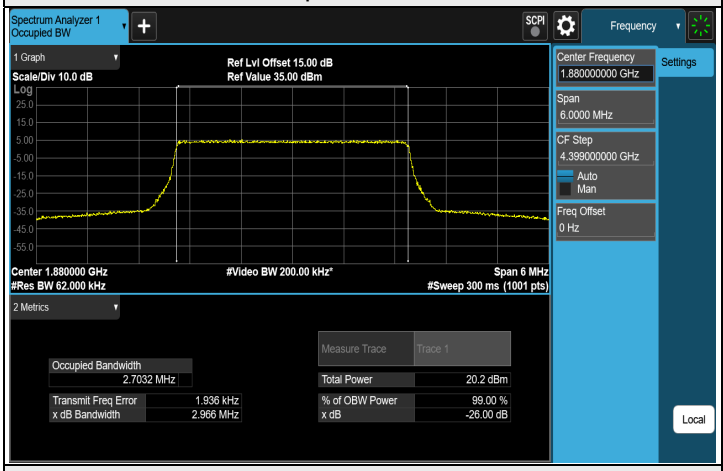
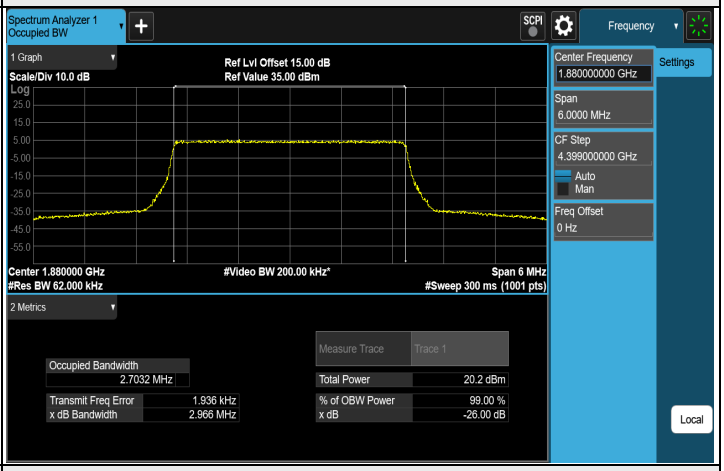
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	1.0931	1.311
16QAM	18900	1880	1.0922	1.302
64QAM	18900	1880	1.0895	1.318
256QAM	18900	1880	1.0918	1.295

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 18900 (1880 MHz)	64QAM CH 18900 (1880 MHz)

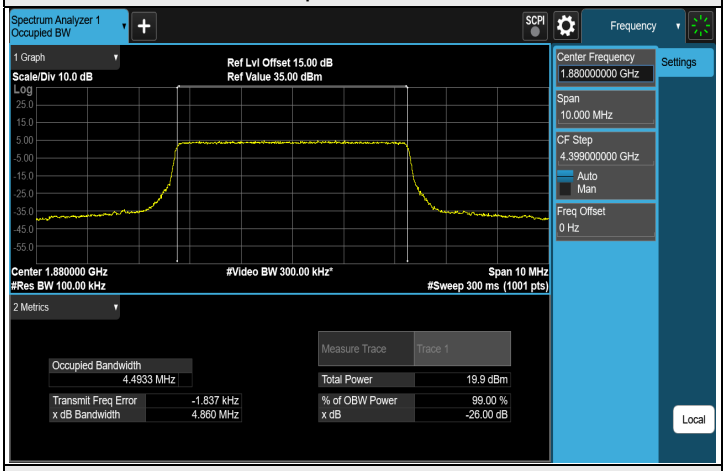
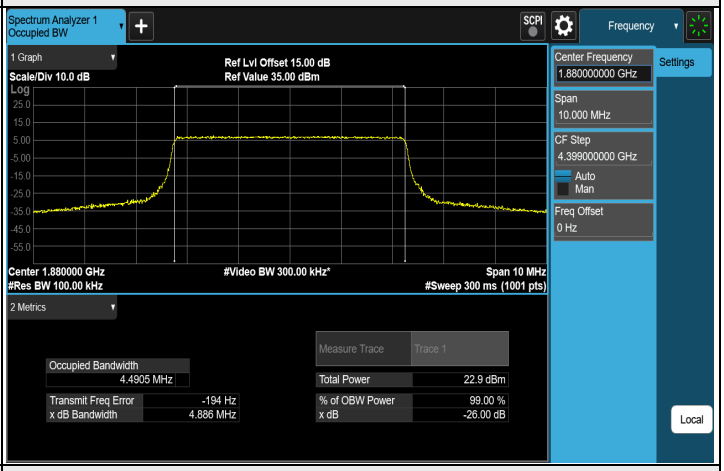
LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	2.7008	2.960
16QAM	18900	1880	2.7031	2.959
64QAM	18900	1880	2.7000	2.956
256QAM	18900	1880	2.7032	2.966

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 18900 (1880 MHz)	256QAM CH 18900 (1880 MHz)

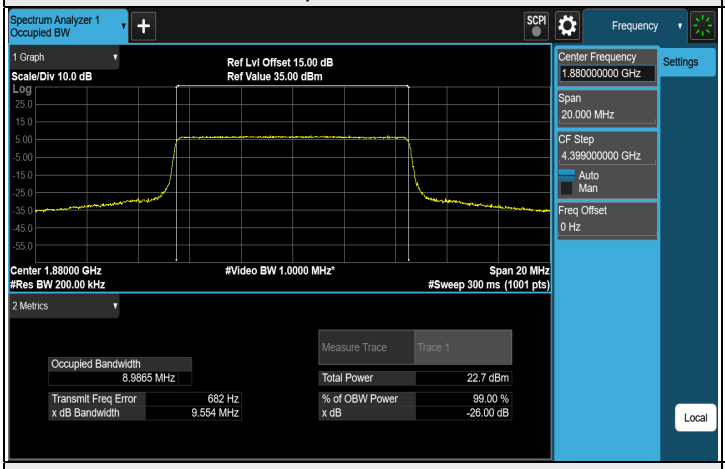
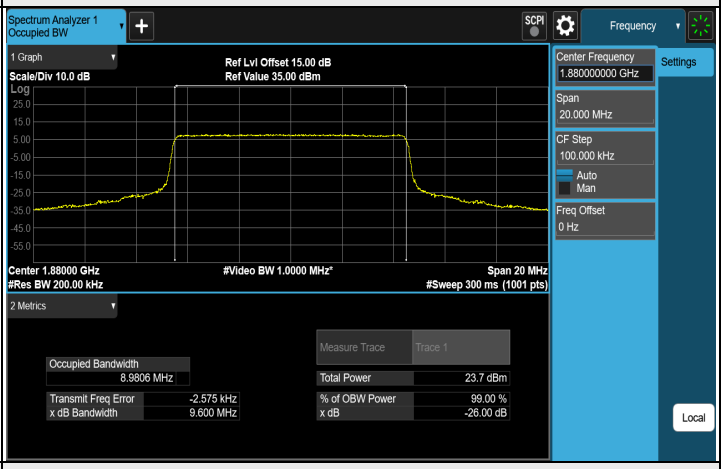
LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	4.4928	4.876
16QAM	18900	1880	4.4905	4.886
64QAM	18900	1880	4.4926	4.883
256QAM	18900	1880	4.4933	4.860

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 18900 (1880 MHz)	16QAM CH 18900 (1880 MHz)

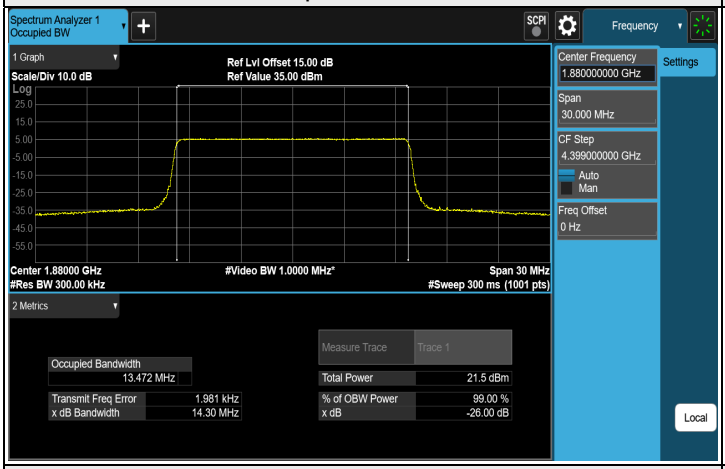
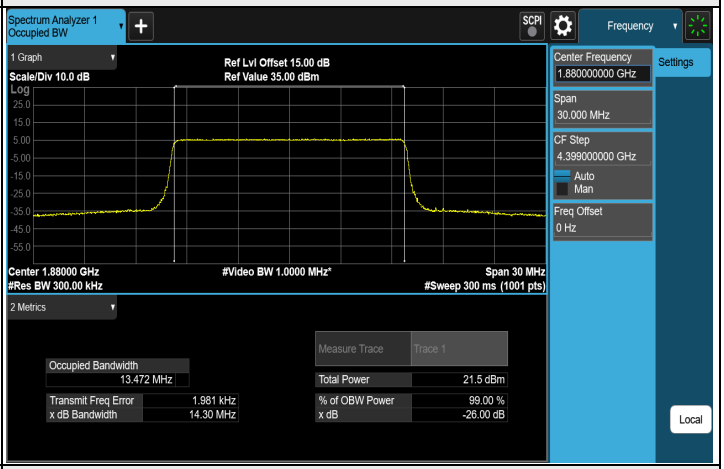
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	8.9806	9.600
16QAM	18900	1880	8.9865	9.554
64QAM	18900	1880	8.9790	9.564
256QAM	18900	1880	8.9833	9.592

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 18900 (1880 MHz)	QPSK CH 18900 (1880 MHz)

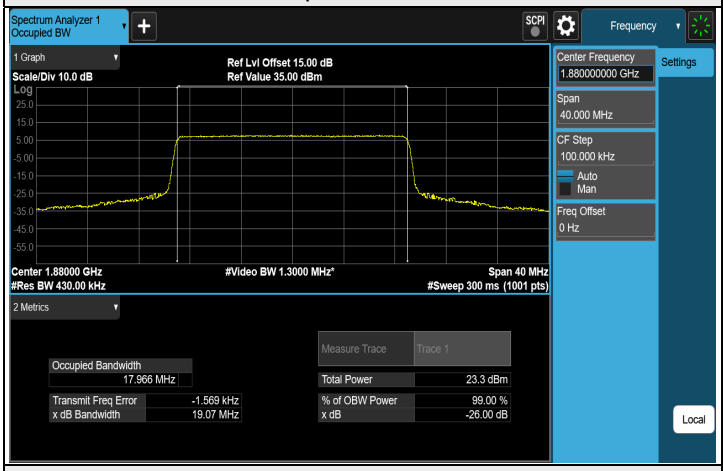
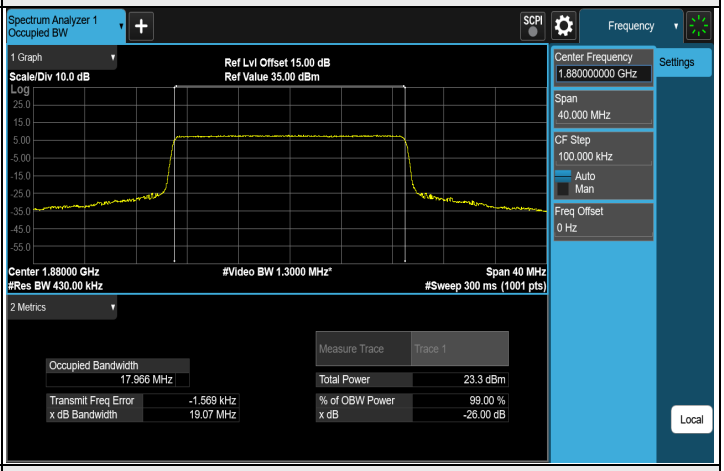
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	13.464	14.27
16QAM	18900	1880	13.472	14.26
64QAM	18900	1880	13.472	14.30
256QAM	18900	1880	13.467	14.28

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 18900 (1880 MHz)	64QAM CH 18900 (1880 MHz)

LTE Band 2, Channel Bandwidth: 20 MHz

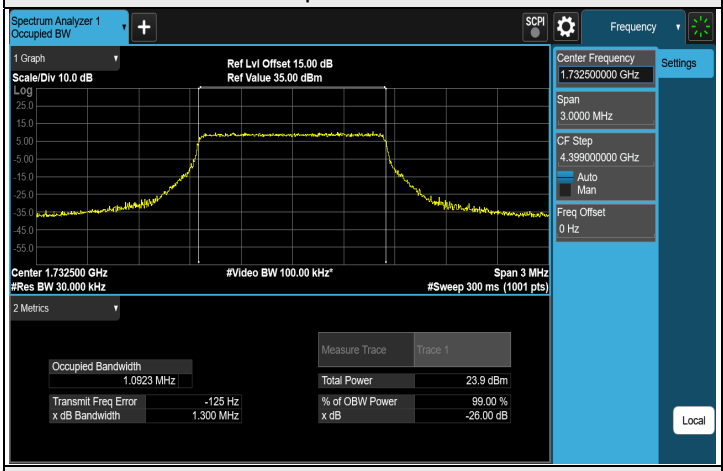
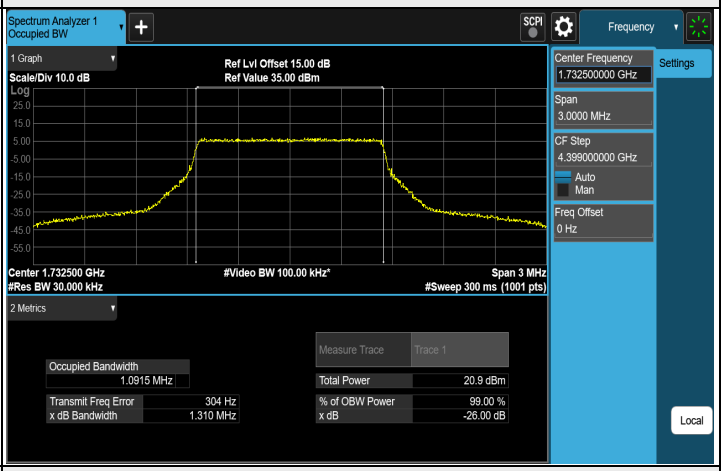
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18900	1880	17.9664	19.069
16QAM	18900	1880	17.9603	19.064
64QAM	18900	1880	17.9564	19.060
256QAM	18900	1880	17.9540	19.048

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 18900 (1880 MHz)	QPSK CH 18900 (1880 MHz)

7.4.2 LTE Band 4

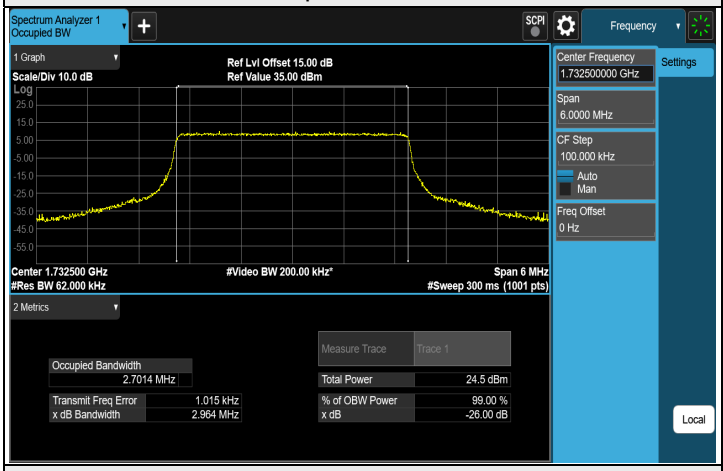
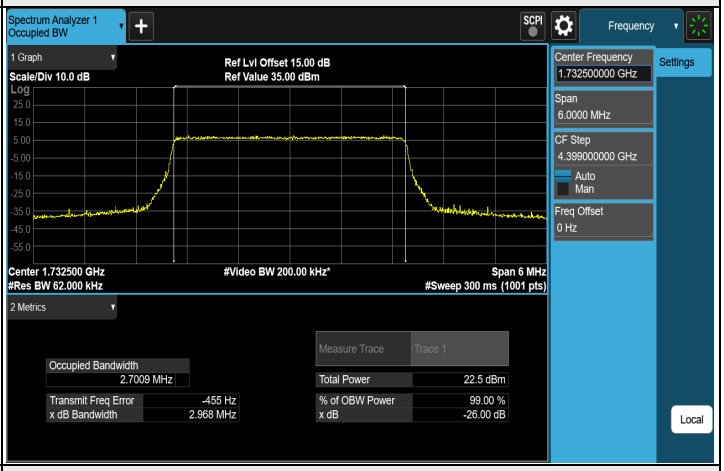
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	1.0906	1.306
16QAM	20175	1732.5	1.0920	1.307
64QAM	20175	1732.5	1.0923	1.300
256QAM	20175	1732.5	1.0915	1.310

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 20175 (1732.5 MHz)	256QAM CH 20175 (1732.5 MHz)

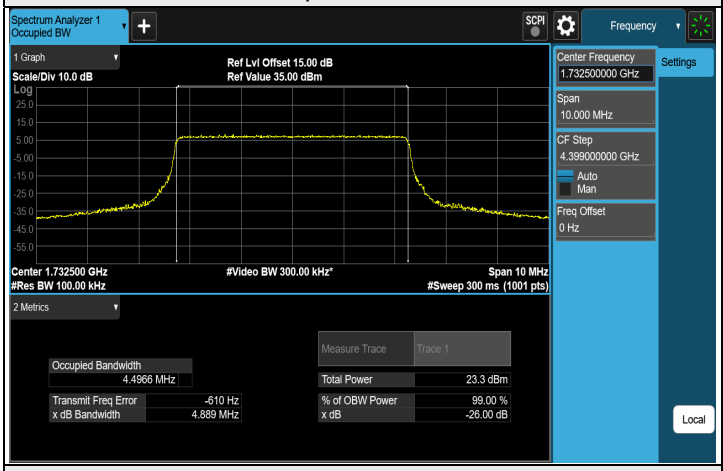
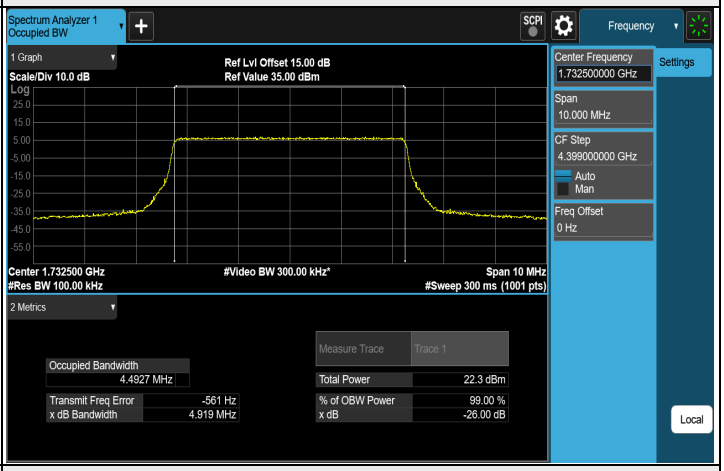
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	2.7014	2.964
16QAM	20175	1732.5	2.7003	2.944
64QAM	20175	1732.5	2.7009	2.968
256QAM	20175	1732.5	2.7007	2.946

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 20175 (1732.5 MHz)	64QAM CH 20175 (1732.5 MHz)

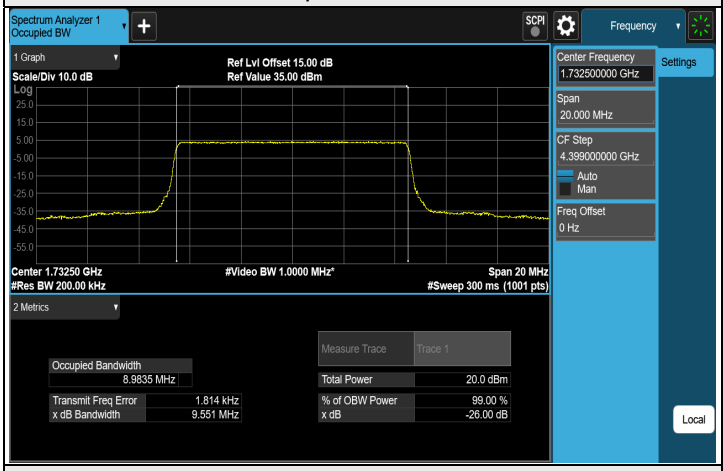
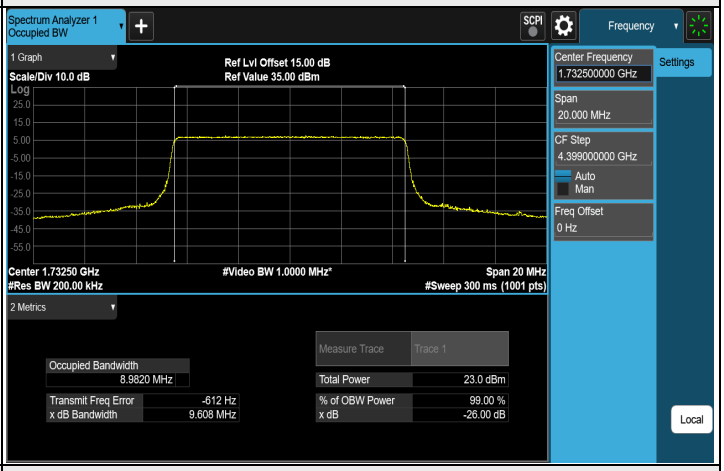
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	4.4921	4.866
16QAM	20175	1732.5	4.4966	4.889
64QAM	20175	1732.5	4.4927	4.919
256QAM	20175	1732.5	4.4962	4.889

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 20175 (1732.5 MHz)	64QAM CH 20175 (1732.5 MHz)

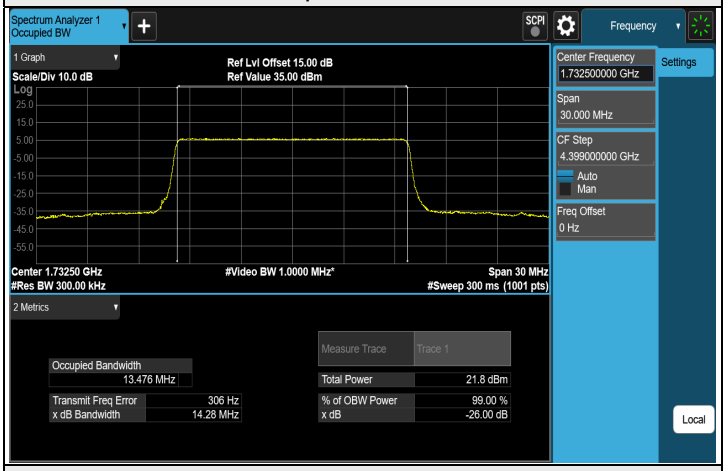
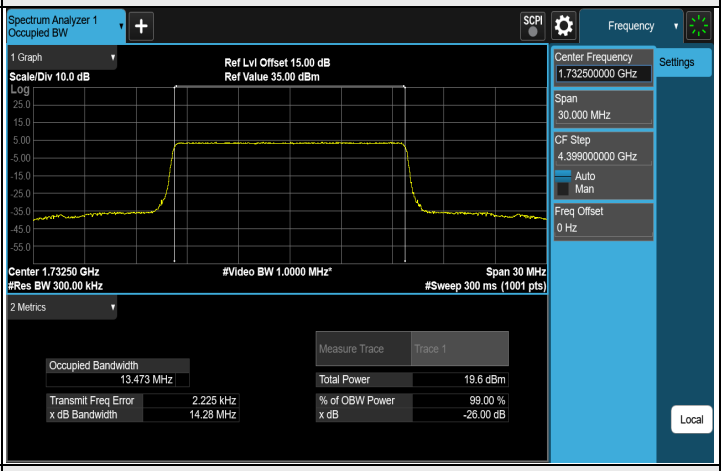
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	8.9756	9.549
16QAM	20175	1732.5	8.9820	9.608
64QAM	20175	1732.5	8.9811	9.549
256QAM	20175	1732.5	8.9835	9.551

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 20175 (1732.5 MHz)	16QAM CH 20175 (1732.5 MHz)

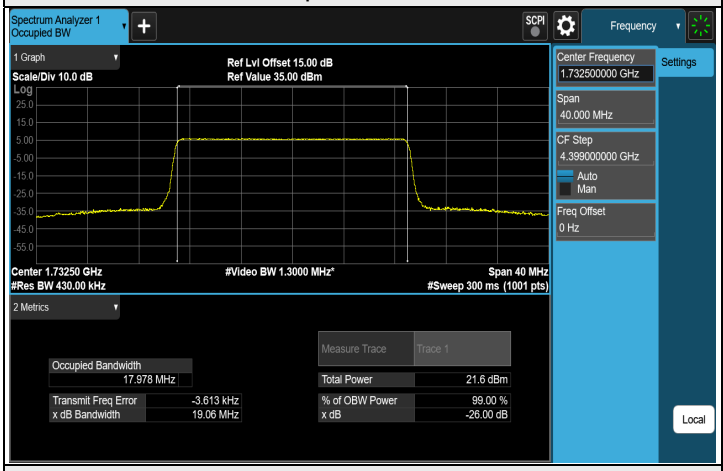
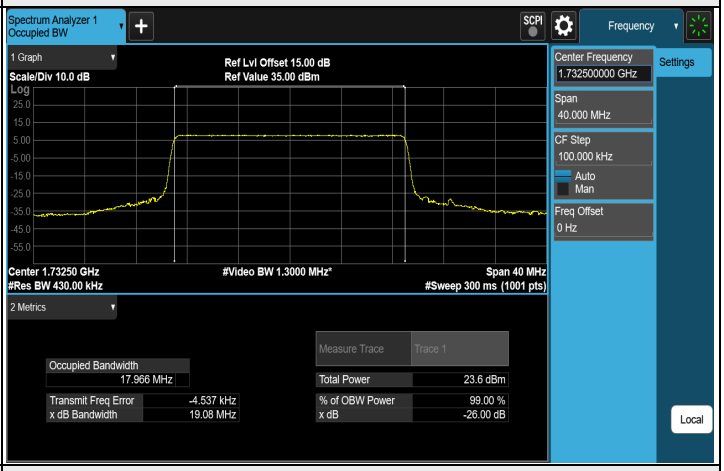
LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	13.4683	14.267
16QAM	20175	1732.5	13.4655	14.275
64QAM	20175	1732.5	13.4764	14.277
256QAM	20175	1732.5	13.4726	14.283

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 20175 (1732.5 MHz)	256QAM CH 20175 (1732.5 MHz)

LTE Band 4, Channel Bandwidth: 20 MHz

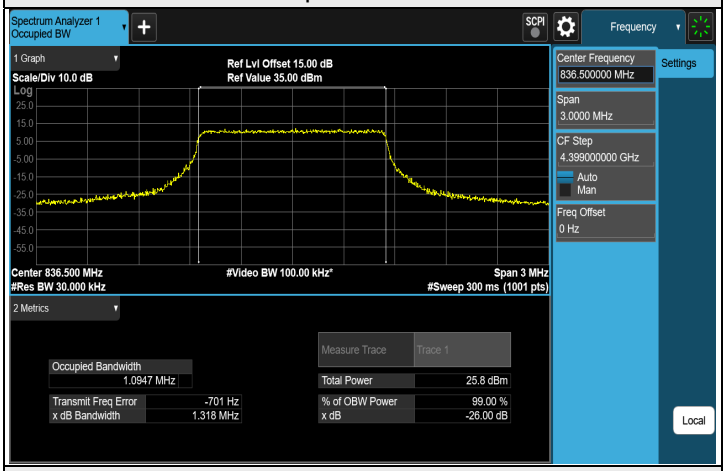
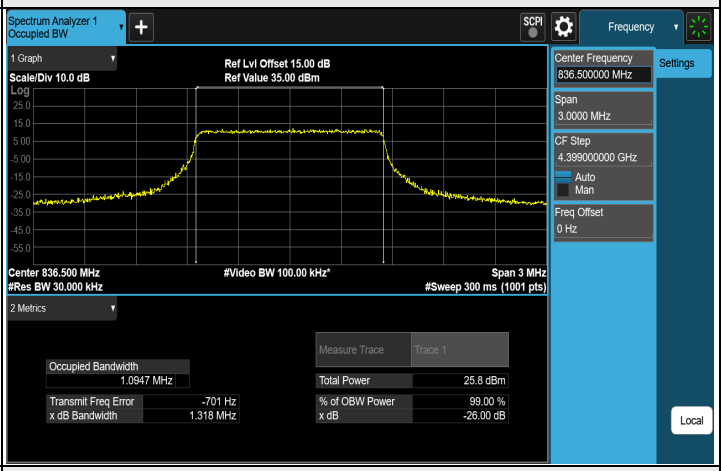
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20175	1732.5	17.9659	19.082
16QAM	20175	1732.5	17.9729	19.063
64QAM	20175	1732.5	17.9781	19.056
256QAM	20175	1732.5	17.9736	19.061

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 20175 (1732.5 MHz)	QPSK CH 20175 (1732.5 MHz)

7.4.3 LTE Band 5

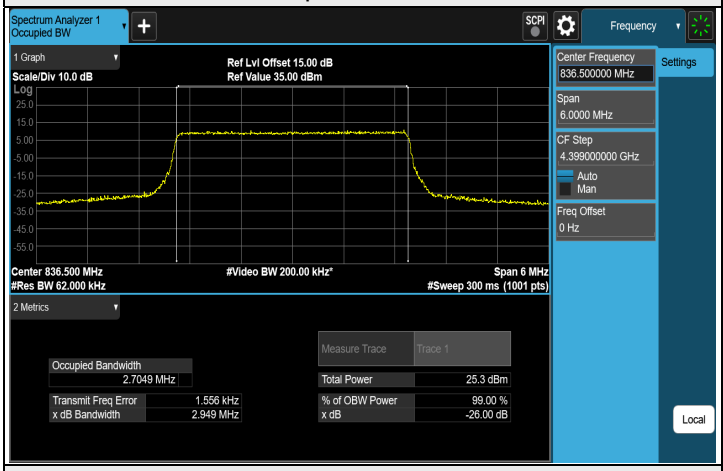
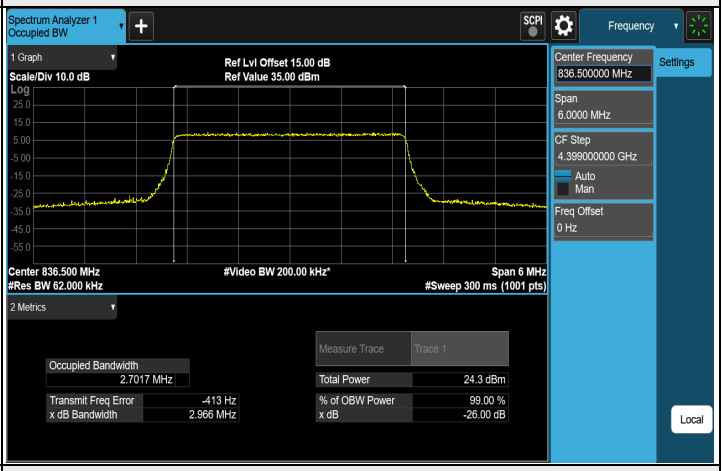
LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20525	836.5	1.0884	1.307
16QAM	20525	836.5	1.0947	1.318
64QAM	20525	836.5	1.0888	1.306
256QAM	20525	836.5	1.0908	1.303

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 20525 (836.5 MHz)	16QAM CH 20525 (836.5 MHz)

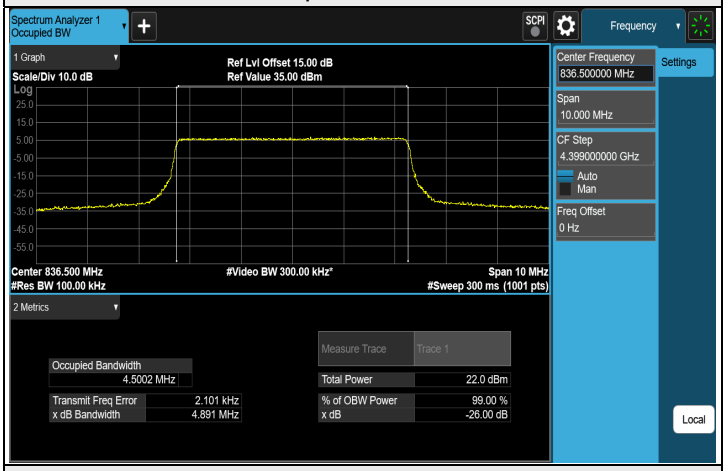
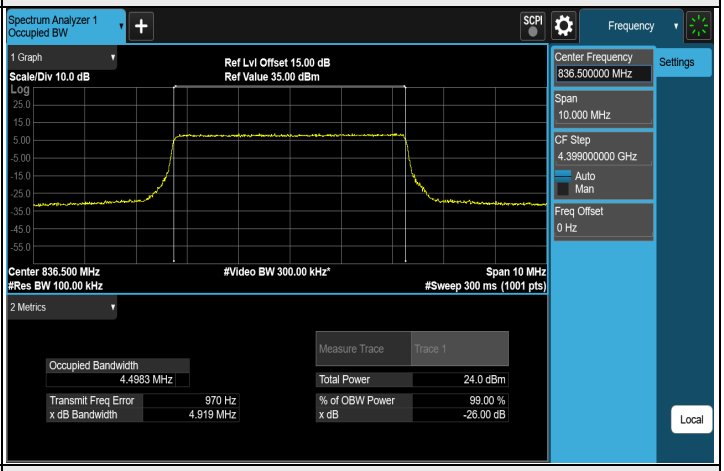
LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20525	836.5	2.7002	2.953
16QAM	20525	836.5	2.7049	2.949
64QAM	20525	836.5	2.7017	2.966
256QAM	20525	836.5	2.7027	2.948

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 20525 (836.5 MHz)	64QAM CH 20525 (836.5 MHz)

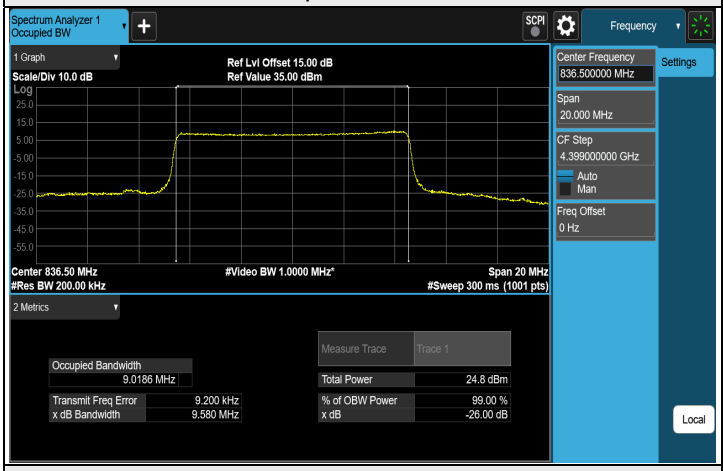
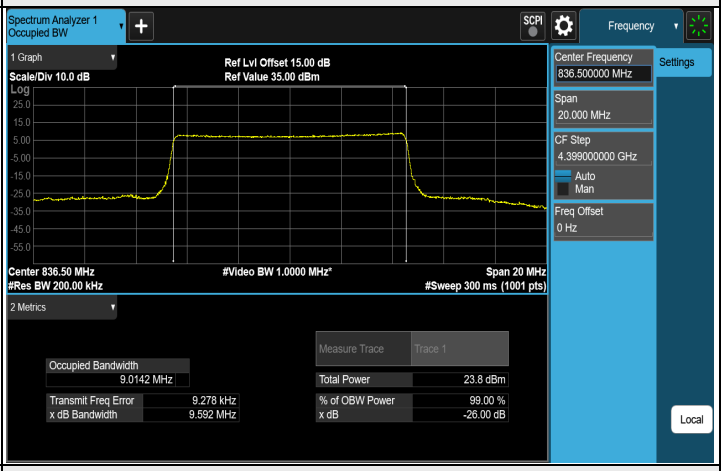
LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20525	836.5	4.4966	4.892
16QAM	20525	836.5	4.4977	4.911
64QAM	20525	836.5	4.4983	4.919
256QAM	20525	836.5	4.5002	4.891

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 20525 (836.5 MHz)	64QAM CH 20525 (836.5 MHz)

LTE Band 5, Channel Bandwidth: 10 MHz

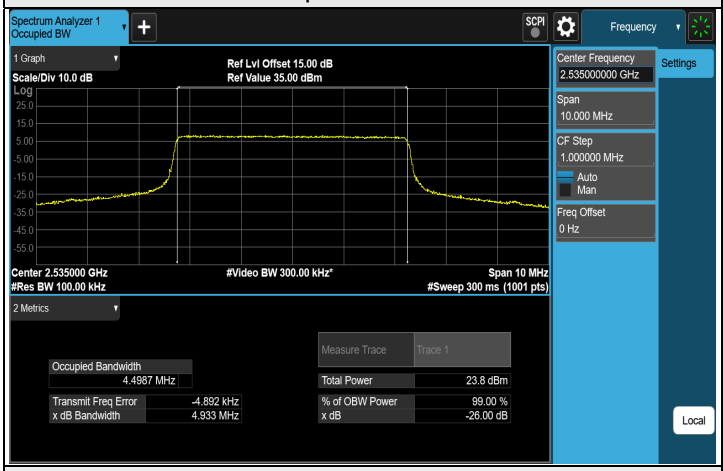
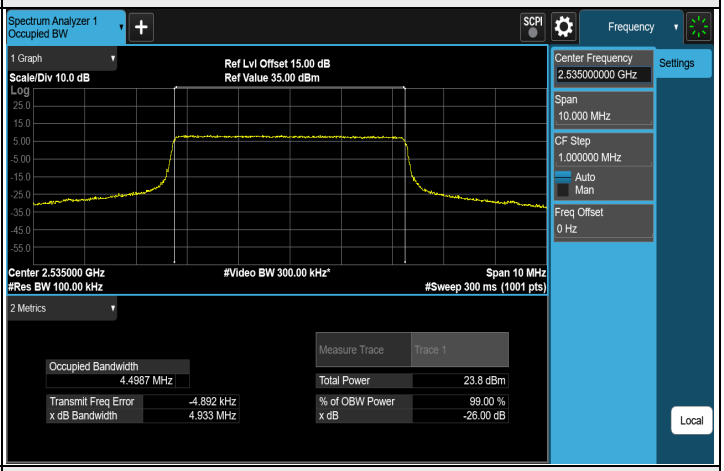
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20525	836.5	9.0125	9.565
16QAM	20525	836.5	9.0186	9.580
64QAM	20525	836.5	9.0142	9.592
256QAM	20525	836.5	9.0152	9.540

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 20525 (836.5 MHz)	64QAM CH 20525 (836.5 MHz)

7.4.4 LTE Band 7

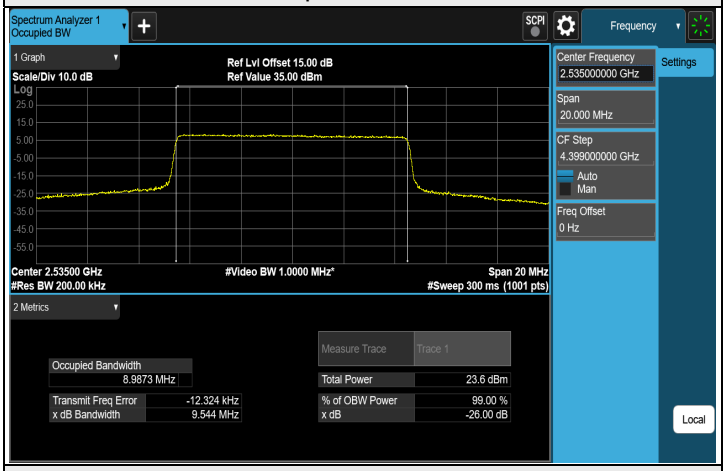
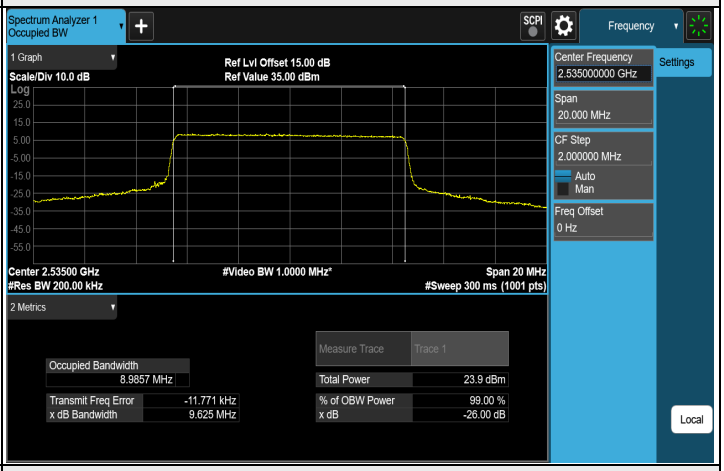
LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	21100	2535	4.4987	4.933
16QAM	21100	2535	4.4958	4.887
64QAM	21100	2535	4.4927	4.871
256QAM	21100	2535	4.4984	4.930

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 21100 (2535 MHz)	QPSK CH 21100 (2535 MHz)

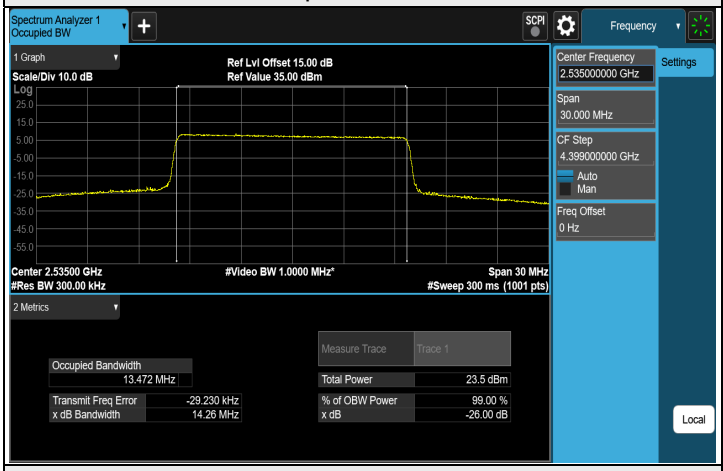
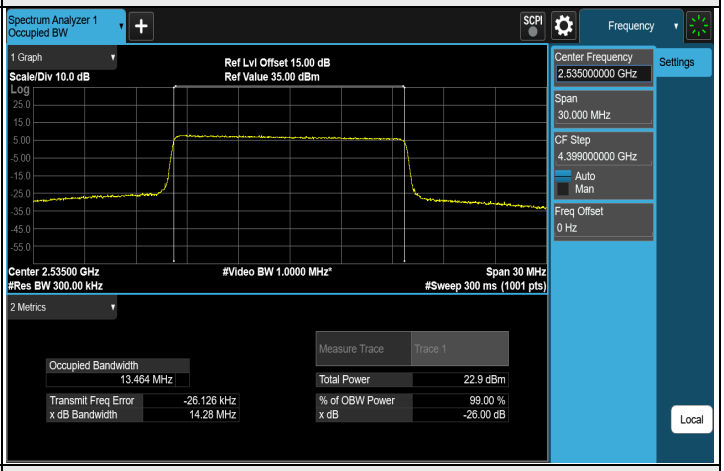
LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	21100	2535	8.9857	9.625
16QAM	21100	2535	8.9873	9.544
64QAM	21100	2535	8.9781	9.547
256QAM	21100	2535	8.9840	9.552

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 21100 (2535 MHz)	QPSK CH 21100 (2535 MHz)

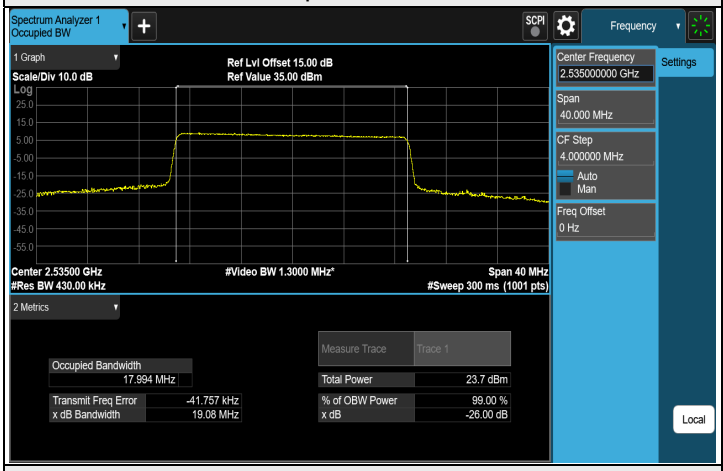
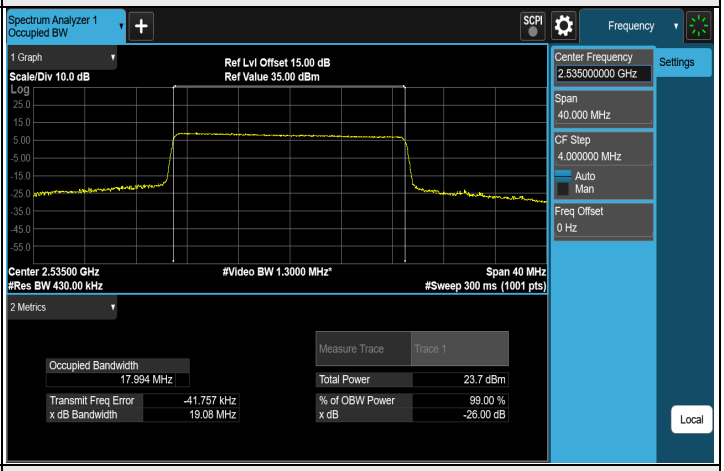
LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	21100	2535	13.4714	14.266
16QAM	21100	2535	13.4717	14.263
64QAM	21100	2535	13.4640	14.281
256QAM	21100	2535	13.4637	14.238

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 21100 (2535 MHz)	64QAM CH 21100 (2535 MHz)

LTE Band 7, Channel Bandwidth: 20 MHz

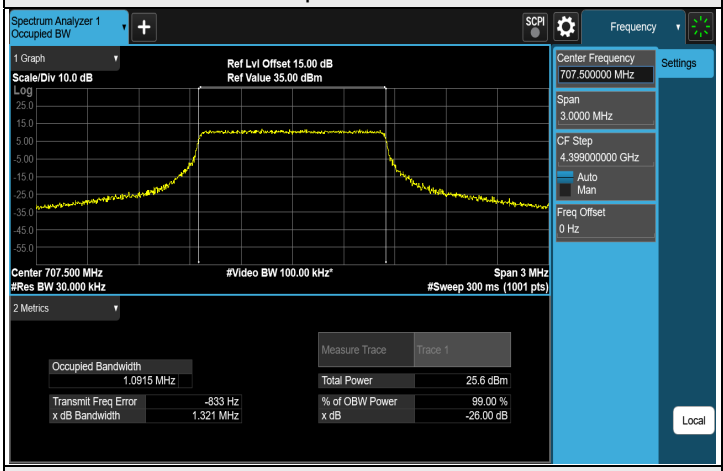
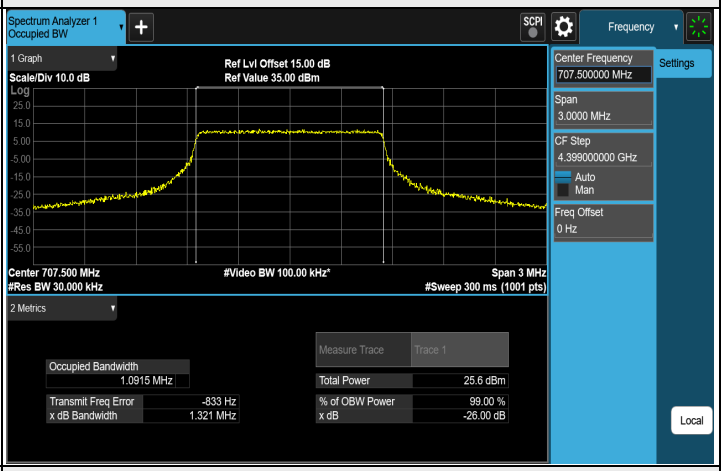
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	21100	2535	17.9935	19.080
16QAM	21100	2535	17.9840	19.078
64QAM	21100	2535	17.9728	19.032
256QAM	21100	2535	17.9654	19.040

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 21100 (2535 MHz)	QPSK CH 21100 (2535 MHz)

7.4.5 LTE Band 12

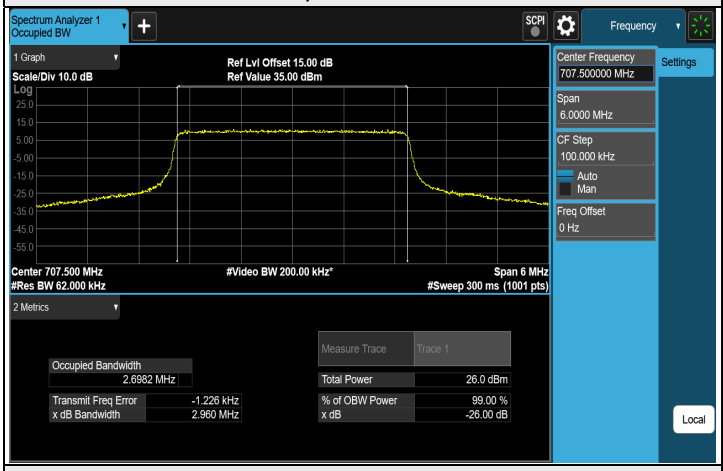
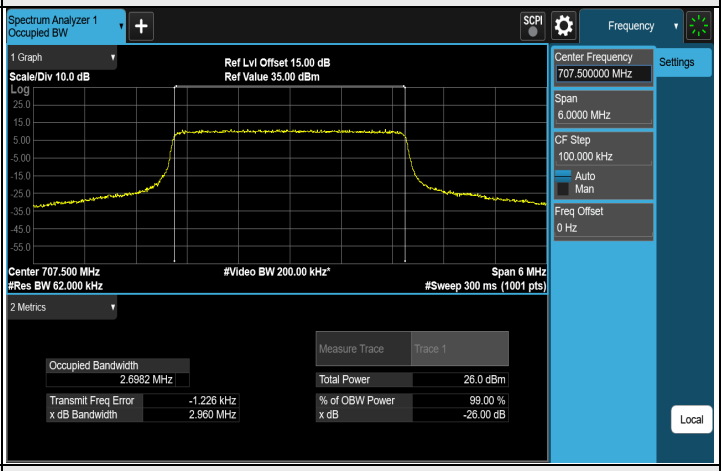
LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23095	707.5	1.0906	1.320
16QAM	23095	707.5	1.0915	1.321
64QAM	23095	707.5	1.0893	1.320
256QAM	23095	707.5	1.0905	1.288

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 23095 (707.5 MHz)	16QAM CH 23095 (707.5 MHz)

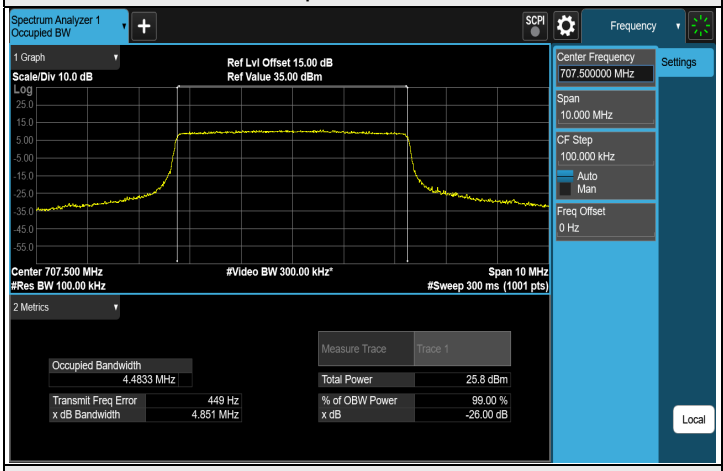
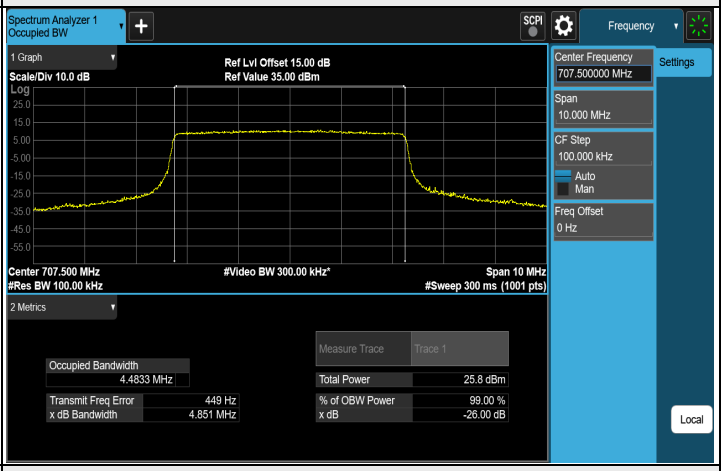
LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23095	707.5	2.6982	2.960
16QAM	23095	707.5	2.6954	2.953
64QAM	23095	707.5	2.6980	2.948
256QAM	23095	707.5	2.6945	2.954

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 23095 (707.5 MHz)	QPSK CH 23095 (707.5 MHz)

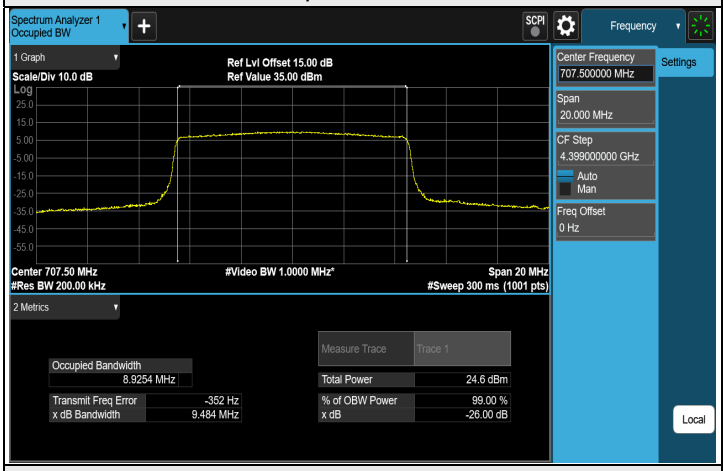
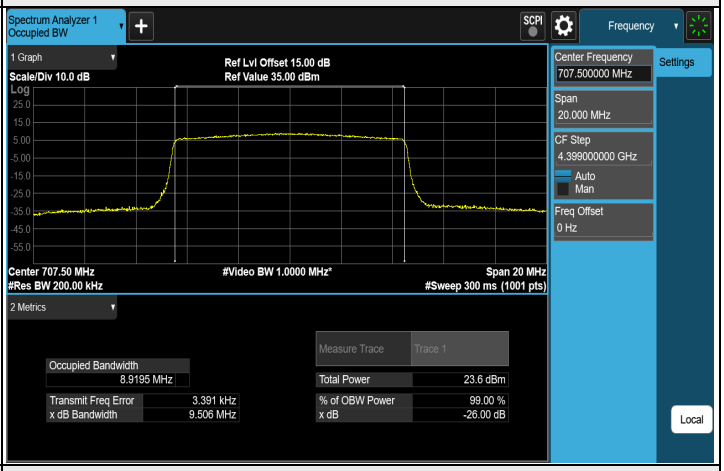
LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23095	707.5	4.4833	4.851
16QAM	23095	707.5	4.4797	4.819
64QAM	23095	707.5	4.4802	4.850
256QAM	23095	707.5	4.4815	4.814

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 23095 (707.5 MHz)	QPSK CH 23095 (707.5 MHz)

LTE Band 12, Channel Bandwidth: 10 MHz

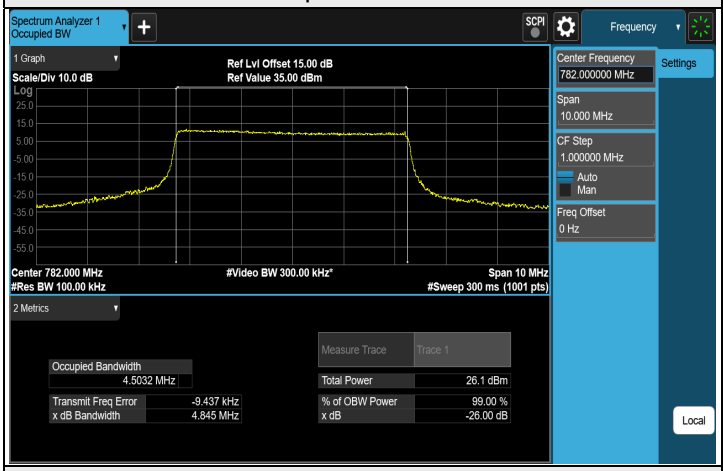
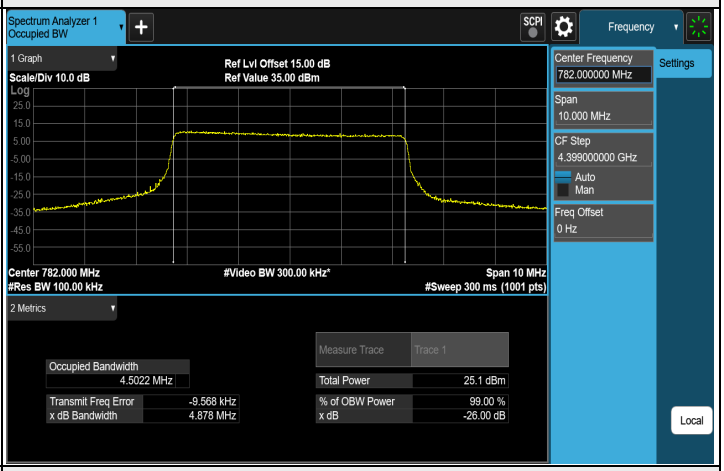
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23095	707.5	8.9192	9.482
16QAM	23095	707.5	8.9254	9.484
64QAM	23095	707.5	8.9195	9.506
256QAM	23095	707.5	8.9141	9.487

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 23095 (707.5 MHz)	64QAM CH 23095 (707.5 MHz)

7.4.6 LTE Band 13

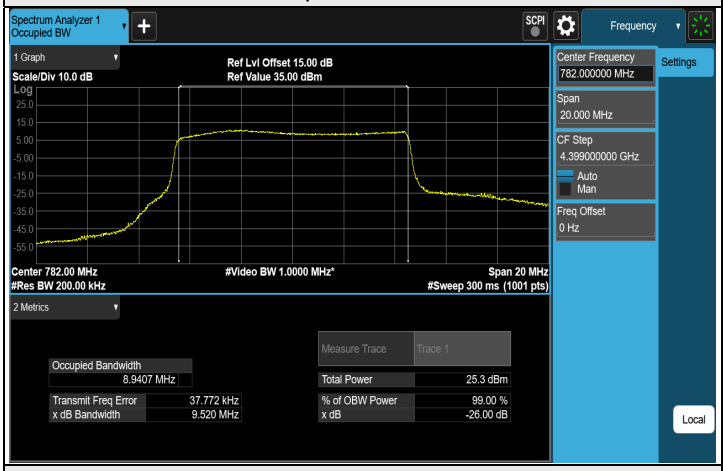
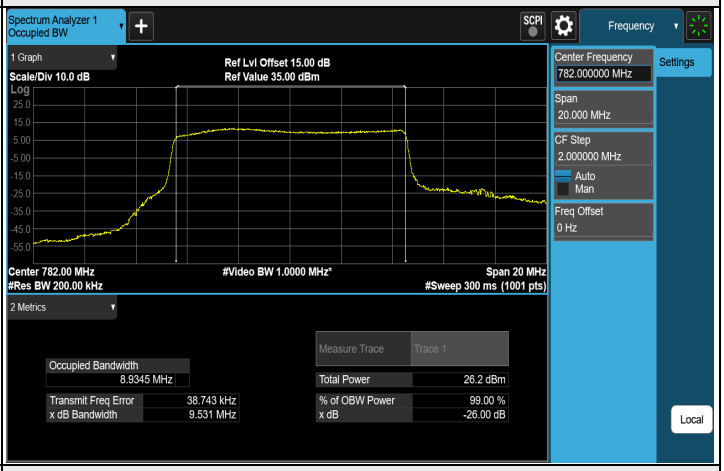
LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23230	782	4.5032	4.845
16QAM	23230	782	4.5022	4.878
64QAM	23230	782	4.4997	4.859
256QAM	23230	782	4.5032	4.873

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 23230 (782 MHz)	16QAM CH 23230 (782 MHz)

LTE Band 13, Channel Bandwidth: 10 MHz

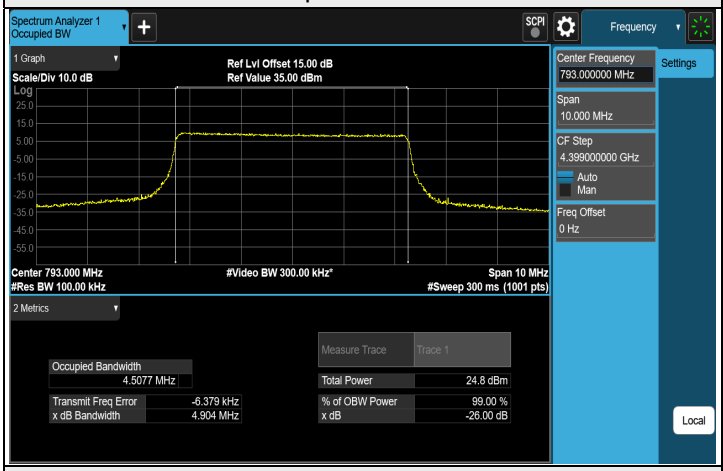
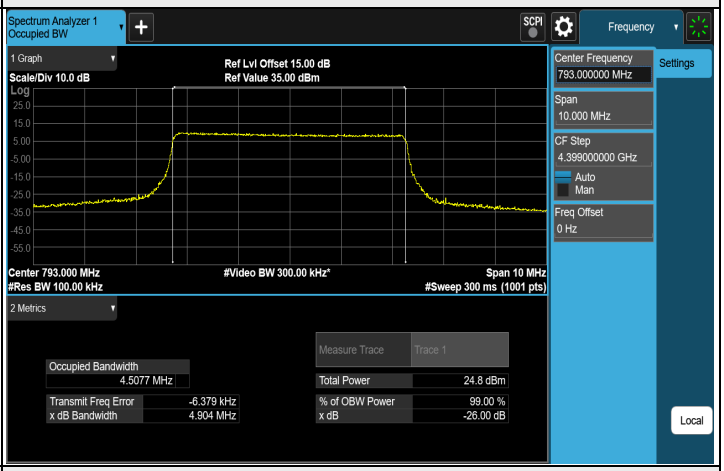
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23230	782	8.9345	9.531
16QAM	23230	782	8.9407	9.520
64QAM	23230	782	8.9345	9.511
256QAM	23230	782	8.9274	9.494

<table>
<tr><td colspan="2">Spectrum Plot of Worst Value</td></tr>
<tr><td>Occupied bandwidth</td><td>26 dB Bandwidth</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>16QAM CH 23230 (782 MHz)</td><td>QPSK CH 23230 (782 MHz)</td></tr>
</table>

7.4.7 LTE Band 14

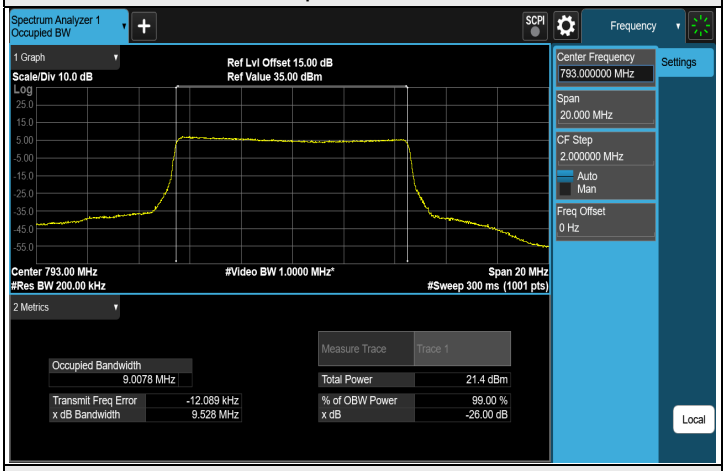
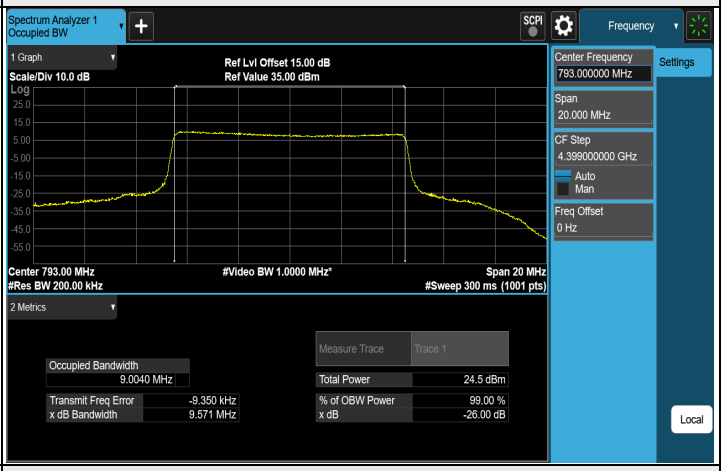
LTE Band 14, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23330	793	4.4993	4.886
16QAM	23330	793	4.5042	4.867
64QAM	23330	793	4.5077	4.904
256QAM	23330	793	4.5046	4.848

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 23330 (793 MHz)	64QAM CH 23330 (793 MHz)

LTE Band 14, Channel Bandwidth: 10 MHz

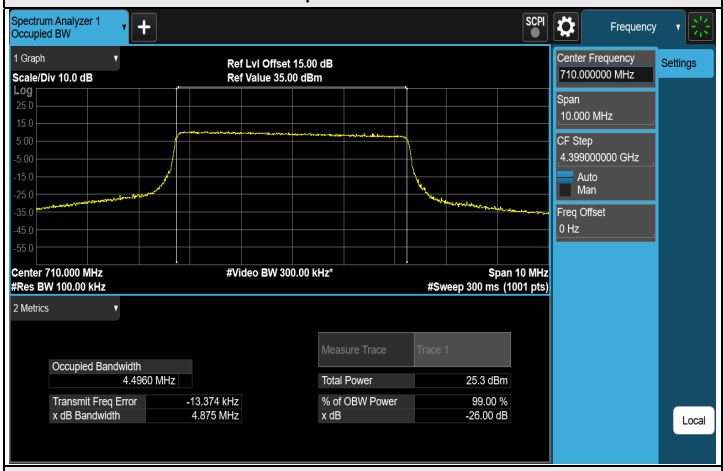
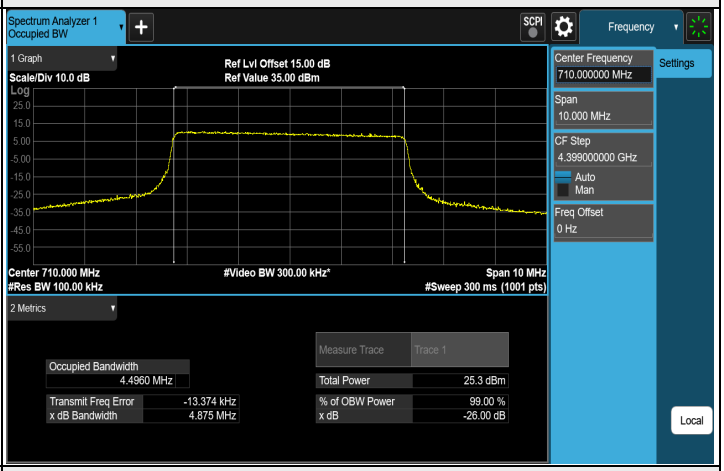
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23330	793	9.0051	9.557
16QAM	23330	793	9.0052	9.558
64QAM	23330	793	9.0040	9.571
256QAM	23330	793	9.0078	9.528

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 23330 (793 MHz)	64QAM CH 23330 (793 MHz)

7.4.8 LTE Band 17

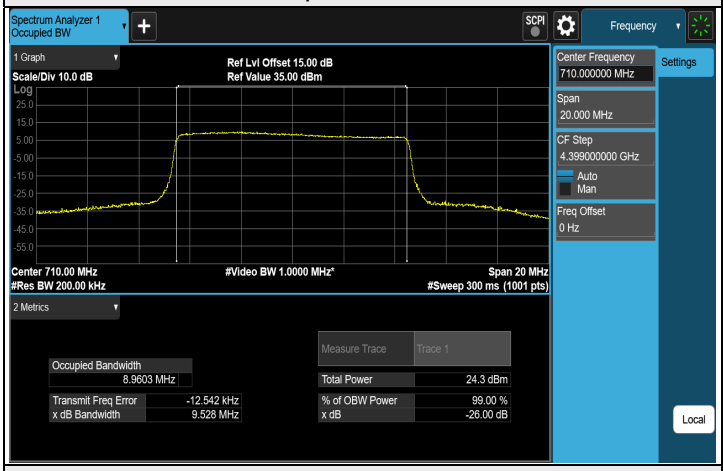
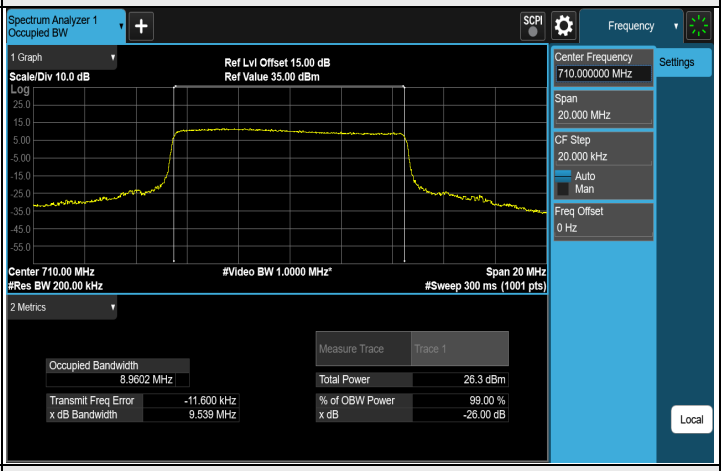
LTE Band 17, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23790	710	4.4927	4.870
16QAM	23790	710	4.4960	4.875
64QAM	23790	710	4.4929	4.866
256QAM	23790	710	4.4952	4.834

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 23790 (710 MHz)	16QAM CH 23790 (710 MHz)

LTE Band 17, Channel Bandwidth: 10 MHz

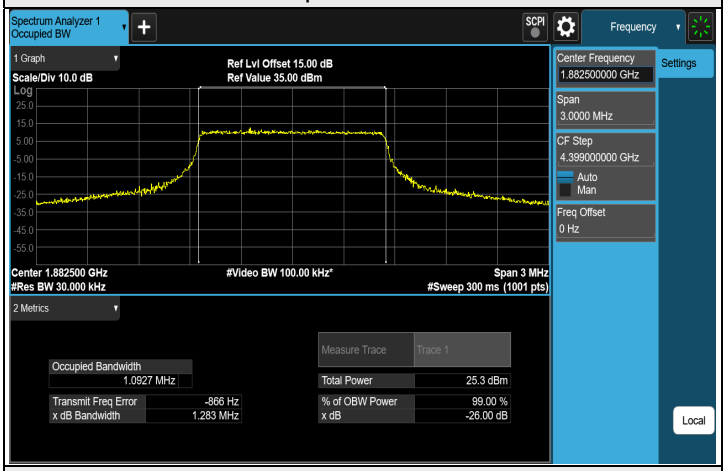
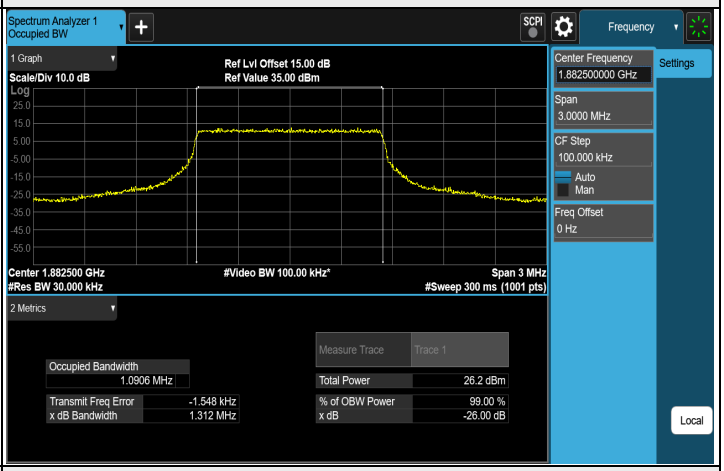
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23790	710	8.9602	9.539
16QAM	23790	710	8.9541	9.512
64QAM	23790	710	8.9603	9.528
256QAM	23790	710	8.9598	9.523

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 23790 (710 MHz)	QPSK CH 23790 (710 MHz)

7.4.9 LTE Band 25

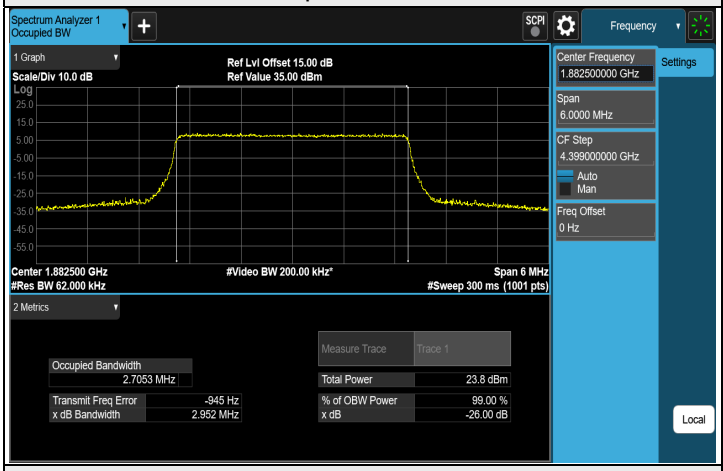
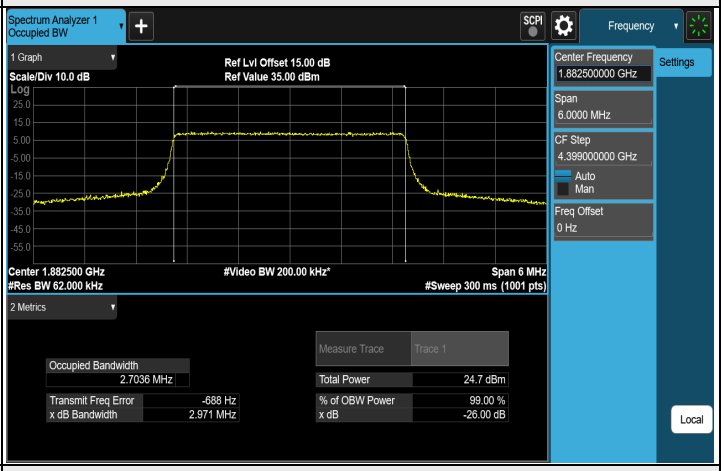
LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26365	1882.5	1.0906	1.312
16QAM	26365	1882.5	1.0927	1.283
64QAM	26365	1882.5	1.0924	1.299
256QAM	26365	1882.5	1.0909	1.302

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 26365 (1882.5 MHz)	QPSK CH 26365 (1882.5 MHz)

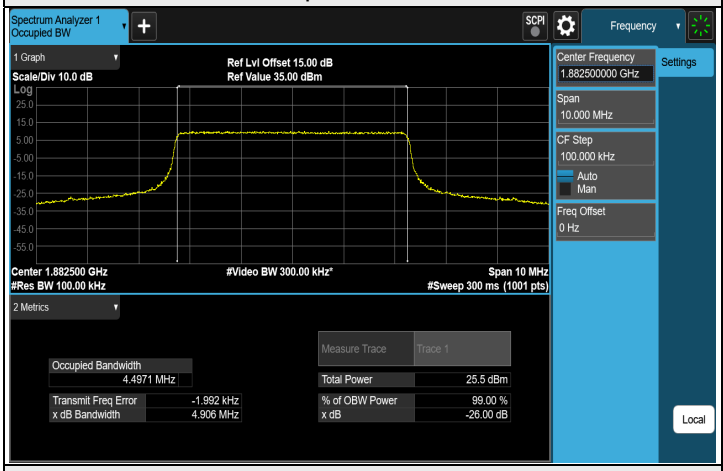
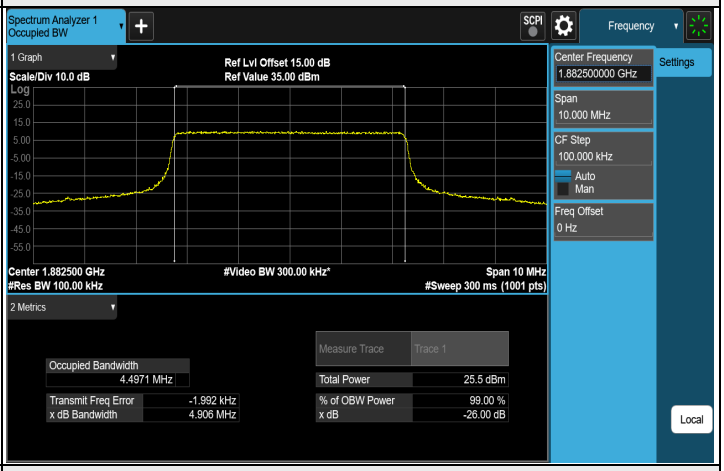
LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26365	1882.5	2.7038	2.963
16QAM	26365	1882.5	2.7036	2.971
64QAM	26365	1882.5	2.7053	2.952
256QAM	26365	1882.5	2.7033	2.951

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 26365 (1882.5 MHz)	16QAM CH 26365 (1882.5 MHz)

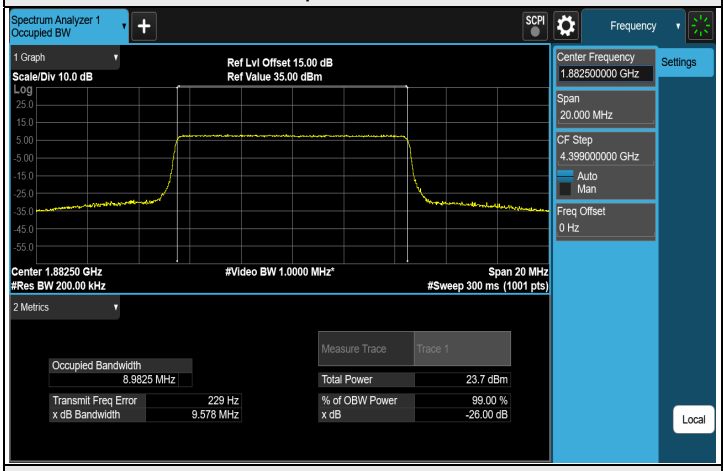
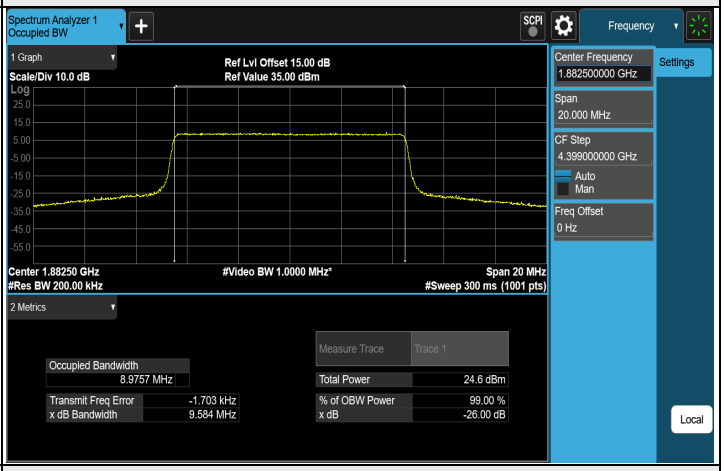
LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26365	1882.5	4.4971	4.906
16QAM	26365	1882.5	4.4951	4.887
64QAM	26365	1882.5	4.4955	4.880
256QAM	26365	1882.5	4.4960	4.866

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 26365 (1882.5 MHz)	QPSK CH 26365 (1882.5 MHz)

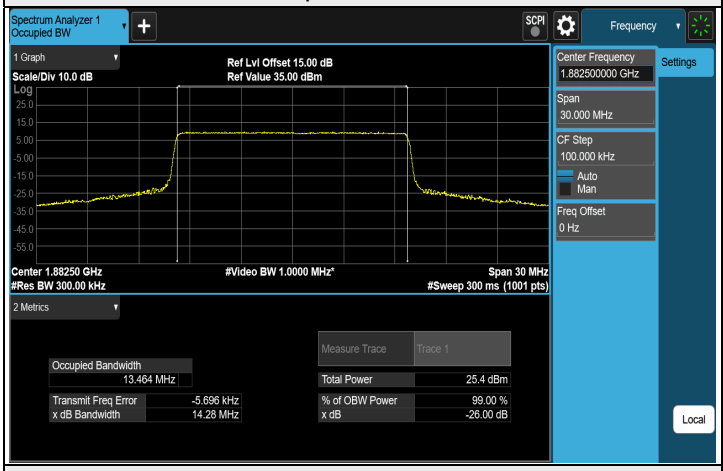
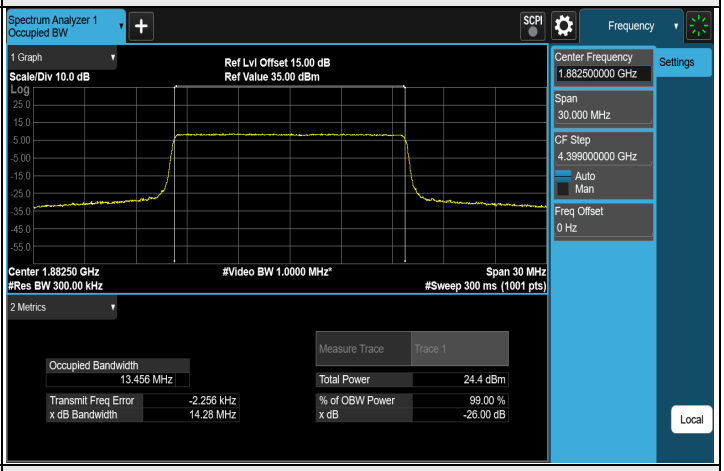
LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26365	1882.5	8.9810	9.570
16QAM	26365	1882.5	8.9757	9.584
64QAM	26365	1882.5	8.9825	9.578
256QAM	26365	1882.5	8.9736	9.552

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 26365 (1882.5 MHz)	16QAM CH 26365 (1882.5 MHz)

LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26365	1882.5	13.4643	14.277
16QAM	26365	1882.5	13.4560	14.279
64QAM	26365	1882.5	13.4499	14.274
256QAM	26365	1882.5	13.4563	14.278

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 26365 (1882.5 MHz)	16QAM CH 26365 (1882.5 MHz)