

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.: RFBGDY-WTW-P25120682

FCC ID: 2AATHAV62MB-X

Product: Kontron AV62MB-X (5G Rel.16 automotive NAD)

Brand: KONTRON

Model No.: AV62MB-X

Received Date: 2025/12/30

Test Date: 2026/3/25 ~ 2026/7/21

Issued Date: 2026/8/31

Applicant: Kontron Europe GmbH

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FCC Registration /

Designation Number: 788550 / TW0003

Approved by: 
Jeremy Lin / Project Engineer

Date: 2026/8/31

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBGDY-WTW-P25120682	Original release.	2026/8/31

1 Certificate

Product: Kontron AV62MB-X (5G Rel.16 automotive NAD)

Brand: KONTRON

Test Model: AV62MB-X

Sample Status: Engineering sample

Applicant: Kontron Europe GmbH

Test Date: 2026/3/25 ~ 2026/7/21

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 90.635(b) Part 90.542(a)(7)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 22.913 (d) Part 24.232 (d) Part 27.50(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 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 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -7.76 dB at 179.38 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 90.691 Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -11.47 dB at 1591.00 MHz
Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 Part 90.539(e)	Frequency Stability	Pass	Meet the requirement of limit.

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

2.1 Measurement Uncertainty

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

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

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Kontron AV62MB-X (5G Rel.16 automotive NAD)
Brand	KONTRON
Test Model	AV62MB-X
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc
EUT Category	Mobile station
Modulation Type	GSM, GPRS, EGPRS: GMSK WCDMA: Release 99, HSDPA, HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM
2G/3G Support Band	GSM, GPRS, EGPRS: 850, 1900 WCDMA: B2, B4, B5
LTE support SISO bands	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B41, B48, B66, B71
LTE support MIMO bands	-
LTE bands support CA mode	5B, 7C, 12B, 41C, 48C, 66B, 66C
PC3 for Power Class	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B41, B48, B66, B71
PC2 for Power Class	-
PC1.5 for Power Class	-
Band Covered Information	-

Note:

1. EUT Overview

GSM 850

TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
824.2 ~ 848.8	GSM	1.607	32.06	242KGXW
	GPRS	1.574	31.97	246KGXW
	EGPRS	1.560	31.93	246KGXW

GSM 1900

TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1850.2 ~ 1909.8	GSM	1.396	31.45	242KGXW
	GPRS	1.384	31.41	247KGXW
	EGPRS	1.358	31.33	246KGXW

WCDMA Band II

TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1852.4 ~ 1907.6	RMC 12.2K	0.347	25.40	4M16F9W
	HSDPA	0.301	24.78	4M16F9W
	HSUPA	0.267	24.26	4M16F9W

WCDMA Band IV

TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
1712.4 ~ 1752.6	RMC 12.2K	0.355	25.50	4M16F9W
	HSDPA	0.303	24.82	4M16F9W
	HSUPA	0.273	24.36	4M16F9W

WCDMA Band V

TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
826.4 ~ 846.6	RMC 12.2K	0.221	23.45	4M17F9W
	HSDPA	0.213	23.28	4M16F9W
	HSUPA	0.190	22.79	4M17F9W

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	0.308	24.89	1M09G7D
		16QAM	0.269	24.3	1M09D7W
		64QAM	0.207	23.16	1M09D7W
		256QAM	0.105	20.22	1M09D7W
3 MHz	1851.5 ~ 1908.5	QPSK	0.308	24.89	2M70G7D
		16QAM	0.283	24.52	2M70D7W
		64QAM	0.233	23.67	2M70D7W
		256QAM	0.096	19.83	2M70D7W
5 MHz	1852.5 ~ 1907.5	QPSK	0.324	25.11	4M50G7D
		16QAM	0.272	24.35	4M50D7W
		64QAM	0.217	23.37	4M49D7W
		256QAM	0.104	20.16	4M50D7W
10 MHz	1855 ~ 1905	QPSK	0.321	25.06	8M98G7D
		16QAM	0.261	24.16	8M98D7W
		64QAM	0.22	23.43	8M98D7W
		256QAM	0.105	20.2	8M97D7W
15 MHz	1857.5 ~ 1902.5	QPSK	0.325	25.12	13M5G7D
		16QAM	0.273	24.36	13M5D7W
		64QAM	0.218	23.38	13M5D7W
		256QAM	0.101	20.03	13M5D7W
20 MHz	1860 ~ 1900	QPSK	0.347	25.4	18M0G7D
		16QAM	0.281	24.49	18M0D7W
		64QAM	0.205	23.11	18M0D7W
		256QAM	0.105	20.23	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	0.313	24.95	1M09G7D
		16QAM	0.281	24.49	1M09D7W
		64QAM	0.216	23.35	1M09D7W
		256QAM	0.107	20.29	1M09D7W
3 MHz	1711.5 ~ 1753.5	QPSK	0.313	24.95	2M70G7D
		16QAM	0.275	24.4	2M70D7W
		64QAM	0.217	23.36	2M70D7W
		256QAM	0.104	20.16	2M70D7W
5 MHz	1712.5 ~ 1752.5	QPSK	0.303	24.81	4M50G7D
		16QAM	0.279	24.45	4M49D7W
		64QAM	0.229	23.6	4M49D7W
		256QAM	0.107	20.3	4M49D7W

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	1715 ~ 1750	QPSK	0.304	24.83	8M98G7D
		16QAM	0.273	24.36	8M98D7W
		64QAM	0.203	23.08	8M98D7W
		256QAM	0.105	20.23	8M98D7W
15 MHz	1717.5 ~ 1747.5	QPSK	0.328	25.16	13M5G7D
		16QAM	0.256	24.09	13M5D7W
		64QAM	0.208	23.18	13M5D7W
		256QAM	0.108	20.32	13M5D7W
20 MHz	1720 ~ 1745	QPSK	0.33	25.18	18M0G7D
		16QAM	0.264	24.22	18M0D7W
		64QAM	0.231	23.63	18M0D7W
		256QAM	0.102	20.09	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	0.205	23.11	1M09G7D
		16QAM	0.183	22.62	1M09D7W
		64QAM	0.148	21.71	1M09D7W
		256QAM	0.071	18.51	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.209	23.21	2M70G7D
		16QAM	0.194	22.88	2M70D7W
		64QAM	0.14	21.46	2M70D7W
		256QAM	0.071	18.49	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.212	23.26	4M50G7D
		16QAM	0.182	22.6	4M50D7W
		64QAM	0.148	21.7	4M50D7W
		256QAM	0.072	18.57	4M49D7W
10 MHz	829 ~ 844	QPSK	0.214	23.31	8M98G7D
		16QAM	0.182	22.59	8M98D7W
		64QAM	0.148	21.69	8M98D7W
		256QAM	0.074	18.67	8M98D7W

LTE Band 7

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2502.5 ~ 2567.5	QPSK	0.34	25.31	4M49G7D
		16QAM	0.34	25.31	4M49D7W
		64QAM	0.229	23.59	4M49D7W
		256QAM	0.12	20.79	4M49D7W
10 MHz	2505 ~ 2565	QPSK	0.345	25.38	8M98G7D
		16QAM	0.314	24.97	8M98D7W
		64QAM	0.236	23.72	8M98D7W
		256QAM	0.12	20.8	8M97D7W
15 MHz	2507.5 ~ 2562.5	QPSK	0.341	25.33	13M5G7D
		16QAM	0.326	25.13	13M5D7W
		64QAM	0.231	23.64	13M5D7W
		256QAM	0.119	20.77	13M4D7W
20 MHz	2510 ~ 2560	QPSK	0.353	25.48	18M0G7D
		16QAM	0.311	24.93	18M0D7W
		64QAM	0.226	23.55	18M0D7W
		256QAM	0.13	21.14	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	0.226	23.54	1M09G7D
		16QAM	0.2	23.01	1M09D7W
		64QAM	0.163	22.13	1M09D7W
		256QAM	0.072	18.59	1M09D7W
3 MHz	700.5 ~ 714.5	QPSK	0.224	23.5	2M70G7D
		16QAM	0.203	23.07	2M70D7W
		64QAM	0.158	21.99	2M70D7W
		256QAM	0.076	18.78	2M70D7W
5 MHz	701.5 ~ 713.5	QPSK	0.224	23.51	4M50G7D
		16QAM	0.211	23.25	4M50D7W
		64QAM	0.154	21.87	4M50D7W
		256QAM	0.077	18.84	4M50D7W
10 MHz	704 ~ 711	QPSK	0.228	23.57	8M98G7D
		16QAM	0.199	22.98	8M98D7W
		64QAM	0.157	21.97	8M98D7W
		256QAM	0.074	18.72	8M98D7W

LTE Band 13

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	779.5 ~ 784.5	QPSK	0.218	23.38	4M50G7D
		16QAM	0.188	22.74	4M50D7W
		64QAM	0.149	21.74	4M50D7W
		256QAM	0.071	18.52	4M51D7W
10 MHz	782	QPSK	0.219	23.4	8M95G7D
		16QAM	0.184	22.65	8M95D7W
		64QAM	0.138	21.41	8M95D7W
		256QAM	0.069	18.41	8M94D7W

LTE Band 14

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	790.5 ~ 795.5	QPSK	0.218	23.39	4M49G7D
		16QAM	0.196	22.92	4M50D7W
		64QAM	0.149	21.74	4M50D7W
		256QAM	0.07	18.46	4M50D7W
10 MHz	793	QPSK	0.226	23.55	8M97G7D
		16QAM	0.19	22.78	8M98D7W
		64QAM	0.157	21.96	8M97D7W
		256QAM	0.07	18.45	8M97D7W

LTE Band 17

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
5 MHz	706.5 ~ 713.5	QPSK	0.225	23.53	4M50G7D
		16QAM	0.199	22.98	4M50D7W
		64QAM	0.162	22.09	4M49D7W
		256QAM	0.076	18.8	4M50D7W
10 MHz	709 ~ 711	QPSK	0.227	23.56	8M98G7D
		16QAM	0.2	23.01	8M98D7W
		64QAM	0.159	22.02	8M98D7W
		256QAM	0.08	19.02	8M98D7W

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	0.315	24.98	1M09G7D
		16QAM	0.303	24.81	1M09D7W
		64QAM	0.22	23.42	1M09D7W
		256QAM	0.125	20.96	1M09D7W
3 MHz	1851.5 ~ 1913.5	QPSK	0.322	25.08	2M70G7D
		16QAM	0.289	24.61	2M70D7W
		64QAM	0.233	23.67	2M70D7W
		256QAM	0.11	20.41	2M70D7W
5 MHz	1852.5 ~ 1912.5	QPSK	0.33	25.18	4M50G7D
		16QAM	0.282	24.51	4M50D7W
		64QAM	0.22	23.42	4M49D7W
		256QAM	0.109	20.36	4M50D7W
10 MHz	1855 ~ 1910	QPSK	0.333	25.22	8M98G7D
		16QAM	0.273	24.36	8M99D7W
		64QAM	0.229	23.6	8M98D7W
		256QAM	0.109	20.39	8M98D7W
15 MHz	1857.5 ~ 1907.5	QPSK	0.33	25.18	13M5G7D
		16QAM	0.272	24.34	13M5D7W
		64QAM	0.225	23.52	13M5D7W
		256QAM	0.108	20.35	13M5D7W
20 MHz	1860 ~ 1905	QPSK	0.335	25.25	18M0G7D
		16QAM	0.28	24.47	18M0D7W
		64QAM	0.229	23.6	18M0D7W
		256QAM	0.112	20.49	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	0.214	23.3	1M09G7D
		16QAM	0.187	22.71	1M09D7W
		64QAM	0.153	21.86	1M09D7W
		256QAM	0.073	18.64	1M09D7W
3 MHz	815.5 ~ 822.5	QPSK	0.216	23.35	2M70G7D
		16QAM	0.186	22.69	2M70D7W
		64QAM	0.152	21.83	2M70D7W
		256QAM	0.073	18.66	2M70D7W
5 MHz	816.5 ~ 821.5	QPSK	0.216	23.35	4M50G7D
		16QAM	0.187	22.72	4M50D7W
		64QAM	0.155	21.9	4M50D7W
		256QAM	0.074	18.69	4M50D7W
10 MHz	819	QPSK	0.221	23.44	8M98G7D
		16QAM	0.182	22.61	8M98D7W
		64QAM	0.144	21.58	8M97D7W
		256QAM	0.071	18.5	8M98D7W

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	0.214	23.3	1M09G7D
		16QAM	0.189	22.77	1M09D7W
		64QAM	0.144	21.57	1M09D7W
		256QAM	0.072	18.56	1M09D7W
3 MHz	825.5 ~ 847.5	QPSK	0.214	23.31	2M70G7D
		16QAM	0.184	22.65	2M70D7W
		64QAM	0.152	21.83	2M70D7W
		256QAM	0.071	18.49	2M70D7W
5 MHz	826.5 ~ 846.5	QPSK	0.219	23.4	4M50G7D
		16QAM	0.185	22.67	4M50D7W
		64QAM	0.156	21.93	4M49D7W
		256QAM	0.074	18.69	4M50D7W
10 MHz	829 ~ 844	QPSK	0.218	23.39	8M99G7D
		16QAM	0.185	22.67	8M98D7W
		64QAM	0.152	21.82	8M98D7W
		256QAM	0.076	18.83	8M98D7W
15 MHz	831.5 ~ 841.5	QPSK	0.22	23.43	13M5G7D
		16QAM	0.182	22.6	13M5D7W
		64QAM	0.151	21.79	13M5D7W
		256QAM	0.07	18.46	13M5D7W

LTE Band 41

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
5 MHz	2498.5 ~ 2687.5	QPSK	0.327	25.15	4M50G7D
		16QAM	0.274	24.38	4M50D7W
		64QAM	0.211	23.25	4M49D7W
		256QAM	0.115	20.62	4M49D7W
10 MHz	2501 ~ 2685	QPSK	0.327	25.14	8M98G7D
		16QAM	0.272	24.34	8M99D7W
		64QAM	0.207	23.16	8M98D7W
		256QAM	0.108	20.34	8M98D7W
15 MHz	2503.5 ~ 2682.5	QPSK	0.322	25.08	13M5G7D
		16QAM	0.259	24.13	13M5D7W
		64QAM	0.228	23.57	13M5D7W
		256QAM	0.11	20.43	13M5D7W
20 MHz	2506 ~ 2680	QPSK	0.333	25.22	18M0G7D
		16QAM	0.284	24.53	18M0D7W
		64QAM	0.23	23.62	18M0D7W
		256QAM	0.111	20.46	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	0.313	24.95	1M09G7D
		16QAM	0.276	24.41	1M09D7W
		64QAM	0.227	23.56	1M09D7W
		256QAM	0.11	20.41	1M09D7W
3 MHz	1711.5 ~ 1778.5	QPSK	0.324	25.1	2M70G7D
		16QAM	0.303	24.81	2M71D7W
		64QAM	0.218	23.38	2M70D7W
		256QAM	0.11	20.43	2M70D7W
5 MHz	1712.5 ~ 1777.5	QPSK	0.317	25.01	4M50G7D
		16QAM	0.295	24.7	4M50D7W
		64QAM	0.222	23.46	4M49D7W
		256QAM	0.11	20.41	4M50D7W
10 MHz	1715 ~ 1775	QPSK	0.323	25.09	8M98G7D
		16QAM	0.27	24.31	8M98D7W
		64QAM	0.214	23.3	8M98D7W
		256QAM	0.104	20.17	8M98D7W
15 MHz	1717.5 ~ 1772.5	QPSK	0.332	25.21	13M5G7D
		16QAM	0.279	24.45	13M5D7W
		64QAM	0.214	23.31	13M5D7W
		256QAM	0.104	20.16	13M5D7W

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
20 MHz	1720 ~ 1770	QPSK	0.336	25.26	18M0G7D
		16QAM	0.273	24.36	18M0D7W
		64QAM	0.207	23.15	18M0D7W
		256QAM	0.112	20.5	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	0.205	23.12	4M50G7D
		16QAM	0.175	22.44	4M50D7W
		64QAM	0.14	21.47	4M50D7W
		256QAM	0.069	18.39	4M50D7W
10 MHz	668 ~ 693	QPSK	0.205	23.11	8M98G7D
		16QAM	0.171	22.34	8M98D7W
		64QAM	0.14	21.45	8M98D7W
		256QAM	0.064	18.09	8M97D7W
15 MHz	670.5 ~ 690.5	QPSK	0.207	23.17	13M5G7D
		16QAM	0.171	22.34	13M5D7W
		64QAM	0.135	21.29	13M5D7W
		256QAM	0.072	18.57	13M5D7W
20 MHz	673 ~ 688	QPSK	0.209	23.2	18M0G7D
		16QAM	0.169	22.27	18M0D7W
		64QAM	0.135	21.3	18M0D7W
		256QAM	0.065	18.14	18M0D7W

- For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type		Dipole
Antenna Connector		SMA
Brand		Panorama Antennas Ltd
Model		LPBEM-6-60
Band	Freq. Range (MHz)	Peak Gain (dBi)
GSM 850	824 ~ 849	1.1
GSM 1900	1850 ~ 1910	0.9
WCDMA B2	1850 ~ 1910	0.9
WCDMA B4	1710 ~ 1755	1
WCDMA B5	824 ~ 849	1.1
LTE B2	1850 ~ 1910	0.9
LTE B4	1710 ~ 1755	1
LTE B5	824 ~ 849	1.1
LTE B7	2500 ~ 2570	1.2
LTE B12	698 ~ 716	1.3
LTE B13	777 ~ 787	1.2
LTE B14	788 ~ 798	1.2
LTE B17	704 ~ 716	1.3
LTE B25	1850 ~ 1915	1
LTE B26	814 ~ 849	1.1
LTE B41	2496 ~ 2690	1.1
LTE B48	3550 ~ 3700	1.7
LTE B66	1710 ~ 1780	1
LTE B71	663 ~ 698	1

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

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. For GSM bands, this device was tested under all bandwidths, RB configurations and modulations. The worst case was found in GSM mode. Therefore, only EIRP/ERP, modulation characteristics, bandwidth, peak to average ratio and conducted spurious emission items had been tested under GSM and GPRS mode, the other items were performed under GSM mode. For radiated spurious emissions, choose the maximum EIRP/ERP power worst case for final test. 3. For WCDMA bands, this device was tested under all bandwidths, RB configurations and modulations. The worst case was found in WCDMA mode. Therefore, only EIRP/ERP, modulation characteristics, bandwidth, peak to average ratio and conducted spurious emission items had been tested under WCDMA, HSDPA and HSUPA mode, the other items were performed under WCDMA mode only. For radiated spurious emissions, choose the maximum EIRP/ERP power worst case for final test. 4. For LTE bands, this device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation. Therefore, only EIRP/ERP, modulation characteristics, bandwidth and peak to average ratio items had been tested under QPSK, 16QAM, 64QAM and 256QAM mode, the other items were performed under QPSK mode only. For radiated spurious emissions, choose the maximum EIRP/ERP power and 1RB offset worst case for final test. 5. For radiated spurious emissions below 1 GHz, the worst case radiated emissions mode above 1 GHz is selected for final testing.
Worst Case:	1. X-axis / Y-axis / Z-axis Worst Condition: EUT: X-axis, Ant.: Z-axis

Following channel(s) was (were) selected for the final test as listed below:

3.3.1 GSM 850

Test Item	Tested Channel	Mode
Effective Radiated Power	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	GSM, GPRS, EGPRS
Modulation Characteristics	189 (836.40 MHz)	GSM, GPRS, EGPRS
Peak to Average Ratio	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	GSM, GPRS, EGPRS
Bandwidth	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	GSM, GPRS, EGPRS
Conducted Spurious Emission	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	GSM, GPRS, EGPRS
Radiated Spurious Emissions below 1GHz	251 (848.80 MHz)	GSM, EGPRS
Radiated Spurious Emissions above 1GHz	128 (824.20 MHz) 189 (836.40 MHz) 251 (848.80 MHz)	GSM, EGPRS
Frequency Stability	128 (824.20 MHz) 251 (848.80 MHz)	GSM, EGPRS

3.3.2 GSM 1900

Test Item	Tested Channel	Mode
Equivalent Isotropically Radiated Power	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	GSM, GPRS, EGPRS
Modulation Characteristics	661 (1880.00 MHz)	GSM, GPRS, EGPRS
Peak to Average Ratio	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	GSM, GPRS, EGPRS
Bandwidth	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	GSM, GPRS, EGPRS
Conducted Spurious Emission	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	GSM, GPRS, EGPRS
Radiated Spurious Emissions below 1GHz	810 (1909.80 MHz)	GSM, EGPRS
Radiated Spurious Emissions above 1GHz	512 (1850.20 MHz) 661 (1880.00 MHz) 810 (1909.80 MHz)	GSM, EGPRS
Frequency Stability	512 (1850.20 MHz) 810 (1909.80 MHz)	GSM, EGPRS

3.3.3 WCDMA Band II

Test Item	Tested Channel	Mode
Equivalent Isotropically Radiated Power	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	WCDMA HSDPA HSUPA
Modulation Characteristics	9400 (1880.00 MHz)	WCDMA HSDPA HSUPA
Peak to Average Ratio	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	WCDMA HSDPA HSUPA
Bandwidth	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	WCDMA HSDPA HSUPA
Conducted Spurious Emissions	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	9538 (1907.60 MHz)	WCDMA
Radiated Spurious Emissions above 1GHz	9262 (1852.40 MHz) 9400 (1880.00 MHz) 9538 (1907.60 MHz)	WCDMA
Frequency Stability	9262 (1852.40 MHz) 9538 (1907.60 MHz)	WCDMA

3.3.4 WCDMA Band IV

Test Item	Tested Channel	Mode
Equivalent Isotropically Radiated Power	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	WCDMA HSDPA HSUPA
Modulation Characteristics	1413 (1732.60 MHz)	WCDMA HSDPA HSUPA
Peak to Average Ratio	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	WCDMA HSDPA HSUPA
Bandwidth	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	WCDMA HSDPA HSUPA
Conducted Spurious Emissions	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	1513 (1752.60 MHz)	WCDMA
Radiated Spurious Emissions above 1GHz	1312 (1712.40 MHz) 1413 (1732.60 MHz) 1513 (1752.60 MHz)	WCDMA
Frequency Stability	1312 (1712.40 MHz) 1513 (1752.60 MHz)	WCDMA

3.3.5 WCDMA Band V

Test Item	Tested Channel	Mode
Effective Radiated Power	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	WCDMA HSDPA HSUPA
Modulation Characteristics	4182 (836.40 MHz)	WCDMA HSDPA HSUPA
Peak to Average Ratio	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	WCDMA HSDPA HSUPA
Bandwidth	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	WCDMA HSDPA HSUPA
Conducted Spurious Emissions	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	WCDMA HSDPA HSUPA
Radiated Spurious Emissions below 1GHz	4233 (846.60 MHz)	WCDMA
Radiated Spurious Emissions above 1GHz	4132 (826.40 MHz) 4182 (836.40 MHz) 4233 (846.60 MHz)	WCDMA
Frequency Stability	4132 (826.40 MHz) 4233 (846.60 MHz)	WCDMA

3.3.6 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	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK	1 RB Full RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK	1 RB Full RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK	1 RB Full RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK	1 RB Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	18900(1880.00 MHz)	1.4 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	18700(1860.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	Full RB

3.3.7 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	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK	1 RB Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK	1 RB Full RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK	1 RB Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	20175(1732.50 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	1 RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	1 RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability	20050(1720.00 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	Full RB

3.3.8 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	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

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

3.3.9 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	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	20775(2502.50 MHz) 21100(2535.00 MHz) 21425(2567.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20800(2505.00 MHz) 21100(2535.00 MHz) 21400(2565.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20825(2507.50 MHz) 21100(2535.00 MHz) 21375(2562.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20850(2510.00 MHz) 21100(2535.00 MHz) 21350(2560.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

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

3.3.10LTE 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	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

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

3.3.11 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	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23230(782.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK	1 RB
	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23230(782.00 MHz)	10 MHz	QPSK	Full RB

3.3.12 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	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23330(793.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23305(790.50 MHz) 23330(793.00 MHz) 23355(795.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23330(793.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23355(795.50 MHz)	5 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

3.3.13 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	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23790(710.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23755(706.50 MHz) 23790(710.00 MHz) 23825(713.50 MHz)	5 MHz	QPSK	1 RB
	23780(709.00 MHz) 23790(710.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability	23780(709.00 MHz) 23800(711.00 MHz)	10 MHz	QPSK	Full RB

3.3.14 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	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

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

3.3.1 LTE Band 26 (814 MHz ~ 824 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically 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
Bandwidth	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26740(819.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26697(814.70 MHz)	1.4 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

3.3.2 LTE Band 26 (824 MHz ~ 849 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically 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	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

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

3.3.3 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	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

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

3.3.4 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	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

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

3.3.5 LTE Band 71

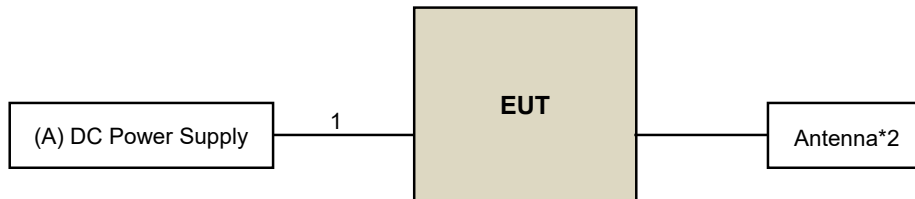
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half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

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

3.4 Test Program Used and Operation Descriptions

EUT link Radio Communication Analyzer has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices



Under Table

Remote Site



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	DC Power Supply	OWON	ODP3122	ODP31222137036	NA	Provided by Lab
B	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

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

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57140953	2025/7/31	2026/7/30
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2026/2/12	2027/2/11
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/5/30 ~ 2026/6/30

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57140953	2025/7/31	2026/7/30
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2026/2/12	2027/2/11
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/5/30 ~ 2026/6/22

4.3 Peak to Average Ratio

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

4.4 Bandwidth

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

4.5 Conducted Spurious Emissions

Refer to section 4.2 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 Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier EMCI	EMC 330H	980112	2025/9/21	2026/9/20
	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2025/9/21	2026/9/20
Signal & Spectrum Analyzer R&S	FSVA3044	100904	2025/7/1	2026/6/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5(Hwaya).
2. Tested Date: 2026/3/30 ~ 2026/4/15

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2025/11/9	2026/11/8
	BBHA 9170	148	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY51210203	2025/8/27	2026/8/26
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
	EMC118A45SE	980809	2025/4/24	2026/4/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
	EMC104-SM-SM- 8000+3000	171005	2025/9/21	2026/9/20
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2025/9/21	2026/9/20
Signal & Spectrum Analyzer R&S	FSVA3044	100904	2025/7/1	2026/6/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5(Hwaya).
2. Tested Date: 2026/3/25 ~ 2026/4/15

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	2026/6/5	2027/6/4
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2026/7/2	2027/7/1

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/7/21

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For GSM850, WCDMA Band V, LTE Band 5:

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

For GSM1900, WCDMA Band II, LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

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

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

For LTE Band 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 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 WCDMA Band IV, 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 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.

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 GSM850, GSM1900, WCDMA Band II, WCDMA Band V, 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 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 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 WCDMA Band IV, 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

5.6 Radiated Spurious Emissions below 1GHz

For GSM850, GSM1900, WCDMA Band II, WCDMA Band V, 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 14:

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

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

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

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

For LTE Band 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 WCDMA Band IV, 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.

5.7 Radiated Spurious Emissions above 1GHz

For GSM850, GSM1900, WCDMA Band II, WCDMA Band V, 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 14:

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

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

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

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

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

For LTE Band 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 WCDMA Band IV, 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.

5.8 Frequency Stability

For GSM850, GSM1900, WCDMA Band V, 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 WCDMA Band II, WCDMA Band IV, LTE Band 2, LTE Band 4, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 17, LTE Band 25, LTE Band 41, LTE Band 66, LTE Band 71:

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

For LTE Band 14:

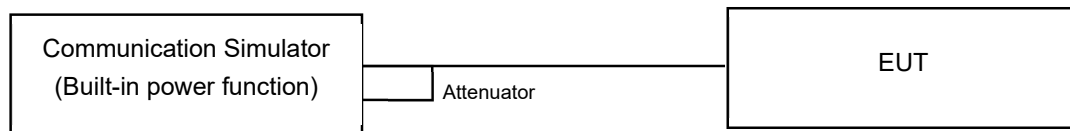
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



Note: The correction factor has already been compensated by the instrument.

6.1.2 Test Procedure

Conducted Power Measurement:

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

Maximum EIRP / ERP

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

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

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

where

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

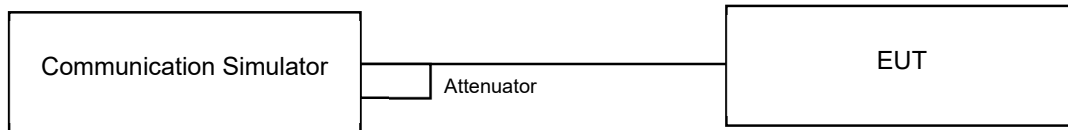
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

6.2 Modulation Characteristics

6.2.1 Test Setup



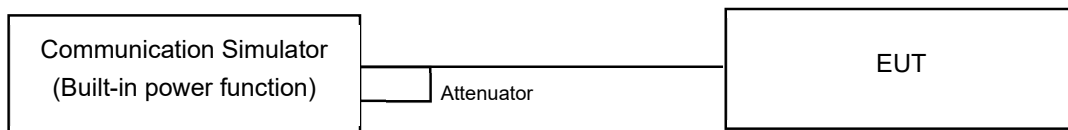
Note: The correction factor has already been compensated by the instrument.

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



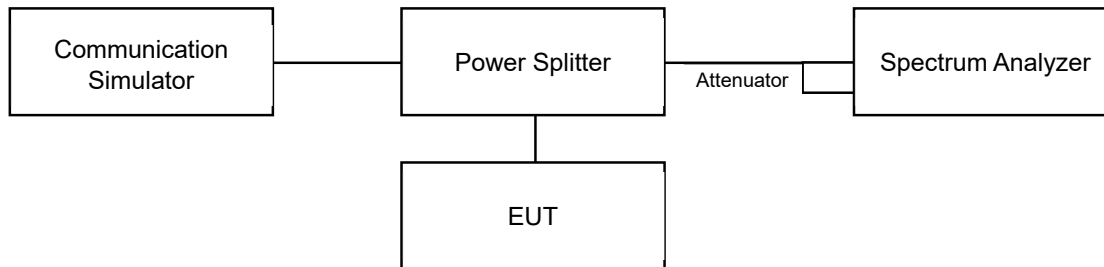
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

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

6.4 Bandwidth

6.4.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

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

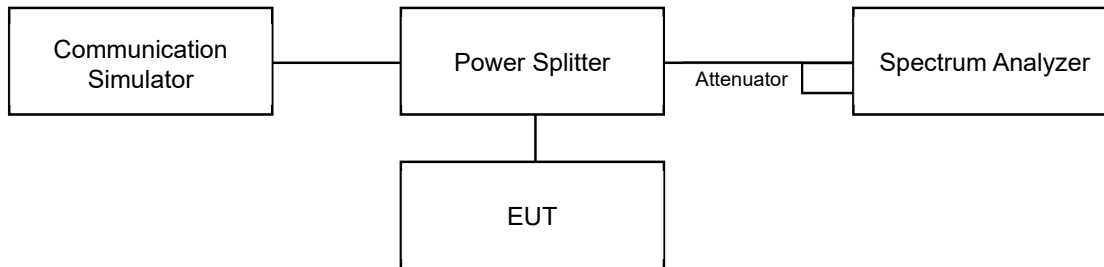
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and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

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

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- e. If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported by providing plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

6.5.2 Test Procedure

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

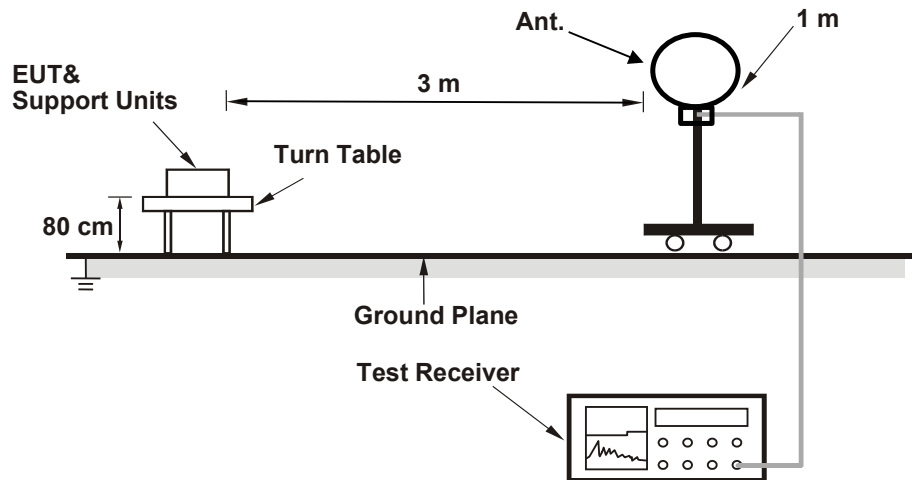
For Emission Mask:

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 2 channels: low and high operational frequency range.
- Accoding to FCC 47 CFR part 90.691(a), the spectrum set RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
For example: Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
- Record the maximum power value test plot.

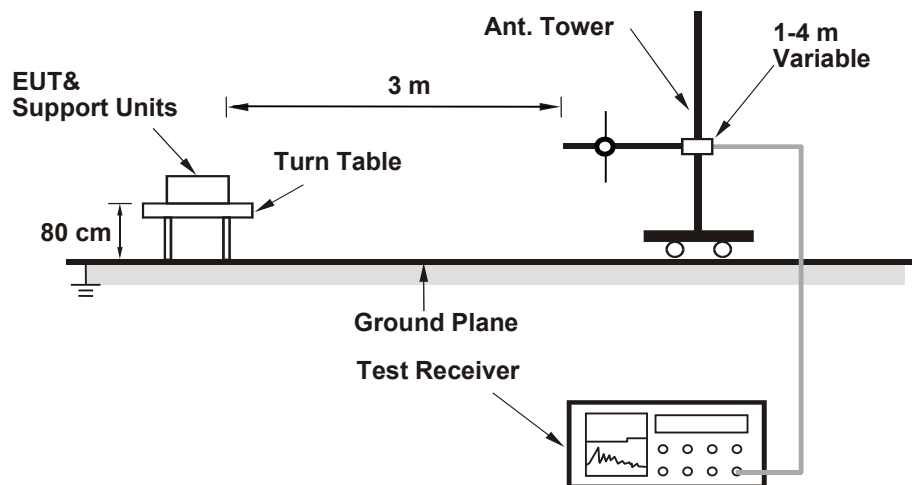
6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

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

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

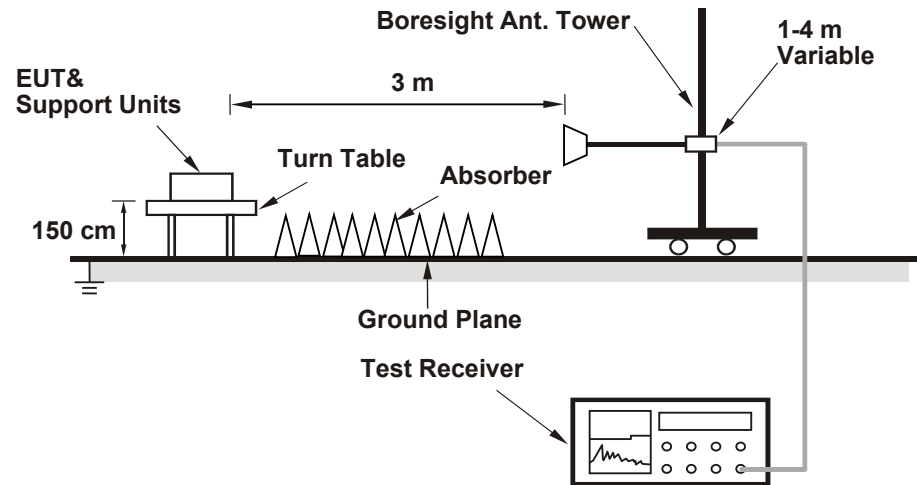
Note:

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

6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



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

6.7.2 Test Procedure

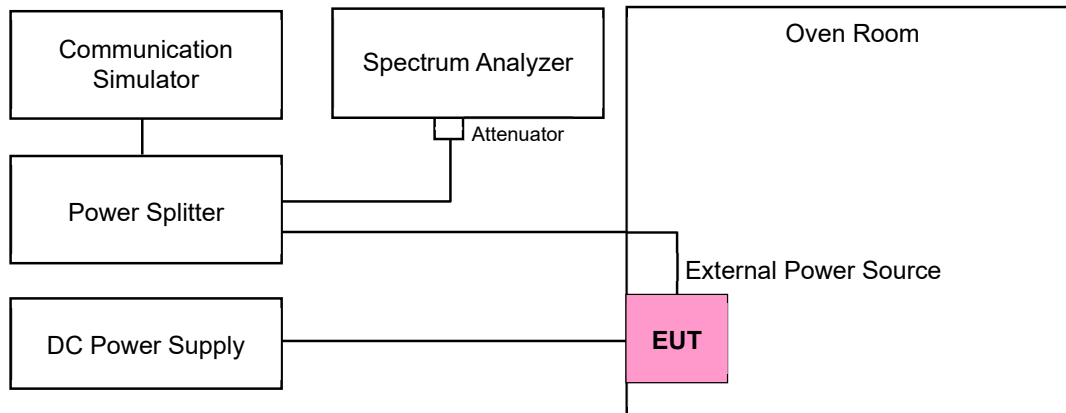
The EUT is configured to set data modulation and maximum power using WWAN technology.

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

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

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

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

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

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

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao
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7.1.1 GSM 850

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.86	33.05	33.11
GPRS	32.77	33.00	33.02
EGPRS	32.70	32.92	32.98

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
GSM	32.86	33.11	31.81	32.06	38.45
GPRS	32.77	33.02	31.72	31.97	38.45
EGPRS	32.70	32.98	31.65	31.93	38.45

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

7.1.2 GSM 1900

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM	30.30	30.55	30.49
GPRS	30.28	30.51	30.46
EGPRS	30.22	30.43	30.40

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
GSM	30.30	30.55	31.20	31.45	33.01
GPRS	30.28	30.51	31.18	31.41	33.01
EGPRS	30.22	30.43	31.12	31.33	33.01

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

7.1.3 WCDMA Band II

Measurement Conducted Power (dBm)			
Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency	1852.4	1880	1907.6
RMC 12.2K	24.35	24.50	24.49
HSDPA	23.61	23.88	23.86
HSUPA	23.14	23.36	23.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
RMC 12.2K	24.35	24.50	25.25	25.40	33.01
HSDPA	23.61	23.88	24.51	24.78	33.01
HSUPA	23.14	23.36	24.04	24.26	33.01

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

7.1.4 WCDMA Band IV

Measurement Conducted Power (dBm)			
Band	WCDMA IV		
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	24.49	24.50	24.48
HSDPA	23.79	23.82	23.70
HSUPA	23.32	23.36	23.30

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
RMC 12.2K	24.48	24.50	25.48	25.50	30
HSDPA	23.70	23.82	24.70	24.82	30
HSUPA	23.30	23.36	24.30	24.36	30

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

7.1.5 WCDMA Band V

Measurement Conducted Power (dBm)			
Band	WCDMA V		
TX Channel	4132	4182	4233
Rx Channel	4357	4407	4458
Frequency	826.4	836.4	846.6
RMC 12.2K	24.48	24.50	24.49
HSDPA	24.27	24.33	24.30
HSUPA	23.77	23.84	23.81

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
RMC 12.2K	24.48	24.50	23.43	23.45	38.45
HSDPA	24.27	24.33	23.22	23.28	38.45
HSUPA	23.77	23.84	22.72	22.79	38.45

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

7.1.6 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	23.78	23.64	23.86
	1	2	23.91	23.75	23.64
	1	5	23.72	23.63	23.72
	3	0	23.70	23.66	23.92
	3	1	23.67	23.68	23.90
	3	3	23.63	23.73	23.99
	6	0	22.67	22.72	22.71
16QAM	1	0	23.20	23.17	23.13
	1	2	23.35	23.23	23.22
	1	5	23.25	23.40	23.16
	3	0	22.93	23.20	22.92
	3	1	23.20	22.88	22.81
	3	3	23.02	22.65	23.10
	6	0	21.72	21.74	21.91
64QAM	1	0	22.18	22.17	22.06
	1	2	21.81	21.51	21.54
	1	5	22.04	22.16	22.26
	3	0	22.14	22.19	22.15
	3	1	21.87	22.08	21.83
	3	3	21.88	21.99	21.65
	6	0	20.91	20.92	21.19
256QAM	1	0	18.81	19.03	18.46
	1	2	18.59	18.94	18.55
	1	5	19.32	18.69	18.95
	3	0	18.81	18.79	19.00
	3	1	19.02	19.03	19.03
	3	3	18.80	18.73	18.91
	6	0	18.55	18.77	18.68

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.67	23.99	23.57	24.89	33.01
16QAM	21.72	23.4	22.62	24.3	33.01
64QAM	20.91	22.26	21.81	23.16	33.01
256QAM	18.46	19.32	19.36	20.22	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	23.60	23.66	23.61
	1	7	23.93	23.80	23.99
	1	14	23.64	23.67	23.76
	8	0	22.76	22.73	22.80
	8	3	22.82	22.68	22.82
	8	7	22.71	22.77	22.89
	15	0	22.76	22.83	22.75
16QAM	1	0	23.08	22.97	22.99
	1	7	23.04	23.62	23.54
	1	14	23.45	23.33	23.16
	8	0	21.91	22.08	21.85
	8	3	21.80	21.83	21.87
	8	7	21.91	21.79	21.95
	15	0	21.72	21.64	21.69
64QAM	1	0	21.76	21.57	21.66
	1	7	22.03	21.90	22.77
	1	14	21.88	22.12	21.97
	8	0	20.84	20.77	20.95
	8	3	20.86	20.91	20.92
	8	7	20.74	20.94	20.91
	15	0	20.81	20.86	20.94
256QAM	1	0	18.68	18.53	18.72
	1	7	18.80	18.75	18.68
	1	14	18.83	18.51	18.93
	8	0	18.68	18.67	18.72
	8	3	18.82	18.73	18.77
	8	7	18.78	18.80	18.85
	15	0	18.70	18.78	18.91

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.68	23.99	23.58	24.89	33.01
16QAM	21.64	23.62	22.54	24.52	33.01
64QAM	20.74	22.77	21.64	23.67	33.01
256QAM	18.51	18.93	19.41	19.83	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	23.96	23.85	23.86
	1	12	23.69	23.81	23.83
	1	24	23.85	23.70	24.21
	12	0	22.78	22.80	22.88
	12	6	22.86	22.80	22.83
	12	13	22.83	22.80	22.88
	25	0	22.78	22.71	22.83
16QAM	1	0	23.45	22.83	23.32
	1	12	23.25	23.31	22.94
	1	24	23.03	22.82	22.93
	12	0	21.68	22.00	21.84
	12	6	21.79	21.71	21.88
	12	13	21.93	22.02	21.88
	25	0	21.83	22.87	21.91
64QAM	1	0	22.23	22.47	22.19
	1	12	21.81	22.11	22.35
	1	24	21.76	22.40	21.74
	12	0	20.80	20.91	20.83
	12	6	20.92	20.77	20.75
	12	13	20.92	20.90	20.95
	25	0	20.81	20.88	20.81
256QAM	1	0	18.78	18.91	19.26
	1	12	18.51	19.07	19.26
	1	24	18.87	18.64	18.81
	12	0	18.76	18.76	18.92
	12	6	18.79	18.73	18.97
	12	13	18.73	18.85	18.87
	25	0	18.83	18.72	18.82

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.71	24.21	23.61	25.11	33.01
16QAM	21.68	23.45	22.58	24.35	33.01
64QAM	20.75	22.47	21.65	23.37	33.01
256QAM	18.51	19.26	19.41	20.16	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	23.67	23.76	23.66
	1	24	23.77	23.75	23.68
	1	49	24.16	24.11	23.68
	25	0	22.56	22.84	22.82
	25	12	22.81	22.88	22.80
	25	25	22.84	22.85	22.89
	50	0	22.80	22.82	22.78
16QAM	1	0	22.97	23.26	22.97
	1	24	23.10	22.88	23.11
	1	49	23.22	22.73	23.20
	25	0	21.75	21.83	21.91
	25	12	21.86	21.85	21.87
	25	25	21.83	21.91	22.01
	50	0	21.85	21.82	21.70
64QAM	1	0	22.33	22.53	22.20
	1	24	22.16	22.07	22.00
	1	49	21.76	22.32	21.43
	25	0	20.83	20.80	20.77
	25	12	20.82	20.86	20.83
	25	25	20.92	20.87	20.72
	50	0	20.90	20.74	20.71
256QAM	1	0	18.85	18.81	19.18
	1	24	18.60	19.21	19.17
	1	49	19.07	19.30	18.66
	25	0	18.84	18.82	18.89
	25	12	18.83	18.75	18.84
	25	25	18.84	18.88	18.98
	50	0	18.89	18.59	18.97

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.56	24.16	23.46	25.06	33.01
16QAM	21.7	23.26	22.6	24.16	33.01
64QAM	20.71	22.53	21.61	23.43	33.01
256QAM	18.59	19.3	19.49	20.2	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	23.55	23.92	23.94
	1	37	24.22	23.94	23.86
	1	74	23.82	23.87	23.91
	36	0	22.80	22.83	22.78
	36	19	22.83	22.77	22.80
	36	39	22.84	22.93	22.91
	75	0	22.82	22.79	22.86
16QAM	1	0	22.83	23.03	22.78
	1	37	23.35	22.94	22.97
	1	74	22.65	23.40	23.46
	36	0	21.75	21.79	21.86
	36	19	21.85	21.79	21.82
	36	39	21.75	21.89	21.95
	75	0	21.81	21.89	21.88
64QAM	1	0	22.14	21.73	21.70
	1	37	21.71	22.15	22.48
	1	74	21.95	22.07	21.81
	36	0	20.78	20.82	20.91
	36	19	20.80	20.76	20.81
	36	39	20.73	20.78	20.98
	75	0	20.52	21.04	20.85
256QAM	1	0	19.13	19.10	18.91
	1	37	18.28	19.07	18.87
	1	74	18.91	19.04	18.64
	36	0	18.78	18.79	18.82
	36	19	18.77	18.86	18.89
	36	39	18.76	18.85	18.94
	75	0	18.88	18.91	18.92

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.77	24.22	23.67	25.12	33.01
16QAM	21.75	23.46	22.65	24.36	33.01
64QAM	20.52	22.48	21.42	23.38	33.01
256QAM	18.28	19.13	19.18	20.03	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	23.80	24.50	23.79
	1	50	24.06	23.74	23.75
	1	99	24.01	23.90	23.82
	50	0	22.78	22.88	22.80
	50	25	22.85	22.87	22.86
	50	50	22.89	22.82	22.79
	100	0	22.90	22.71	22.79
16QAM	1	0	23.00	22.69	23.59
	1	50	23.15	23.01	22.96
	1	99	23.11	23.30	23.11
	50	0	21.71	21.84	21.86
	50	25	21.93	21.78	21.80
	50	50	21.77	22.04	21.93
	100	0	21.86	21.84	21.81
64QAM	1	0	22.05	21.67	22.00
	1	50	21.79	22.04	21.96
	1	99	22.21	22.21	21.80
	50	0	20.76	20.77	20.79
	50	25	20.90	20.79	20.96
	50	50	20.88	20.80	20.86
	100	0	20.81	20.79	20.77
256QAM	1	0	18.79	18.69	18.72
	1	50	19.15	19.27	19.17
	1	99	18.08	18.62	19.33
	50	0	18.76	18.72	18.86
	50	25	18.89	18.89	18.89
	50	50	18.81	18.89	18.85
	100	0	18.82	18.74	18.92

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.71	24.5	23.61	25.4	33.01
16QAM	21.71	23.59	22.61	24.49	33.01
64QAM	20.76	22.21	21.66	23.11	33.01
256QAM	18.08	19.33	18.98	20.23	33.01

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

7.1.7 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	23.77	23.62	23.57
	1	2	23.95	23.54	23.62
	1	5	23.94	23.32	23.61
	3	0	23.50	23.70	23.65
	3	1	23.62	23.58	23.55
	3	3	23.50	23.69	23.49
	6	0	22.76	22.71	22.69
16QAM	1	0	23.49	23.48	22.71
	1	2	23.48	23.49	22.97
	1	5	22.70	22.71	22.84
	3	0	23.00	22.84	22.89
	3	1	23.04	23.05	22.58
	3	3	22.83	23.25	22.75
	6	0	21.74	21.81	21.78
64QAM	1	0	21.35	22.09	22.06
	1	2	21.91	21.87	21.89
	1	5	21.48	22.35	22.02
	3	0	21.81	22.12	21.68
	3	1	22.26	22.00	21.94
	3	3	21.70	22.09	21.94
	6	0	20.84	20.92	20.95
256QAM	1	0	19.05	19.29	18.74
	1	2	18.71	18.59	19.19
	1	5	18.50	18.69	18.81
	3	0	18.63	18.83	18.63
	3	1	18.99	19.03	18.69
	3	3	18.74	18.82	18.80
	6	0	18.74	18.77	18.62

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.69	23.95	23.69	24.95	30
16QAM	21.74	23.49	22.74	24.49	30
64QAM	20.84	22.35	21.84	23.35	30
256QAM	18.5	19.29	19.5	20.29	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	23.67	23.71	23.58
	1	7	23.65	23.95	23.79
	1	14	23.59	23.80	23.54
	8	0	22.82	22.71	22.59
	8	3	22.95	22.78	22.69
	8	7	22.77	22.82	22.72
	15	0	22.75	22.69	22.66
16QAM	1	0	23.09	22.84	22.77
	1	7	23.15	23.12	23.20
	1	14	23.07	22.85	23.40
	8	0	22.01	21.87	21.71
	8	3	21.83	21.91	21.80
	8	7	21.88	21.82	21.86
	15	0	21.82	21.79	21.70
64QAM	1	0	22.11	21.81	21.98
	1	7	22.36	22.18	21.92
	1	14	21.52	22.15	22.02
	8	0	20.78	20.70	20.60
	8	3	20.88	20.87	20.97
	8	7	20.78	20.95	20.73
	15	0	20.72	20.69	20.77
256QAM	1	0	18.81	18.82	18.66
	1	7	18.97	18.98	18.96
	1	14	18.89	18.75	19.16
	8	0	18.81	18.86	18.79
	8	3	18.82	18.88	18.82
	8	7	18.80	18.95	18.77
	15	0	18.82	18.74	18.72

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.59	23.95	23.59	24.95	30
16QAM	21.7	23.4	22.7	24.4	30
64QAM	20.6	22.36	21.6	23.36	30
256QAM	18.66	19.16	19.66	20.16	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	23.76	23.78	23.63
	1	12	23.76	23.77	23.56
	1	24	23.81	23.49	23.67
	12	0	22.81	22.73	22.75
	12	6	22.85	22.84	22.84
	12	13	22.82	22.90	22.79
	25	0	22.78	22.72	22.74
16QAM	1	0	22.85	23.10	23.14
	1	12	23.23	23.09	23.00
	1	24	23.07	23.45	23.02
	12	0	21.84	21.84	21.58
	12	6	21.97	21.88	21.86
	12	13	21.79	21.96	21.78
	25	0	21.90	22.89	21.77
64QAM	1	0	21.94	21.85	22.29
	1	12	21.90	22.05	22.60
	1	24	21.78	21.93	22.12
	12	0	20.82	20.78	20.71
	12	6	21.03	21.02	20.77
	12	13	20.79	20.76	21.06
	25	0	20.81	20.84	20.77
256QAM	1	0	18.89	18.70	18.81
	1	12	19.13	19.30	18.92
	1	24	18.97	19.01	18.90
	12	0	18.84	18.70	18.85
	12	6	18.86	18.95	18.81
	12	13	18.79	18.77	18.80
	25	0	18.67	18.74	18.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.72	23.81	23.72	24.81	30
16QAM	21.58	23.45	22.58	24.45	30
64QAM	20.71	22.6	21.71	23.6	30
256QAM	18.67	19.3	19.67	20.3	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	23.61	23.74	23.62
	1	24	23.75	23.69	23.80
	1	49	23.77	23.83	23.57
	25	0	22.77	22.76	22.70
	25	12	22.63	22.79	22.71
	25	25	22.76	22.84	22.81
	50	0	22.84	22.72	22.64
16QAM	1	0	22.79	22.67	23.36
	1	24	23.15	23.12	23.16
	1	49	22.95	23.11	22.93
	25	0	21.76	21.72	21.63
	25	12	21.81	21.91	21.85
	25	25	21.85	21.86	21.79
	50	0	21.80	21.78	21.58
64QAM	1	0	22.08	22.03	21.86
	1	24	21.89	21.86	21.85
	1	49	22.01	21.89	21.85
	25	0	20.77	20.74	20.80
	25	12	20.91	20.81	20.71
	25	25	20.90	20.76	20.94
	50	0	20.96	20.78	20.76
256QAM	1	0	18.59	19.23	18.80
	1	24	19.15	19.20	19.03
	1	49	18.62	18.95	19.13
	25	0	18.81	18.68	18.70
	25	12	18.84	18.72	18.80
	25	25	18.78	18.83	18.81
	50	0	18.79	18.73	18.81

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.63	23.83	23.63	24.83	30
16QAM	21.58	23.36	22.58	24.36	30
64QAM	20.71	22.08	21.71	23.08	30
256QAM	18.59	19.23	19.59	20.23	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	23.72	24.05	24.02
	1	37	23.79	23.61	24.16
	1	74	23.81	23.87	23.61
	36	0	22.71	22.74	22.68
	36	19	22.78	22.76	22.67
	36	39	22.75	22.82	22.75
	75	0	22.85	22.75	22.66
16QAM	1	0	23.09	23.05	23.02
	1	37	23.09	22.72	22.76
	1	74	22.64	22.72	23.06
	36	0	21.72	21.78	21.71
	36	19	21.83	21.83	21.62
	36	39	21.83	21.78	21.77
	75	0	21.77	21.69	21.78
64QAM	1	0	22.00	22.00	21.99
	1	37	21.65	21.91	21.61
	1	74	22.18	21.85	21.97
	36	0	20.70	20.69	20.70
	36	19	20.73	20.81	20.72
	36	39	20.75	21.20	20.73
	75	0	20.88	20.51	20.53
256QAM	1	0	18.97	19.07	18.95
	1	37	18.73	19.32	19.15
	1	74	19.14	18.90	18.94
	36	0	18.70	18.74	18.62
	36	19	18.77	18.73	18.78
	36	39	18.78	18.92	18.81
	75	0	18.93	18.68	18.67

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.66	24.16	23.66	25.16	30
16QAM	21.62	23.09	22.62	24.09	30
64QAM	20.51	22.18	21.51	23.18	30
256QAM	18.62	19.32	19.62	20.32	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	23.80	24.18	23.79
	1	50	23.65	23.94	23.56
	1	99	23.81	23.70	23.65
	50	0	22.74	22.73	22.74
	50	25	22.80	22.80	22.84
	50	50	22.75	22.88	22.87
	100	0	22.78	22.78	22.79
16QAM	1	0	22.60	22.94	22.74
	1	50	22.99	22.98	22.86
	1	99	23.22	23.04	22.53
	50	0	21.76	21.71	21.80
	50	25	21.80	21.78	21.73
	50	50	21.93	21.78	21.78
	100	0	21.80	21.81	21.81
64QAM	1	0	21.62	21.91	21.46
	1	50	22.16	22.19	21.81
	1	99	21.83	22.63	22.30
	50	0	20.67	20.75	20.77
	50	25	20.81	20.73	20.77
	50	50	20.76	20.76	20.79
	100	0	20.80	20.73	20.80
256QAM	1	0	19.09	18.81	18.97
	1	50	18.77	18.84	18.75
	1	99	18.69	18.93	18.94
	50	0	18.74	18.70	18.73
	50	25	18.74	18.74	18.79
	50	50	18.86	18.86	18.82
	100	0	19.01	18.79	18.68

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.73	24.18	23.73	25.18	30
16QAM	21.71	23.22	22.71	24.22	30
64QAM	20.67	22.63	21.67	23.63	30
256QAM	18.68	19.09	19.68	20.09	30

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

7.1.8 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	24.11	24.02	23.96
	1	2	24.07	24.01	23.87
	1	5	23.87	24.08	23.58
	3	0	24.08	24.10	23.95
	3	1	24.06	24.16	23.91
	3	3	24.16	24.05	24.05
	6	0	22.94	23.05	23.06
16QAM	1	0	23.67	23.28	23.41
	1	2	23.38	23.57	23.39
	1	5	23.21	23.41	23.53
	3	0	23.15	23.20	23.12
	3	1	23.25	23.61	23.00
	3	3	23.19	23.33	23.33
	6	0	22.23	22.09	22.11
64QAM	1	0	22.12	22.49	22.34
	1	2	22.66	22.36	22.22
	1	5	22.47	22.35	22.47
	3	0	22.45	22.30	22.27
	3	1	22.46	22.41	22.65
	3	3	22.30	22.76	22.45
	6	0	21.24	21.22	20.94
256QAM	1	0	19.40	19.56	19.38
	1	2	19.31	19.27	19.20
	1	5	19.31	19.36	19.53
	3	0	19.29	19.35	19.09
	3	1	19.35	19.29	19.12
	3	3	19.16	19.22	18.93
	6	0	19.27	19.28	19.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.94	24.16	21.89	23.11	38.45
16QAM	22.09	23.67	21.04	22.62	38.45
64QAM	20.94	22.76	19.89	21.71	38.45
256QAM	18.93	19.56	17.88	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	24.20	24.17	24.01
	1	7	24.26	24.10	24.06
	1	14	23.88	23.90	23.78
	8	0	23.15	23.15	23.06
	8	3	23.21	23.13	22.96
	8	7	23.16	23.28	23.06
	15	0	23.19	23.16	22.99
16QAM	1	0	23.46	23.93	23.59
	1	7	23.53	23.41	23.55
	1	14	23.17	23.48	23.23
	8	0	22.28	22.41	22.10
	8	3	22.16	22.18	21.99
	8	7	22.23	22.24	22.13
	15	0	22.22	22.13	22.07
64QAM	1	0	22.23	22.51	22.09
	1	7	22.22	22.36	22.23
	1	14	22.34	22.21	22.36
	8	0	21.47	21.23	21.25
	8	3	21.44	21.29	21.16
	8	7	21.21	21.13	21.24
	15	0	21.33	21.11	21.12
256QAM	1	0	19.54	19.22	18.87
	1	7	18.96	19.37	19.17
	1	14	19.03	19.13	19.05
	8	0	19.24	19.29	19.23
	8	3	19.32	19.23	19.06
	8	7	19.27	19.13	19.22
	15	0	19.25	19.37	18.92

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.96	24.26	21.91	23.21	38.45
16QAM	21.99	23.93	20.94	22.88	38.45
64QAM	21.11	22.51	20.06	21.46	38.45
256QAM	18.87	19.54	17.82	18.49	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	24.22	24.31	24.16
	1	12	24.29	24.24	24.04
	1	24	24.13	24.22	24.03
	12	0	23.20	23.16	23.12
	12	6	23.25	23.15	23.04
	12	13	23.18	23.20	23.11
	25	0	23.20	23.16	23.10
16QAM	1	0	23.65	23.41	23.34
	1	12	23.36	23.48	23.29
	1	24	23.17	23.49	23.60
	12	0	22.10	22.15	22.05
	12	6	22.18	22.14	22.11
	12	13	22.22	22.11	22.15
	25	0	22.16	23.21	22.07
64QAM	1	0	22.67	22.57	22.38
	1	12	22.75	22.30	22.49
	1	24	22.64	22.72	22.49
	12	0	21.36	21.35	21.12
	12	6	21.32	21.31	21.15
	12	13	21.26	21.31	21.17
	25	0	21.25	21.16	21.04
256QAM	1	0	19.22	19.36	19.33
	1	12	18.81	19.62	19.24
	1	24	19.34	19.54	19.16
	12	0	19.20	19.26	19.20
	12	6	19.39	19.25	19.11
	12	13	19.26	19.26	19.23
	25	0	19.21	19.21	19.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.04	24.31	21.99	23.26	38.45
16QAM	22.05	23.65	21	22.6	38.45
64QAM	21.04	22.75	19.99	21.7	38.45
256QAM	18.81	19.62	17.76	18.57	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	24.13	24.36	24.25
	1	24	24.29	24.30	24.20
	1	49	24.19	24.23	23.93
	25	0	23.16	23.27	23.17
	25	12	23.21	23.19	23.16
	25	25	23.22	23.22	23.20
	50	0	23.18	23.21	23.20
16QAM	1	0	23.64	23.43	23.52
	1	24	23.30	22.96	23.60
	1	49	23.61	22.95	23.46
	25	0	22.20	22.27	22.17
	25	12	22.28	22.20	22.23
	25	25	22.25	22.24	22.23
	50	0	22.24	22.21	22.19
64QAM	1	0	22.61	22.07	22.35
	1	24	22.74	22.13	22.31
	1	49	22.56	22.61	22.05
	25	0	21.26	21.32	21.18
	25	12	21.22	21.12	21.27
	25	25	21.38	21.11	21.16
	50	0	21.30	21.36	21.24
256QAM	1	0	19.32	19.31	19.39
	1	24	19.05	19.72	19.41
	1	49	19.18	18.96	19.24
	25	0	19.22	19.21	19.14
	25	12	19.25	19.24	19.43
	25	25	19.14	19.28	19.18
	50	0	19.22	19.14	19.32

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.16	24.36	22.11	23.31	38.45
16QAM	22.17	23.64	21.12	22.59	38.45
64QAM	21.11	22.74	20.06	21.69	38.45
256QAM	18.96	19.72	17.91	18.67	38.45

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

7.1.9 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20775	CH 21100	CH 21425
			2502.5 MHz	2535 MHz	2567.5 MHz
QPSK	1	0	24.03	24.11	23.93
	1	12	24.03	24.06	24.00
	1	24	24.08	24.04	23.98
	12	0	23.14	23.13	23.07
	12	6	23.23	23.18	23.10
	12	13	23.20	23.25	23.15
	25	0	23.19	23.18	23.10
16QAM	1	0	23.31	23.27	23.81
	1	12	23.22	23.63	23.33
	1	24	24.11	23.52	23.03
	12	0	22.18	22.13	22.16
	12	6	22.30	22.34	22.34
	12	13	22.17	22.23	22.19
	25	0	22.27	23.17	22.13
64QAM	1	0	22.22	22.36	22.38
	1	12	22.21	22.25	22.16
	1	24	22.08	22.23	22.39
	12	0	21.10	21.18	21.11
	12	6	21.16	21.15	21.17
	12	13	21.17	21.16	21.16
	25	0	21.22	21.26	21.17
256QAM	1	0	19.27	19.33	19.07
	1	12	19.59	19.43	19.11
	1	24	19.10	19.48	18.92
	12	0	19.14	19.26	19.14
	12	6	19.42	19.26	19.20
	12	13	19.33	19.26	19.07
	25	0	19.30	19.25	19.13

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.07	24.11	24.27	25.31	33.01
16QAM	22.13	24.11	23.33	25.31	33.01
64QAM	21.1	22.39	22.3	23.59	33.01
256QAM	18.92	19.59	20.12	20.79	33.01

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

LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20800	CH 21100	CH 21400
			2505 MHz	2535 MHz	2565 MHz
QPSK	1	0	24.18	24.12	24.05
	1	24	24.11	24.05	24.01
	1	49	23.98	24.00	24.06
	25	0	23.15	23.10	23.10
	25	12	23.12	23.14	23.18
	25	25	23.18	23.11	23.06
	50	0	23.06	22.89	23.07
16QAM	1	0	23.52	23.71	23.77
	1	24	23.13	23.26	23.11
	1	49	22.67	22.89	23.56
	25	0	22.07	22.20	22.13
	25	12	22.19	22.28	22.22
	25	25	22.23	22.17	22.19
	50	0	22.12	22.09	22.00
64QAM	1	0	22.47	22.34	22.30
	1	24	22.52	22.43	22.15
	1	49	22.31	22.39	22.20
	25	0	21.19	21.17	21.16
	25	12	21.23	21.17	21.35
	25	25	21.26	21.24	21.05
	50	0	21.16	21.20	21.23
256QAM	1	0	19.42	19.38	18.97
	1	24	19.27	19.58	19.11
	1	49	19.60	19.45	19.42
	25	0	19.20	19.20	19.06
	25	12	19.37	19.08	19.18
	25	25	19.06	19.16	19.12
	50	0	19.19	19.13	19.22

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.89	24.18	24.09	25.38	33.01
16QAM	22	23.77	23.2	24.97	33.01
64QAM	21.05	22.52	22.25	23.72	33.01
256QAM	18.97	19.6	20.17	20.8	33.01

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

LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20825	CH 21100	CH 21375
			2507.5 MHz	2535 MHz	2562.5 MHz
QPSK	1	0	24.06	24.13	24.09
	1	37	23.88	24.07	23.86
	1	74	23.97	24.01	24.01
	36	0	23.06	23.17	22.99
	36	19	23.10	23.12	23.04
	36	39	23.15	23.05	23.05
	75	0	23.13	23.13	23.12
16QAM	1	0	22.98	23.61	23.25
	1	37	23.93	23.31	22.77
	1	74	23.74	23.04	23.05
	36	0	22.17	22.13	22.06
	36	19	22.17	22.18	22.14
	36	39	22.12	22.18	21.99
	75	0	22.16	22.11	21.75
64QAM	1	0	22.34	22.06	21.98
	1	37	22.19	22.37	22.03
	1	74	22.44	22.07	22.34
	36	0	21.09	21.17	21.08
	36	19	21.16	21.15	21.07
	36	39	21.14	21.16	21.06
	75	0	21.17	21.03	21.11
256QAM	1	0	19.50	19.32	19.11
	1	37	19.57	18.88	19.41
	1	74	19.24	19.03	19.40
	36	0	19.00	19.03	19.00
	36	19	19.13	19.12	19.07
	36	39	19.24	19.18	19.04
	75	0	19.15	19.19	18.93

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.99	24.13	24.19	25.33	33.01
16QAM	21.75	23.93	22.95	25.13	33.01
64QAM	21.03	22.44	22.23	23.64	33.01
256QAM	18.88	19.57	20.08	20.77	33.01

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

LTE Band 7, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20850	CH 21100	CH 21350
			2510 MHz	2535 MHz	2560 MHz
QPSK	1	0	24.10	24.28	24.02
	1	50	23.97	24.04	23.83
	1	99	24.19	24.20	23.85
	50	0	23.11	23.18	23.01
	50	25	23.16	23.08	22.98
	50	50	23.18	23.08	22.99
	100	0	23.12	23.10	23.00
16QAM	1	0	23.21	23.45	23.40
	1	50	23.73	23.45	23.10
	1	99	23.29	23.18	23.00
	50	0	22.15	22.18	22.04
	50	25	22.33	22.19	22.14
	50	50	22.13	22.07	22.10
	100	0	22.13	22.16	22.09
64QAM	1	0	22.11	22.24	22.01
	1	50	22.22	22.35	21.81
	1	99	22.24	22.12	22.22
	50	0	21.14	21.26	21.11
	50	25	21.09	21.08	21.16
	50	50	21.12	21.04	21.11
	100	0	21.14	21.11	21.50
256QAM	1	0	19.19	19.06	19.15
	1	50	19.60	19.94	19.55
	1	99	19.61	19.06	19.01
	50	0	19.08	19.30	19.09
	50	25	19.07	19.11	19.11
	50	50	19.20	19.08	19.07
	100	0	19.15	19.20	19.08

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.98	24.28	24.18	25.48	33.01
16QAM	22.04	23.73	23.24	24.93	33.01
64QAM	21.04	22.35	22.24	23.55	33.01
256QAM	19.01	19.94	20.21	21.14	33.01

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

7.1.10LTE 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	24.15	24.30	23.88
	1	2	24.39	24.14	24.08
	1	5	24.12	24.04	24.29
	3	0	24.22	24.15	24.06
	3	1	24.12	24.20	24.10
	3	3	24.12	24.10	24.11
	6	0	23.12	23.18	23.10
16QAM	1	0	23.86	23.71	23.51
	1	2	23.53	23.37	23.72
	1	5	23.35	23.62	23.28
	3	0	23.14	23.20	23.04
	3	1	23.16	23.28	23.05
	3	3	23.46	23.68	23.48
	6	0	22.41	22.21	22.30
64QAM	1	0	22.46	22.49	22.30
	1	2	22.98	22.84	22.65
	1	5	22.21	22.54	22.43
	3	0	22.31	22.75	22.25
	3	1	22.37	22.40	22.24
	3	3	22.46	22.42	22.14
	6	0	21.41	21.18	21.13
256QAM	1	0	19.04	19.39	19.11
	1	2	19.39	18.77	19.32
	1	5	19.44	19.07	19.23
	3	0	19.30	19.22	19.31
	3	1	19.43	19.29	19.07
	3	3	19.06	19.26	19.19
	6	0	19.18	19.08	19.33

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.1	24.39	22.25	23.54	44.77
16QAM	22.21	23.86	21.36	23.01	44.77
64QAM	21.13	22.98	20.28	22.13	44.77
256QAM	18.77	19.44	17.92	18.59	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	24.09	24.32	24.27
	1	7	24.26	24.35	24.31
	1	14	24.16	24.20	24.00
	8	0	23.26	23.22	23.17
	8	3	23.27	23.29	23.22
	8	7	23.29	23.20	23.20
	15	0	23.37	23.24	23.20
16QAM	1	0	23.61	23.73	23.92
	1	7	23.91	23.64	23.71
	1	14	23.37	23.70	23.50
	8	0	22.33	22.37	22.30
	8	3	22.44	22.32	22.35
	8	7	22.40	22.32	22.24
	15	0	22.29	22.26	22.24
64QAM	1	0	22.84	22.60	22.61
	1	7	22.67	22.42	22.37
	1	14	22.43	22.66	22.18
	8	0	21.33	21.21	21.22
	8	3	21.35	21.24	21.31
	8	7	21.29	21.29	21.12
	15	0	21.19	21.20	21.23
256QAM	1	0	19.44	19.53	19.53
	1	7	19.61	19.63	19.37
	1	14	19.42	19.14	19.29
	8	0	19.52	19.03	19.20
	8	3	19.40	19.16	19.29
	8	7	19.21	19.41	19.41
	15	0	19.31	19.20	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	24.35	22.32	23.5	44.77
16QAM	22.24	23.92	21.39	23.07	44.77
64QAM	21.12	22.84	20.27	21.99	44.77
256QAM	19.03	19.63	18.18	18.78	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	24.25	24.14	24.32
	1	12	24.36	24.32	24.26
	1	24	24.30	24.28	24.22
	12	0	23.28	23.27	23.28
	12	6	23.26	23.34	23.28
	12	13	23.29	23.20	23.19
	25	0	23.25	23.28	23.27
16QAM	1	0	23.15	23.61	24.01
	1	12	24.10	23.70	23.90
	1	24	23.39	23.38	23.50
	12	0	22.28	22.26	22.28
	12	6	22.26	22.24	22.31
	12	13	22.41	22.33	22.23
	25	0	22.28	23.19	22.25
64QAM	1	0	22.20	22.58	22.48
	1	12	22.72	22.32	22.41
	1	24	22.52	22.57	22.61
	12	0	21.13	21.40	21.34
	12	6	21.39	21.37	21.25
	12	13	21.30	21.13	21.26
	25	0	21.26	21.34	21.28
256QAM	1	0	19.19	19.23	19.41
	1	12	19.41	19.69	19.43
	1	24	19.33	19.09	19.08
	12	0	19.22	19.41	19.29
	12	6	19.43	19.39	19.32
	12	13	19.43	19.45	19.26
	25	0	19.37	19.24	19.28

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.19	24.36	22.34	23.51	44.77
16QAM	22.23	24.1	21.38	23.25	44.77
64QAM	21.13	22.72	20.28	21.87	44.77
256QAM	19.08	19.69	18.23	18.84	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	24.14	24.42	24.39
	1	24	24.26	24.30	24.16
	1	49	24.29	24.18	24.01
	25	0	23.22	23.22	23.24
	25	12	23.31	23.31	23.28
	25	25	23.29	23.28	23.21
	50	0	23.23	23.23	23.30
16QAM	1	0	23.57	23.61	23.43
	1	24	23.45	23.83	23.32
	1	49	23.61	23.42	23.36
	25	0	22.21	22.19	22.34
	25	12	22.23	22.36	22.42
	25	25	22.29	22.31	22.30
	50	0	22.34	22.34	22.27
64QAM	1	0	22.82	22.71	22.50
	1	24	22.26	22.27	22.73
	1	49	22.11	22.46	22.16
	25	0	21.27	21.37	21.39
	25	12	21.33	21.37	21.38
	25	25	21.27	21.36	21.26
	50	0	21.33	21.18	21.35
256QAM	1	0	19.47	19.30	19.22
	1	24	19.24	19.40	19.37
	1	49	19.57	19.21	19.26
	25	0	19.21	19.31	19.30
	25	12	19.42	19.24	19.34
	25	25	19.34	19.42	19.25
	50	0	19.38	19.31	19.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.42	22.36	23.57	44.77
16QAM	22.19	23.83	21.34	22.98	44.77
64QAM	21.18	22.82	20.33	21.97	44.77
256QAM	19.21	19.57	18.36	18.72	44.77

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

7.1.11LTE 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	24.09	24.07	24.28
	1	12	24.18	24.33	24.17
	1	24	24.09	24.33	24.24
	12	0	23.10	23.15	23.10
	12	6	23.21	23.18	23.27
	12	13	23.07	23.24	23.22
	25	0	23.17	23.19	23.19
16QAM	1	0	23.30	23.67	23.36
	1	12	23.59	23.69	23.27
	1	24	23.38	23.69	23.35
	12	0	22.09	22.08	22.26
	12	6	22.30	22.24	22.32
	12	13	22.22	22.12	22.28
	25	0	22.25	23.26	22.23
64QAM	1	0	22.32	22.56	22.42
	1	12	22.52	22.51	22.65
	1	24	22.50	22.69	22.58
	12	0	21.21	21.31	21.14
	12	6	21.33	21.21	21.33
	12	13	21.14	21.24	21.15
	25	0	21.08	21.23	21.14
256QAM	1	0	19.28	19.17	19.13
	1	12	19.15	19.18	18.86
	1	24	18.96	19.34	19.47
	12	0	19.16	19.27	19.17
	12	6	19.28	19.30	19.37
	12	13	19.20	19.08	19.21
	25	0	19.29	19.28	19.31

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.07	24.33	22.12	23.38	44.77
16QAM	22.08	23.69	21.13	22.74	44.77
64QAM	21.08	22.69	20.13	21.74	44.77
256QAM	18.86	19.47	17.91	18.52	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	24.35
	1	24	24.26
	1	49	24.16
	25	0	23.29
	25	12	23.23
	25	25	23.28
	50	0	23.16
16QAM	1	0	23.56
	1	24	23.60
	1	49	23.26
	25	0	22.10
	25	12	22.26
	25	25	22.20
	50	0	22.25
64QAM	1	0	22.20
	1	24	21.83
	1	49	22.36
	25	0	21.17
	25	12	21.18
	25	25	21.30
	50	0	21.32
256QAM	1	0	18.84
	1	24	19.36
	1	49	19.16
	25	0	19.33
	25	12	19.25
	25	25	19.17
	50	0	19.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.16	24.35	22.21	23.4	44.77
16QAM	22.1	23.6	21.15	22.65	44.77
64QAM	21.17	22.36	20.22	21.41	44.77
256QAM	18.84	19.36	17.89	18.41	44.77

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

7.1.12LTE 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	24.16	24.15	24.13
	1	12	24.18	24.33	24.27
	1	24	24.14	24.30	24.34
	12	0	23.36	23.21	23.22
	12	6	23.28	23.30	23.41
	12	13	23.26	23.22	23.27
	25	0	23.22	23.25	23.27
16QAM	1	0	23.70	23.20	23.52
	1	12	23.26	23.76	23.87
	1	24	23.51	23.41	23.77
	12	0	22.27	22.29	22.18
	12	6	22.33	22.35	22.36
	12	13	22.25	22.22	22.42
	25	0	22.33	23.21	22.32
64QAM	1	0	22.33	22.46	22.54
	1	12	22.33	22.69	22.47
	1	24	22.38	22.50	22.53
	12	0	21.32	21.18	21.28
	12	6	21.26	21.25	21.35
	12	13	21.30	21.36	21.18
	25	0	21.35	21.22	21.38
256QAM	1	0	19.14	18.99	19.22
	1	12	19.17	19.27	19.28
	1	24	19.02	19.04	19.31
	12	0	19.35	19.12	19.22
	12	6	19.35	19.31	19.41
	12	13	19.29	19.38	19.37
	25	0	19.20	19.19	19.37

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.34	22.26	23.39	44.77
16QAM	22.18	23.87	21.23	22.92	44.77
64QAM	21.18	22.69	20.23	21.74	44.77
256QAM	18.99	19.41	18.04	18.46	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	24.50
	1	24	24.43
	1	49	24.27
	25	0	23.21
	25	12	23.28
	25	25	23.22
	50	0	23.26
16QAM	1	0	23.29
	1	24	23.73
	1	49	23.25
	25	0	22.29
	25	12	22.23
	25	25	22.27
	50	0	22.27
64QAM	1	0	22.14
	1	24	22.91
	1	49	22.41
	25	0	21.25
	25	12	21.34
	25	25	21.36
	50	0	21.27
256QAM	1	0	19.05
	1	24	19.02
	1	49	18.90
	25	0	19.29
	25	12	19.23
	25	25	19.40
	50	0	19.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.21	24.50	22.26	23.55	44.77
16QAM	22.23	23.73	21.28	22.78	44.77
64QAM	21.25	22.91	20.3	21.96	44.77
256QAM	18.9	19.4	17.95	18.45	44.77

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

7.1.13LTE 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	24.38	24.32	24.13
	1	12	24.25	24.29	24.27
	1	24	24.18	24.16	23.88
	12	0	23.18	23.28	23.27
	12	6	23.31	23.28	23.26
	12	13	23.26	23.21	23.08
	25	0	23.29	23.27	23.26
16QAM	1	0	23.00	23.16	23.12
	1	12	23.47	23.83	23.47
	1	24	23.60	23.74	23.72
	12	0	22.19	22.20	22.31
	12	6	22.34	22.36	22.13
	12	13	22.39	22.21	22.10
	25	0	22.23	23.18	22.27
64QAM	1	0	22.25	22.40	22.28
	1	12	21.90	22.55	22.73
	1	24	22.94	22.44	22.42
	12	0	21.24	21.33	21.36
	12	6	21.37	21.24	21.33
	12	13	21.35	21.31	21.21
	25	0	21.19	21.25	21.18
256QAM	1	0	19.18	18.92	19.01
	1	12	19.65	19.55	19.55
	1	24	19.19	18.95	18.64
	12	0	19.32	19.20	19.36
	12	6	19.42	19.34	19.42
	12	13	19.27	19.25	19.11
	25	0	19.28	19.23	19.14

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.38	22.23	23.53	44.77
16QAM	22.1	23.83	21.25	22.98	44.77
64QAM	21.18	22.94	20.33	22.09	44.77
256QAM	18.64	19.65	17.79	18.8	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	24.26	24.41	24.27
	1	24	24.38	24.35	24.16
	1	49	24.25	24.24	24.24
	25	0	23.14	23.29	23.22
	25	12	23.28	23.21	23.35
	25	25	23.28	23.26	23.19
	50	0	23.15	23.20	23.20
16QAM	1	0	23.70	23.31	23.86
	1	24	23.62	23.84	23.73
	1	49	23.68	23.65	23.45
	25	0	22.21	22.15	22.25
	25	12	22.33	22.34	22.30
	25	25	22.35	22.13	22.27
	50	0	22.24	22.27	22.20
64QAM	1	0	22.13	22.61	22.87
	1	24	22.60	22.11	22.52
	1	49	22.11	22.77	22.32
	25	0	21.28	21.15	21.24
	25	12	21.41	21.28	21.30
	25	25	21.34	21.17	21.14
	50	0	21.25	21.23	21.16
256QAM	1	0	19.17	18.60	19.16
	1	24	19.43	19.87	19.44
	1	49	19.13	18.97	19.04
	25	0	19.24	19.36	19.27
	25	12	19.27	19.28	19.30
	25	25	19.28	19.24	19.21
	50	0	19.28	19.28	19.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.14	24.41	22.29	23.56	44.77
16QAM	22.13	23.86	21.28	23.01	44.77
64QAM	21.14	22.87	20.29	22.02	44.77
256QAM	18.6	19.87	17.75	19.02	44.77

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

7.1.14LTE 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	23.81	23.78	23.98
	1	2	23.88	23.89	23.81
	1	5	23.83	23.88	23.87
	3	0	23.77	23.83	23.98
	3	1	23.94	23.95	23.84
	3	3	23.80	23.82	23.86
	6	0	22.83	22.92	22.89
16QAM	1	0	23.07	23.08	23.81
	1	2	23.52	22.99	22.84
	1	5	23.12	23.19	23.80
	3	0	23.01	22.96	23.22
	3	1	22.87	22.92	23.36
	3	3	23.19	23.55	23.04
	6	0	21.85	21.94	22.05
64QAM	1	0	22.41	22.22	22.10
	1	2	22.42	22.24	22.41
	1	5	22.06	22.24	21.83
	3	0	21.98	21.78	22.16
	3	1	22.03	21.94	22.21
	3	3	21.62	22.29	21.99
	6	0	20.97	21.07	20.92
256QAM	1	0	19.19	19.05	19.07
	1	2	19.31	19.23	19.22
	1	5	18.66	19.25	19.96
	3	0	18.94	19.11	19.21
	3	1	19.12	18.96	19.02
	3	3	19.19	19.06	19.05
	6	0	18.95	19.07	19.11

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.83	23.98	23.83	24.98	33.01
16QAM	21.85	23.81	22.85	24.81	33.01
64QAM	20.92	22.42	21.92	23.42	33.01
256QAM	18.66	19.96	19.66	20.96	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	23.74	23.74	23.79
	1	7	24.01	24.08	23.99
	1	14	23.96	23.75	23.81
	8	0	22.95	22.90	22.96
	8	3	22.90	23.01	23.05
	8	7	22.84	22.94	22.94
	15	0	22.99	22.97	22.99
16QAM	1	0	23.49	23.23	23.08
	1	7	22.98	23.21	23.49
	1	14	23.61	23.29	23.20
	8	0	21.97	22.07	21.95
	8	3	21.91	22.07	21.99
	8	7	21.97	22.07	22.07
	15	0	21.87	21.90	21.97
64QAM	1	0	22.12	22.10	22.67
	1	7	22.20	22.28	22.37
	1	14	22.15	21.96	21.80
	8	0	20.91	20.94	20.84
	8	3	21.06	20.90	20.96
	8	7	20.90	20.98	21.08
	15	0	20.83	20.93	20.91
256QAM	1	0	18.39	19.03	18.37
	1	7	18.81	19.41	19.15
	1	14	18.47	18.92	19.11
	8	0	19.04	19.09	18.99
	8	3	18.91	19.01	19.04
	8	7	18.92	18.88	19.11
	15	0	18.92	18.98	18.86

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.84	24.08	23.84	25.08	33.01
16QAM	21.87	23.61	22.87	24.61	33.01
64QAM	20.83	22.67	21.83	23.67	33.01
256QAM	18.37	19.41	19.37	20.41	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	23.94	24.10	24.18
	1	12	23.80	24.16	24.13
	1	24	23.73	24.12	23.99
	12	0	22.88	22.97	23.02
	12	6	22.89	22.93	23.00
	12	13	23.00	22.96	23.05
	25	0	22.87	22.96	22.96
16QAM	1	0	23.51	23.36	22.67
	1	12	23.01	23.36	23.38
	1	24	22.92	23.14	23.48
	12	0	22.14	21.86	21.93
	12	6	21.99	21.92	22.03
	12	13	21.94	22.01	22.14
	25	0	22.01	22.95	22.06
64QAM	1	0	21.99	22.04	22.29
	1	12	22.16	22.25	22.31
	1	24	22.34	22.06	22.42
	12	0	20.94	21.08	21.09
	12	6	20.97	21.02	21.14
	12	13	20.90	21.02	21.07
	25	0	21.01	20.92	21.06
256QAM	1	0	19.14	18.96	19.05
	1	12	19.28	18.81	19.35
	1	24	19.32	18.81	19.36
	12	0	18.85	18.92	18.98
	12	6	19.04	18.86	18.99
	12	13	18.98	19.05	19.12
	25	0	18.98	19.04	18.91

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.87	24.18	23.87	25.18	33.01
16QAM	21.86	23.51	22.86	24.51	33.01
64QAM	20.9	22.42	21.9	23.42	33.01
256QAM	18.81	19.36	19.81	20.36	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	23.98	23.94	23.80
	1	24	23.84	23.90	23.98
	1	49	24.22	23.85	24.07
	25	0	22.84	22.91	23.04
	25	12	22.94	22.93	23.00
	25	25	22.95	23.05	23.05
	50	0	22.94	22.85	23.05
16QAM	1	0	23.31	23.06	22.64
	1	24	23.14	23.34	22.89
	1	49	22.97	23.36	23.27
	25	0	21.90	21.99	22.00
	25	12	22.11	21.94	22.10
	25	25	21.87	21.96	22.02
	50	0	21.98	21.88	22.11
64QAM	1	0	21.75	22.33	21.89
	1	24	21.84	21.92	22.08
	1	49	21.91	22.60	21.95
	25	0	20.92	21.05	20.86
	25	12	21.03	21.02	21.04
	25	25	21.06	20.98	21.10
	50	0	20.61	21.13	20.94
256QAM	1	0	18.95	19.37	18.85
	1	24	19.05	19.19	19.39
	1	49	19.06	19.26	19.19
	25	0	18.98	19.13	19.10
	25	12	19.08	18.94	18.98
	25	25	18.90	19.07	19.11
	50	0	19.02	19.10	18.98

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.84	24.22	23.84	25.22	33.01
16QAM	21.87	23.36	22.87	24.36	33.01
64QAM	20.61	22.6	21.61	23.6	33.01
256QAM	18.85	19.39	19.85	20.39	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	24.13	23.86	24.00
	1	37	24.11	23.80	23.91
	1	74	24.18	24.15	23.92
	36	0	22.90	22.93	22.97
	36	19	22.97	22.92	22.98
	36	39	22.94	23.08	23.00
	75	0	22.90	22.86	23.05
16QAM	1	0	23.14	23.13	22.61
	1	37	23.02	23.09	23.24
	1	74	23.34	23.33	23.14
	36	0	21.94	22.01	21.96
	36	19	22.03	22.02	21.99
	36	39	22.02	22.02	22.06
	75	0	21.93	21.92	22.05
64QAM	1	0	22.10	21.90	22.24
	1	37	22.25	22.39	22.23
	1	74	22.33	22.52	22.12
	36	0	20.92	20.96	20.96
	36	19	21.02	20.90	20.89
	36	39	21.12	20.87	20.92
	75	0	21.17	20.92	21.09
256QAM	1	0	18.99	18.69	19.35
	1	37	18.74	18.95	18.71
	1	74	19.09	19.06	19.11
	36	0	18.86	18.97	18.96
	36	19	18.86	18.95	18.87
	36	39	18.96	19.06	19.06
	75	0	19.02	19.02	18.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.86	24.18	23.86	25.18	33.01
16QAM	21.92	23.34	22.92	24.34	33.01
64QAM	20.87	22.52	21.87	23.52	33.01
256QAM	18.69	19.35	19.69	20.35	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	23.81	24.25	24.06
	1	50	23.92	23.83	23.89
	1	99	24.00	24.12	23.93
	50	0	22.89	23.00	22.91
	50	25	22.93	22.80	23.06
	50	50	23.04	22.96	22.99
	100	0	22.88	22.92	23.03
16QAM	1	0	22.95	23.17	23.47
	1	50	23.29	23.09	23.32
	1	99	23.36	23.02	23.06
	50	0	21.94	21.99	21.95
	50	25	21.98	21.88	22.11
	50	50	22.06	21.94	21.98
	100	0	22.16	21.86	21.84
64QAM	1	0	22.41	22.38	22.26
	1	50	22.16	22.37	22.60
	1	99	21.91	22.14	22.43
	50	0	20.96	20.98	20.98
	50	25	20.96	20.93	20.97
	50	50	21.07	21.11	20.99
	100	0	21.01	20.93	21.02
256QAM	1	0	19.14	18.94	19.05
	1	50	19.11	19.07	19.49
	1	99	18.72	19.35	18.81
	50	0	18.94	18.97	18.94
	50	25	19.08	18.97	19.08
	50	50	19.01	18.99	19.04
	100	0	18.96	19.13	19.09

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.8	24.25	23.8	25.25	33.01
16QAM	21.84	23.47	22.84	24.47	33.01
64QAM	20.93	22.6	21.93	23.6	33.01
256QAM	18.72	19.49	19.72	20.49	33.01

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

7.1.15LTE 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	24.24	24.35	24.32
	1	2	24.02	24.23	24.19
	1	5	24.12	24.15	24.17
	3	0	24.30	24.27	24.26
	3	1	24.30	24.33	24.29
	3	3	24.28	24.27	24.23
	6	0	23.35	23.36	23.30
16QAM	1	0	23.55	23.61	23.76
	1	2	23.50	23.36	23.65
	1	5	23.45	23.57	23.59
	3	0	23.29	23.31	23.41
	3	1	23.41	23.45	23.46
	3	3	23.40	23.39	23.48
	6	0	22.48	22.51	22.38
64QAM	1	0	22.87	22.36	22.38
	1	2	22.91	22.72	22.51
	1	5	22.76	22.69	22.40
	3	0	22.62	22.53	22.47
	3	1	22.59	22.48	22.46
	3	3	22.53	22.44	22.57
	6	0	21.54	21.54	21.37
256QAM	1	0	19.61	19.57	19.69
	1	2	19.11	19.40	19.43
	1	5	19.55	19.62	19.66
	3	0	19.54	19.45	19.30
	3	1	19.48	19.44	19.40
	3	3	19.37	19.32	19.29
	6	0	19.31	19.43	19.39

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.3	24.35	22.25	23.3	50
16QAM	22.38	23.76	21.33	22.71	50
64QAM	21.37	22.91	20.32	21.86	50
256QAM	19.11	19.69	18.06	18.64	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	24.28	24.40	24.36
	1	7	24.03	24.27	24.15
	1	14	24.19	24.13	24.13
	8	0	24.31	24.25	24.33
	8	3	24.28	24.31	24.35
	8	7	24.28	24.33	24.26
	15	0	23.32	23.36	23.29
16QAM	1	0	23.59	23.68	23.74
	1	7	23.54	23.38	23.62
	1	14	23.48	23.62	23.63
	8	0	23.34	23.37	23.46
	8	3	23.37	23.42	23.42
	8	7	23.45	23.43	23.53
	15	0	22.50	22.54	22.40
64QAM	1	0	22.86	22.34	22.37
	1	7	22.88	22.75	22.56
	1	14	22.78	22.73	22.45
	8	0	22.66	22.57	22.48
	8	3	22.58	22.47	22.53
	8	7	22.55	22.43	22.57
	15	0	21.56	21.58	21.39
256QAM	1	0	19.67	19.53	19.67
	1	7	19.07	19.45	19.39
	1	14	19.52	19.60	19.71
	8	0	19.53	19.51	19.35
	8	3	19.45	19.49	19.46
	8	7	19.37	19.33	19.25
	15	0	19.30	19.41	19.38

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.29	24.4	22.24	23.35	50
16QAM	22.4	23.74	21.35	22.69	50
64QAM	21.39	22.88	20.34	21.83	50
256QAM	19.07	19.71	18.02	18.66	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	24.20	24.38	24.35
	1	12	23.99	24.20	24.13
	1	24	24.18	24.17	24.26
	12	0	24.31	24.27	24.28
	12	6	24.32	24.30	24.31
	12	13	24.40	24.29	24.20
	25	0	23.38	23.42	23.28
16QAM	1	0	23.59	23.69	23.77
	1	12	23.55	23.36	23.70
	1	24	23.52	23.57	23.64
	12	0	23.28	23.26	23.45
	12	6	23.42	23.44	23.48
	12	13	23.40	23.44	23.57
	25	0	22.57	22.59	22.50
64QAM	1	0	22.95	22.38	22.37
	1	12	22.89	22.74	22.58
	1	24	22.87	22.78	22.51
	12	0	22.73	22.53	22.50
	12	6	22.61	22.51	22.47
	12	13	22.62	22.44	22.66
	25	0	21.56	21.56	21.40
256QAM	1	0	19.73	19.65	19.74
	1	12	19.15	19.40	19.46
	1	24	19.53	19.56	19.65
	12	0	19.53	19.54	19.40
	12	6	19.60	19.44	19.32
	12	13	19.45	19.42	19.30
	25	0	19.26	19.50	19.43

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.28	24.4	22.23	23.35	50
16QAM	22.5	23.77	21.45	22.72	50
64QAM	21.4	22.95	20.35	21.9	50
256QAM	19.15	19.74	18.1	18.69	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	24.49
	1	24	24.44
	1	49	24.30
	25	0	23.34
	25	12	23.27
	25	25	23.25
	50	0	23.32
16QAM	1	0	23.58
	1	24	23.66
	1	49	23.42
	25	0	22.32
	25	12	22.38
	25	25	22.34
	50	0	22.34
64QAM	1	0	22.63
	1	24	22.62
	1	49	22.41
	25	0	21.44
	25	12	21.42
	25	25	21.39
	50	0	21.42
256QAM	1	0	19.55
	1	24	19.46
	1	49	19.35
	25	0	19.38
	25	12	19.29
	25	25	19.36
	50	0	19.39

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.49	22.2	23.44	50
16QAM	22.32	23.66	21.27	22.61	50
64QAM	21.39	22.63	20.34	21.58	50
256QAM	19.29	19.55	18.24	18.5	50

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

7.1.16LTE 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	24.26	24.35	24.24
	1	2	24.14	24.25	24.20
	1	5	24.12	24.23	24.00
	3	0	24.16	24.27	24.22
	3	1	24.18	24.30	24.15
	3	3	24.23	24.32	24.19
	6	0	23.26	23.32	23.15
16QAM	1	0	23.66	23.82	23.60
	1	2	23.65	23.69	23.71
	1	5	23.59	23.55	23.42
	3	0	23.37	23.48	23.60
	3	1	23.45	23.78	23.70
	3	3	23.66	23.48	23.56
	6	0	22.44	22.46	22.30
64QAM	1	0	22.43	22.50	22.29
	1	2	22.35	22.54	22.18
	1	5	22.46	22.39	22.50
	3	0	22.45	22.44	22.35
	3	1	22.38	22.50	22.62
	3	3	22.31	22.40	22.39
	6	0	21.50	21.53	21.42
256QAM	1	0	19.31	19.35	19.33
	1	2	19.52	19.36	19.30
	1	5	19.35	19.45	19.20
	3	0	19.33	19.61	19.43
	3	1	19.47	19.42	19.29
	3	3	19.43	19.43	19.26
	6	0	19.37	19.33	19.34

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.15	24.35	22.1	23.3	38.45
16QAM	22.3	23.82	21.25	22.77	38.45
64QAM	21.42	22.62	20.37	21.57	38.45
256QAM	19.2	19.61	18.15	18.56	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	24.33	24.36	24.30
	1	7	24.32	24.34	24.23
	1	14	24.25	24.27	24.31
	8	0	23.53	23.37	23.28
	8	3	23.41	23.39	23.19
	8	7	23.37	23.35	23.27
	15	0	23.40	23.39	23.23
16QAM	1	0	23.33	23.46	23.28
	1	7	23.54	23.66	23.63
	1	14	23.48	23.57	23.70
	8	0	22.55	22.41	22.24
	8	3	22.51	22.49	22.33
	8	7	22.50	22.47	22.31
	15	0	22.46	22.50	22.26
64QAM	1	0	22.69	22.71	22.58
	1	7	22.88	22.85	22.83
	1	14	22.50	22.38	22.48
	8	0	21.45	21.45	21.27
	8	3	21.42	21.48	21.39
	8	7	21.38	21.35	21.31
	15	0	21.45	21.47	21.28
256QAM	1	0	19.28	19.30	19.19
	1	7	19.30	19.34	19.46
	1	14	19.37	19.32	19.27
	8	0	19.43	19.43	19.35
	8	3	19.45	19.54	19.29
	8	7	19.34	19.41	19.37
	15	0	19.42	19.42	19.17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.19	24.36	22.14	23.31	38.45
16QAM	22.24	23.7	21.19	22.65	38.45
64QAM	21.27	22.88	20.22	21.83	38.45
256QAM	19.17	19.54	18.12	18.49	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	24.43	24.41	24.27
	1	12	24.37	24.45	24.42
	1	24	24.40	24.23	24.18
	12	0	23.36	23.40	23.31
	12	6	23.41	23.40	23.26
	12	13	23.32	23.37	23.28
	25	0	23.37	23.40	23.34
16QAM	1	0	23.54	23.69	23.52
	1	12	23.62	23.64	23.48
	1	24	23.60	23.72	23.46
	12	0	22.43	22.42	22.26
	12	6	22.46	22.48	22.33
	12	13	22.49	22.38	22.27
	25	0	22.40	22.42	22.39
64QAM	1	0	22.83	22.98	22.76
	1	12	22.88	22.51	22.75
	1	24	22.67	22.87	22.69
	12	0	21.44	21.44	21.30
	12	6	21.47	21.47	21.28
	12	13	21.29	21.39	21.19
	25	0	21.51	21.53	21.23
256QAM	1	0	19.74	19.35	19.28
	1	12	19.53	19.32	19.52
	1	24	19.39	19.31	19.41
	12	0	19.37	19.22	19.34
	12	6	19.30	19.35	19.41
	12	13	19.43	19.27	19.27
	25	0	19.37	19.43	19.35

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.26	24.45	22.21	23.4	38.45
16QAM	22.26	23.72	21.21	22.67	38.45
64QAM	21.19	22.98	20.14	21.93	38.45
256QAM	19.22	19.74	18.17	18.69	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	24.35	24.44	24.40
	1	24	24.24	24.27	24.23
	1	49	24.33	24.39	24.28
	25	0	23.37	23.34	23.30
	25	12	23.47	23.45	23.35
	25	25	23.46	23.36	23.30
	50	0	23.37	23.35	23.36
16QAM	1	0	23.56	23.69	23.52
	1	24	23.61	23.72	23.43
	1	49	23.40	23.56	23.35
	25	0	22.33	22.39	22.29
	25	12	22.43	22.36	22.38
	25	25	22.40	22.44	22.38
	50	0	22.36	22.32	22.36
64QAM	1	0	22.87	22.85	22.76
	1	24	22.79	22.55	22.84
	1	49	22.53	22.54	22.52
	25	0	21.49	21.41	21.38
	25	12	21.46	21.47	21.37
	25	25	21.43	21.44	21.45
	50	0	21.46	21.44	21.42
256QAM	1	0	19.65	19.71	19.69
	1	24	19.88	19.62	19.56
	1	49	19.74	19.39	19.37.
	25	0	19.28	19.29	19.30
	25	12	19.38	19.42	19.29
	25	25	19.41	19.39	19.32
	50	0	19.46	19.41	19.39

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.3	24.44	22.25	23.39	38.45
16QAM	22.29	23.72	21.24	22.67	38.45
64QAM	21.37	22.87	20.32	21.82	38.45
256QAM	19.28	19.88	18.23	18.83	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	24.40	24.48	24.43
	1	37	24.31	24.30	24.24
	1	74	24.25	24.36	24.20
	36	0	23.40	23.36	23.35
	36	19	23.34	23.37	23.30
	36	39	23.27	23.33	23.25
	75	0	23.30	23.38	23.31
16QAM	1	0	23.47	23.65	23.52
	1	37	23.60	23.45	23.34
	1	74	23.43	23.04	23.36
	36	0	22.36	22.41	22.39
	36	19	22.30	22.32	22.34
	36	39	22.26	22.30	22.33
	75	0	22.28	22.39	22.27
64QAM	1	0	22.51	22.84	22.81
	1	37	22.80	22.70	22.57
	1	74	22.60	22.30	22.51
	36	0	21.39	21.32	21.36
	36	19	21.43	21.34	21.31
	36	39	21.34	21.31	21.29
	75	0	21.36	21.43	21.30
256QAM	1	0	19.44	19.51	19.39
	1	37	19.20	19.22	19.36
	1	74	19.50	19.34	19.21
	36	0	19.31	19.39	19.40
	36	19	19.27	19.38	19.33
	36	39	19.29	19.26	19.22
	75	0	19.36	19.35	19.27

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.25	24.48	22.2	23.43	38.45
16QAM	22.26	23.65	21.21	22.6	38.45
64QAM	21.29	22.84	20.24	21.79	38.45
256QAM	19.2	19.51	18.15	18.46	38.45

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

7.1.17LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39675	CH 40620	CH 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
QPSK	1	0	23.71	24.02	23.84
	1	12	23.85	24.05	23.96
	1	24	23.81	23.95	23.80
	12	0	22.89	23.08	22.99
	12	6	22.93	23.16	23.02
	12	13	22.93	23.10	23.01
	25	0	22.99	23.12	22.91
16QAM	1	0	23.09	23.26	22.96
	1	12	22.65	23.28	23.14
	1	24	23.04	23.21	23.12
	12	0	21.94	22.01	21.97
	12	6	21.99	22.20	21.89
	12	13	21.91	22.16	22.04
	25	0	21.95	23.12	21.89
64QAM	1	0	21.62	21.93	21.90
	1	12	21.58	21.92	21.95
	1	24	21.90	21.92	22.15
	12	0	20.98	20.90	20.85
	12	6	20.78	21.12	20.98
	12	13	20.89	20.90	21.02
	25	0	20.86	21.08	20.92
256QAM	1	0	18.96	19.07	19.52
	1	12	18.79	19.05	18.80
	1	24	18.76	19.03	19.04
	12	0	18.87	19.18	18.97
	12	6	18.90	18.95	18.83
	12	13	18.92	19.01	18.86
	25	0	19.01	19.10	19.05

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.89	24.05	23.99	25.15	33.01
16QAM	21.89	23.28	22.99	24.38	33.01
64QAM	20.78	22.15	21.88	23.25	33.01
256QAM	18.76	19.52	19.86	20.62	33.01

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

LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39700	CH 40620	CH 41540
			2501 MHz	2593 MHz	2685 MHz
QPSK	1	0	23.68	24.04	23.89
	1	24	23.83	24.00	23.89
	1	49	23.73	23.95	23.76
	25	0	22.87	23.01	22.70
	25	12	22.96	23.18	22.78
	25	25	22.98	23.12	22.85
	50	0	22.94	23.12	22.97
16QAM	1	0	22.83	23.09	22.71
	1	24	23.05	23.18	22.98
	1	49	23.24	23.24	22.50
	25	0	21.92	22.08	21.92
	25	12	21.93	22.16	21.93
	25	25	21.98	22.12	21.69
	50	0	21.95	21.86	21.81
64QAM	1	0	21.78	22.06	21.71
	1	24	21.52	21.84	21.82
	1	49	21.77	22.00	21.65
	25	0	20.87	21.00	20.85
	25	12	20.94	21.05	20.96
	25	25	20.95	21.00	20.93
	50	0	20.95	21.07	20.90
256QAM	1	0	18.72	18.50	18.86
	1	24	18.62	19.24	18.98
	1	49	18.64	18.92	18.62
	25	0	18.84	18.89	18.92
	25	12	18.95	19.05	19.01
	25	25	18.93	19.21	18.99
	50	0	18.78	19.06	18.94

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.7	24.04	23.8	25.14	33.01
16QAM	21.69	23.24	22.79	24.34	33.01
64QAM	20.85	22.06	21.95	23.16	33.01
256QAM	18.5	19.24	19.6	20.34	33.01

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

LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39725	CH 40620	CH 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
QPSK	1	0	23.71	23.83	23.86
	1	37	23.72	23.98	23.78
	1	74	23.87	23.87	23.71
	36	0	22.77	22.87	22.84
	36	19	22.89	23.05	22.86
	36	39	22.88	22.94	22.78
	75	0	22.86	22.95	22.79
16QAM	1	0	22.79	22.79	22.51
	1	37	22.83	22.86	22.80
	1	74	23.03	22.93	22.64
	36	0	21.89	21.89	21.86
	36	19	22.10	22.00	21.85
	36	39	21.89	22.09	21.75
	75	0	21.82	22.03	21.77
64QAM	1	0	21.61	21.70	22.06
	1	37	22.47	21.90	22.41
	1	74	21.88	22.12	21.88
	36	0	20.79	21.03	20.86
	36	19	21.07	21.09	20.98
	36	39	21.00	21.05	20.87
	75	0	20.86	21.10	20.70
256QAM	1	0	18.57	19.05	19.31
	1	37	19.33	19.24	18.91
	1	74	18.91	19.14	19.18
	36	0	18.82	19.03	18.89
	36	19	18.90	19.08	18.92
	36	39	18.90	19.01	18.93
	75	0	18.74	19.32	18.99

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.77	23.98	23.87	25.08	33.01
16QAM	21.75	23.03	22.85	24.13	33.01
64QAM	20.7	22.47	21.8	23.57	33.01
256QAM	18.57	19.33	19.67	20.43	33.01

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

LTE Band 41, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39750	CH 40620	CH 41490
			2506 MHz	2593 MHz	2680 MHz
QPSK	1	0	23.82	24.12	23.87
	1	50	24.10	24.02	23.77
	1	99	23.78	23.75	23.68
	50	0	22.84	22.98	22.89
	50	25	22.92	23.02	22.90
	50	50	22.89	22.99	22.81
	100	0	22.87	22.93	22.82
16QAM	1	0	23.07	22.77	23.03
	1	50	23.43	23.04	23.08
	1	99	23.06	22.88	22.91
	50	0	21.84	21.91	21.84
	50	25	21.88	22.03	21.92
	50	50	21.83	21.96	21.84
	100	0	21.91	21.84	21.89
64QAM	1	0	21.85	22.09	21.61
	1	50	21.93	21.84	21.78
	1	99	21.68	22.52	21.72
	50	0	20.96	21.08	20.84
	50	25	20.99	21.08	20.94
	50	50	20.92	21.06	20.88
	100	0	20.84	20.97	20.91
256QAM	1	0	18.52	19.30	18.86
	1	50	19.27	18.62	18.59
	1	99	18.78	19.01	18.82
	50	0	18.87	18.95	19.03
	50	25	18.97	19.13	19.11
	50	50	18.97	19.05	19.01
	100	0	19.01	19.36	18.93

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.81	24.12	23.91	25.22	33.01
16QAM	21.83	23.43	22.93	24.53	33.01
64QAM	20.84	22.52	21.94	23.62	33.01
256QAM	18.52	19.36	19.62	20.46	33.01

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

7.1.18LTE 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	23.69	23.72	23.61
	1	2	23.72	23.95	23.87
	1	5	23.95	23.67	23.70
	3	0	23.73	23.64	23.65
	3	1	23.77	23.61	23.65
	3	3	23.65	23.63	23.82
	6	0	22.89	22.80	22.77
16QAM	1	0	23.14	23.12	22.62
	1	2	23.03	22.81	23.06
	1	5	22.82	22.65	23.41
	3	0	22.83	22.80	23.15
	3	1	22.93	23.08	23.11
	3	3	22.95	23.03	22.83
	6	0	21.98	21.87	21.77
64QAM	1	0	22.15	22.01	22.17
	1	2	22.14	22.22	21.58
	1	5	22.16	22.22	22.56
	3	0	21.87	22.02	22.03
	3	1	21.91	21.89	22.09
	3	3	22.19	21.74	21.87
	6	0	20.93	20.82	20.79
256QAM	1	0	18.85	19.41	18.88
	1	2	19.33	18.72	19.14
	1	5	19.41	18.89	18.93
	3	0	19.06	19.22	18.69
	3	1	18.85	19.24	18.84
	3	3	18.98	18.88	18.84
	6	0	18.73	19.05	18.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.77	23.95	23.77	24.95	30
16QAM	21.77	23.41	22.77	24.41	30
64QAM	20.79	22.56	21.79	23.56	30
256QAM	18.69	19.41	19.69	20.41	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	23.86	23.93	23.85
	1	7	24.08	23.74	24.10
	1	14	23.77	23.62	23.73
	8	0	22.81	22.78	22.80
	8	3	22.88	22.81	22.72
	8	7	22.95	22.92	22.87
	15	0	22.87	22.85	22.66
16QAM	1	0	23.14	23.02	22.92
	1	7	23.22	23.51	23.81
	1	14	23.20	23.29	23.34
	8	0	21.80	21.75	21.89
	8	3	21.95	21.77	22.00
	8	7	21.84	21.94	21.96
	15	0	21.87	21.79	21.71
64QAM	1	0	21.84	22.12	21.57
	1	7	21.80	22.38	22.13
	1	14	22.22	21.87	21.82
	8	0	20.83	20.74	20.76
	8	3	20.96	20.72	20.84
	8	7	20.87	21.10	21.01
	15	0	20.92	20.90	20.73
256QAM	1	0	18.60	18.90	18.67
	1	7	18.62	19.43	19.18
	1	14	19.17	19.12	18.39
	8	0	18.76	18.82	18.79
	8	3	18.93	18.97	18.93
	8	7	18.91	18.76	18.94
	15	0	18.89	18.82	18.80

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.66	24.1	23.66	25.1	30
16QAM	21.71	23.81	22.71	24.81	30
64QAM	20.72	22.38	21.72	23.38	30
256QAM	18.39	19.43	19.39	20.43	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	23.93	23.82	23.80
	1	12	23.88	23.66	24.01
	1	24	23.78	23.77	23.99
	12	0	22.89	22.79	22.73
	12	6	22.93	22.64	22.88
	12	13	22.89	22.89	22.83
	25	0	22.88	22.77	22.78
16QAM	1	0	23.47	23.34	23.14
	1	12	23.04	23.06	23.24
	1	24	23.26	23.70	23.19
	12	0	21.88	21.81	21.76
	12	6	21.94	21.95	21.88
	12	13	22.14	21.90	21.93
	25	0	21.93	22.88	21.87
64QAM	1	0	22.14	22.35	21.91
	1	12	22.11	22.46	22.42
	1	24	22.03	21.94	21.99
	12	0	20.92	20.97	20.76
	12	6	20.95	20.99	21.01
	12	13	20.84	20.96	20.83
	25	0	20.91	20.82	20.91
256QAM	1	0	18.61	19.07	18.54
	1	12	19.19	19.12	19.41
	1	24	19.11	19.09	18.84
	12	0	18.95	18.79	18.88
	12	6	19.01	19.01	18.95
	12	13	19.03	18.88	18.81
	25	0	18.94	18.91	18.80

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.64	24.01	23.64	25.01	30
16QAM	21.76	23.7	22.76	24.7	30
64QAM	20.76	22.46	21.76	23.46	30
256QAM	18.54	19.41	19.54	20.41	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	23.82	23.95	23.67
	1	24	24.09	23.82	23.74
	1	49	24.06	23.75	23.56
	25	0	22.87	22.84	22.71
	25	12	22.88	22.87	22.85
	25	25	22.90	22.89	22.78
	50	0	22.94	22.77	22.86
16QAM	1	0	22.85	23.31	23.09
	1	24	22.84	22.99	22.92
	1	49	22.65	22.53	23.28
	25	0	21.77	21.93	21.71
	25	12	21.91	21.88	21.89
	25	25	22.02	21.97	21.84
	50	0	21.92	21.85	21.83
64QAM	1	0	22.01	22.04	21.91
	1	24	22.30	22.10	22.12
	1	49	21.87	21.84	21.75
	25	0	20.77	20.85	20.81
	25	12	20.98	20.74	20.85
	25	25	21.01	21.02	20.84
	50	0	20.80	20.85	20.91
256QAM	1	0	19.05	18.96	19.09
	1	24	19.17	19.05	18.61
	1	49	18.72	19.10	18.91
	25	0	18.85	18.78	18.90
	25	12	18.89	18.98	18.94
	25	25	18.96	18.91	18.86
	50	0	18.89	18.90	19.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.71	24.09	23.71	25.09	30
16QAM	21.71	23.31	22.71	24.31	30
64QAM	20.74	22.3	21.74	23.3	30
256QAM	18.61	19.17	19.61	20.17	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	23.84	23.96	23.84
	1	37	24.21	23.76	23.96
	1	74	23.96	23.74	23.80
	36	0	22.71	22.82	22.73
	36	19	22.90	22.85	22.85
	36	39	22.87	22.85	22.77
	75	0	22.81	22.82	22.80
16QAM	1	0	23.23	23.41	22.88
	1	37	22.70	23.42	22.92
	1	74	23.01	23.45	22.90
	36	0	21.82	21.78	21.74
	36	19	21.84	21.88	21.81
	36	39	21.94	21.86	21.77
	75	0	21.84	21.76	21.75
64QAM	1	0	21.79	22.31	21.70
	1	37	22.05	21.74	21.86
	1	74	22.12	22.06	21.70
	36	0	20.76	20.81	20.88
	36	19	20.87	21.00	20.88
	36	39	20.94	20.97	20.80
	75	0	20.92	20.78	20.98
256QAM	1	0	18.61	19.11	19.10
	1	37	18.90	19.06	19.16
	1	74	19.04	19.06	18.77
	36	0	18.80	18.93	18.86
	36	19	18.87	18.90	18.89
	36	39	18.88	18.87	18.99
	75	0	18.92	18.90	18.84

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.71	24.21	23.71	25.21	30
16QAM	21.74	23.45	22.74	24.45	30
64QAM	20.76	22.31	21.76	23.31	30
256QAM	18.61	19.16	19.61	20.16	30

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

LTE Band 66, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132072	CH 132322	CH 132572
			1720 MHz	1745 MHz	1770 MHz
QPSK	1	0	23.86	24.26	24.01
	1	50	23.78	23.98	23.89
	1	99	24.07	23.87	23.84
	50	0	22.82	22.80	22.73
	50	25	22.87	22.88	22.83
	50	50	22.87	22.92	22.82
	100	0	22.86	22.75	22.74
16QAM	1	0	22.78	22.69	22.58
	1	50	22.92	22.42	23.36
	1	99	23.28	23.04	23.09
	50	0	21.77	21.85	21.84
	50	25	21.93	21.89	21.89
	50	50	21.83	21.90	21.86
	100	0	21.85	21.88	21.82
64QAM	1	0	22.10	21.85	21.73
	1	50	22.15	21.70	21.89
	1	99	21.88	22.08	21.90
	50	0	20.88	20.84	20.93
	50	25	21.04	20.87	20.70
	50	50	20.95	20.88	20.85
	100	0	21.17	20.87	20.78
256QAM	1	0	18.63	19.20	18.57
	1	50	19.50	18.58	19.00
	1	99	19.32	18.96	19.14
	50	0	18.78	18.85	18.82
	50	25	18.86	18.83	18.86
	50	50	18.90	18.91	18.86
	100	0	19.08	18.91	18.56

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.73	24.26	23.73	25.26	30
16QAM	21.77	23.36	22.77	24.36	30
64QAM	20.7	22.15	21.7	23.15	30
256QAM	18.56	19.5	19.56	20.5	30

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

7.1.19LTE 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	23.98	24.02	24.06
	1	12	24.27	24.13	24.17
	1	24	23.92	23.95	24.04
	12	0	23.07	23.00	23.02
	12	6	23.21	23.13	23.13
	12	13	23.13	23.08	23.06
	25	0	23.14	23.00	23.05
16QAM	1	0	23.40	23.14	23.38
	1	12	23.47	23.59	23.47
	1	24	23.50	23.34	23.23
	12	0	22.12	22.19	22.07
	12	6	22.22	22.17	22.06
	12	13	22.12	22.14	22.06
	25	0	22.06	22.08	21.95
64QAM	1	0	22.43	22.48	22.56
	1	12	22.35	22.62	22.48
	1	24	22.50	22.32	22.20
	12	0	21.18	21.14	21.09
	12	6	21.32	21.12	21.16
	12	13	21.26	21.13	21.01
	25	0	21.19	21.07	21.04
256QAM	1	0	19.44	19.21	19.54
	1	12	19.34	19.28	19.29
	1	24	19.06	19.23	19.04
	12	0	19.10	19.01	19.10
	12	6	19.18	19.13	19.15
	12	13	19.01	19.07	19.04
	25	0	19.08	19.16	19.08

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23	24.27	21.85	23.12	44.77
16QAM	21.95	23.59	20.8	22.44	44.77
64QAM	21.01	22.62	19.86	21.47	44.77
256QAM	19.01	19.54	17.86	18.39	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	24.16	24.13	24.18
	1	24	24.26	24.19	24.06
	1	49	24.13	24.07	24.09
	25	0	23.11	23.15	23.11
	25	12	23.06	23.07	23.09
	25	25	23.13	23.15	23.16
	50	0	23.21	23.12	23.10
16QAM	1	0	23.49	23.45	23.32
	1	24	23.27	23.30	23.40
	1	49	23.23	23.27	23.40
	25	0	22.27	22.14	22.19
	25	12	22.25	22.09	22.28
	25	25	22.14	22.16	22.16
	50	0	22.21	22.07	22.19
64QAM	1	0	22.19	22.38	22.49
	1	24	22.32	22.18	22.44
	1	49	22.60	22.52	22.41
	25	0	21.13	21.10	21.07
	25	12	21.18	21.15	21.13
	25	25	21.14	21.08	21.09
	50	0	21.17	21.06	21.15
256QAM	1	0	19.20	19.09	19.13
	1	24	19.24	19.22	19.23
	1	49	19.07	19.08	19.21
	25	0	19.12	19.14	19.18
	25	12	19.14	19.15	19.11
	25	25	19.17	19.10	19.09
	50	0	19.15	19.11	19.17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.06	24.26	21.91	23.11	44.77
16QAM	22.07	23.49	20.92	22.34	44.77
64QAM	21.06	22.6	19.91	21.45	44.77
256QAM	19.07	19.24	17.92	18.09	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	24.20	24.29	24.27
	1	37	24.15	24.32	24.18
	1	74	24.08	24.08	24.03
	36	0	23.21	23.08	23.08
	36	19	23.23	23.12	23.01
	36	39	23.15	23.13	23.11
	75	0	23.11	23.03	23.07
16QAM	1	0	23.25	23.14	23.39
	1	37	23.38	23.25	23.49
	1	74	23.42	23.27	23.31
	36	0	22.19	22.09	22.12
	36	19	22.17	22.14	22.15
	36	39	22.21	22.16	22.16
	75	0	22.26	22.06	22.08
64QAM	1	0	22.44	22.30	22.26
	1	37	22.31	22.27	22.29
	1	74	22.21	22.24	22.43
	36	0	21.07	21.08	21.19
	36	19	21.22	21.10	21.13
	36	39	21.15	21.14	21.10
	75	0	21.13	21.10	21.07
256QAM	1	0	19.27	19.72	19.51
	1	37	19.17	19.55	19.10
	1	74	19.21	19.15	19.15
	36	0	19.06	19.09	19.10
	36	19	19.09	19.10	19.12
	36	39	19.03	19.05	19.08
	75	0	19.18	19.13	19.06

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.01	24.32	21.86	23.17	44.77
16QAM	22.06	23.49	20.91	22.34	44.77
64QAM	21.07	22.44	19.92	21.29	44.77
256QAM	19.03	19.72	17.88	18.57	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	24.11	24.35	24.29
	1	50	24.13	24.24	24.07
	1	99	24.11	24.29	24.21
	50	0	23.14	23.15	23.06
	50	25	23.18	23.06	23.10
	50	50	23.04	23.08	23.05
	100	0	23.11	23.04	23.09
16QAM	1	0	23.12	23.33	23.42
	1	50	23.31	23.17	23.28
	1	99	23.18	23.14	23.05
	50	0	22.08	22.18	22.12
	50	25	22.19	22.13	22.15
	50	50	22.06	22.05	22.09
	100	0	22.11	22.17	22.12
64QAM	1	0	22.30	22.45	22.40
	1	50	22.15	22.09	22.21
	1	99	21.90	21.88	21.68
	50	0	21.10	21.11	21.20
	50	25	21.14	21.13	21.17
	50	50	21.10	21.05	21.08
	100	0	21.08	21.13	21.13
256QAM	1	0	19.21	19.02	19.29
	1	50	19.17	19.14	19.11
	1	99	18.99	19.27	18.94
	50	0	19.11	19.14	19.04
	50	25	19.11	19.06	19.16
	50	50	19.05	19.07	19.05
	100	0	19.24	19.11	19.12

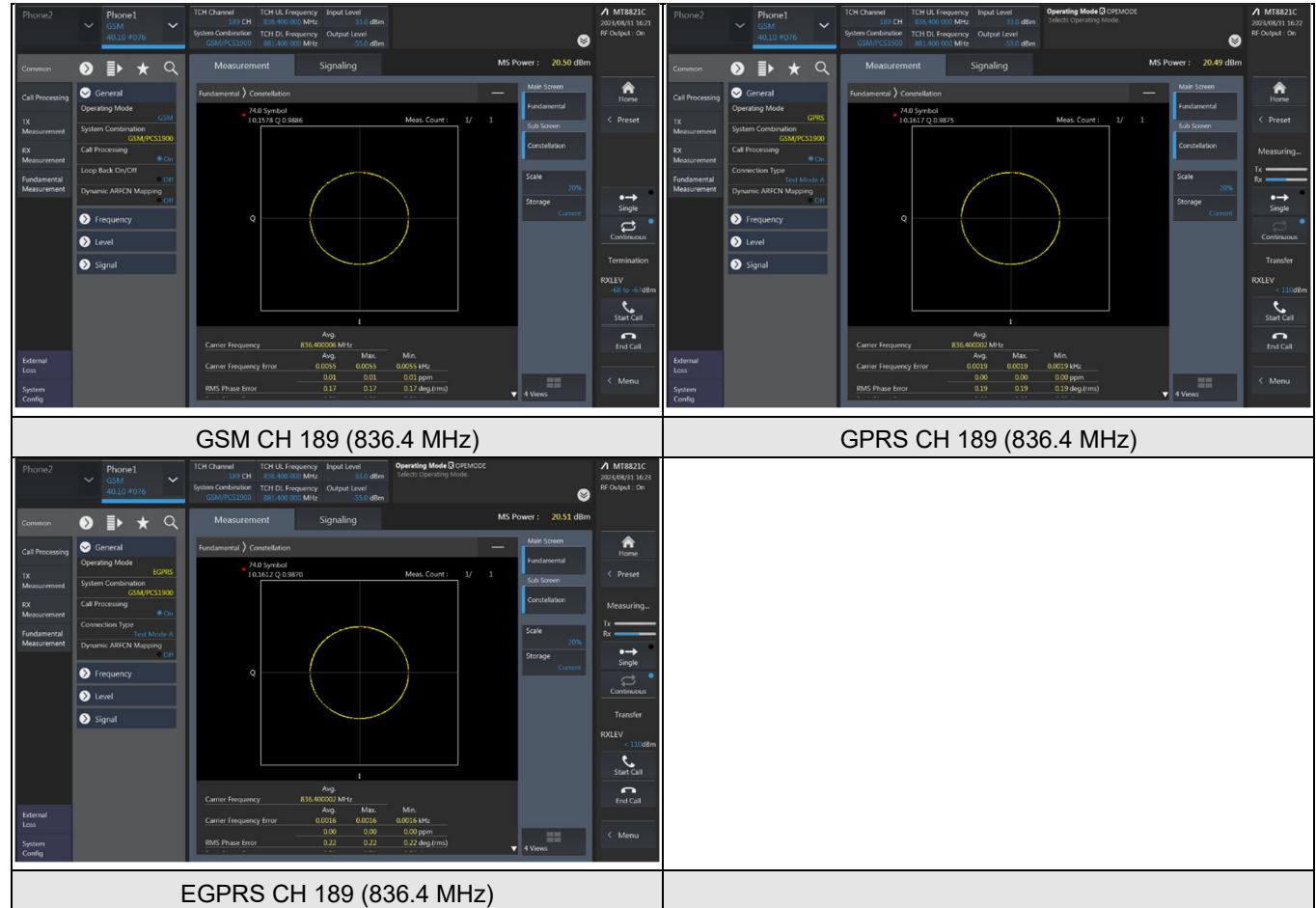
Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.04	24.35	21.89	23.2	44.77
16QAM	22.05	23.42	20.9	22.27	44.77
64QAM	21.05	22.45	19.9	21.3	44.77
256QAM	18.94	19.29	17.79	18.14	44.77

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

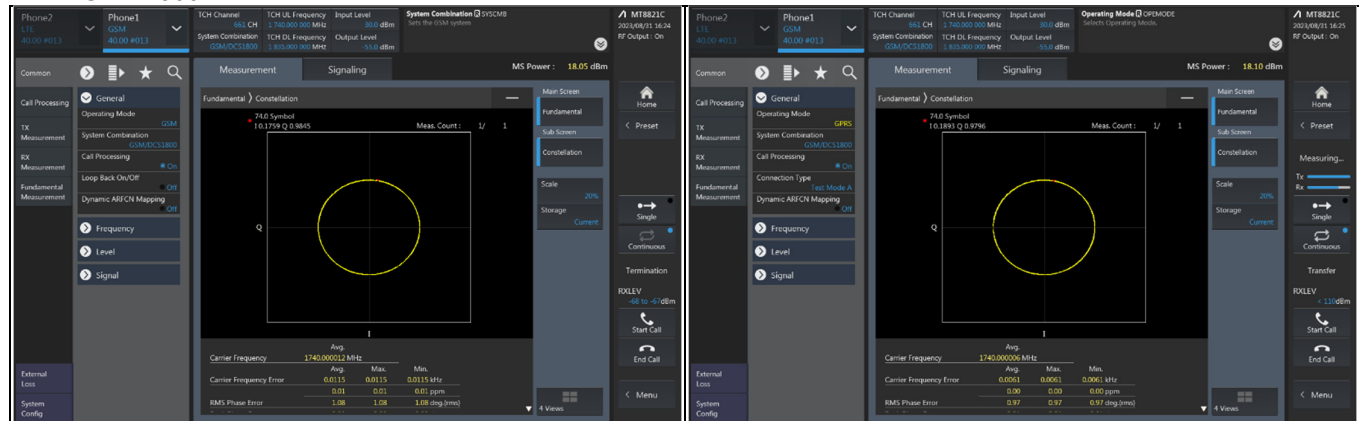
7.2 Modulation Characteristics

Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang
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7.2.1 GSM 850

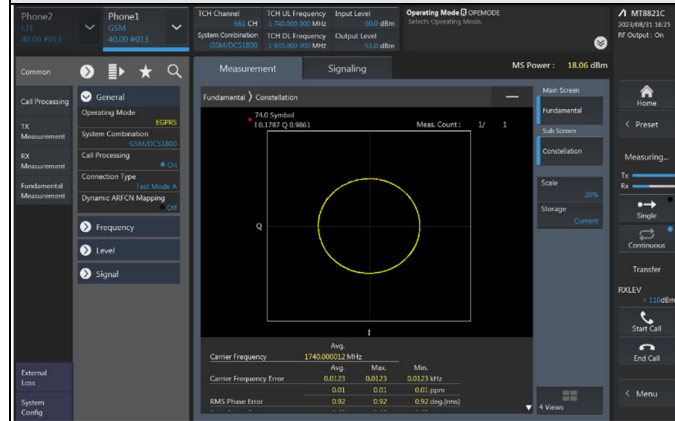


7.2.2 GSM 1900



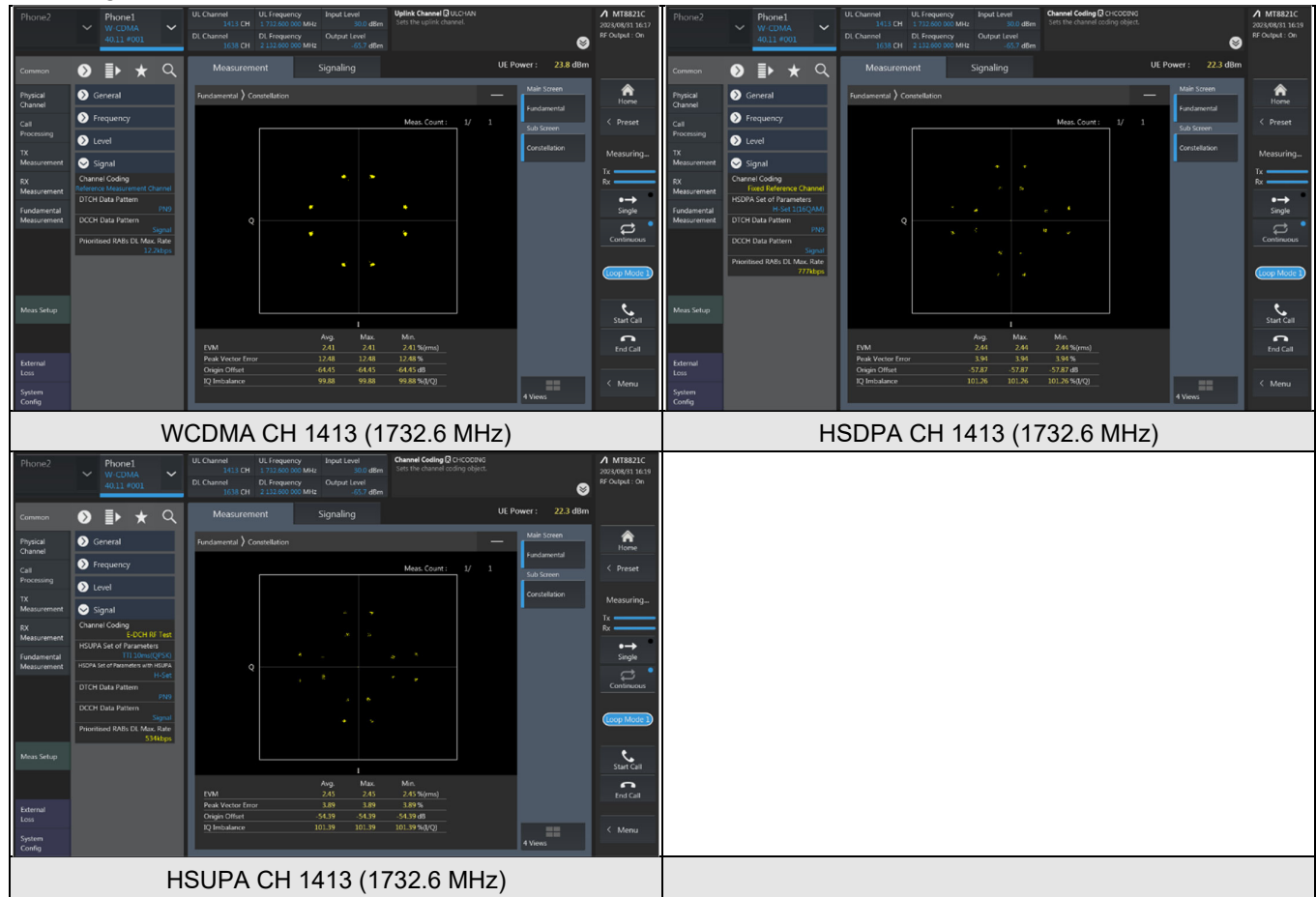
GSM CH 661 (1880 MHz)

GPRS CH 661 (1880 MHz)

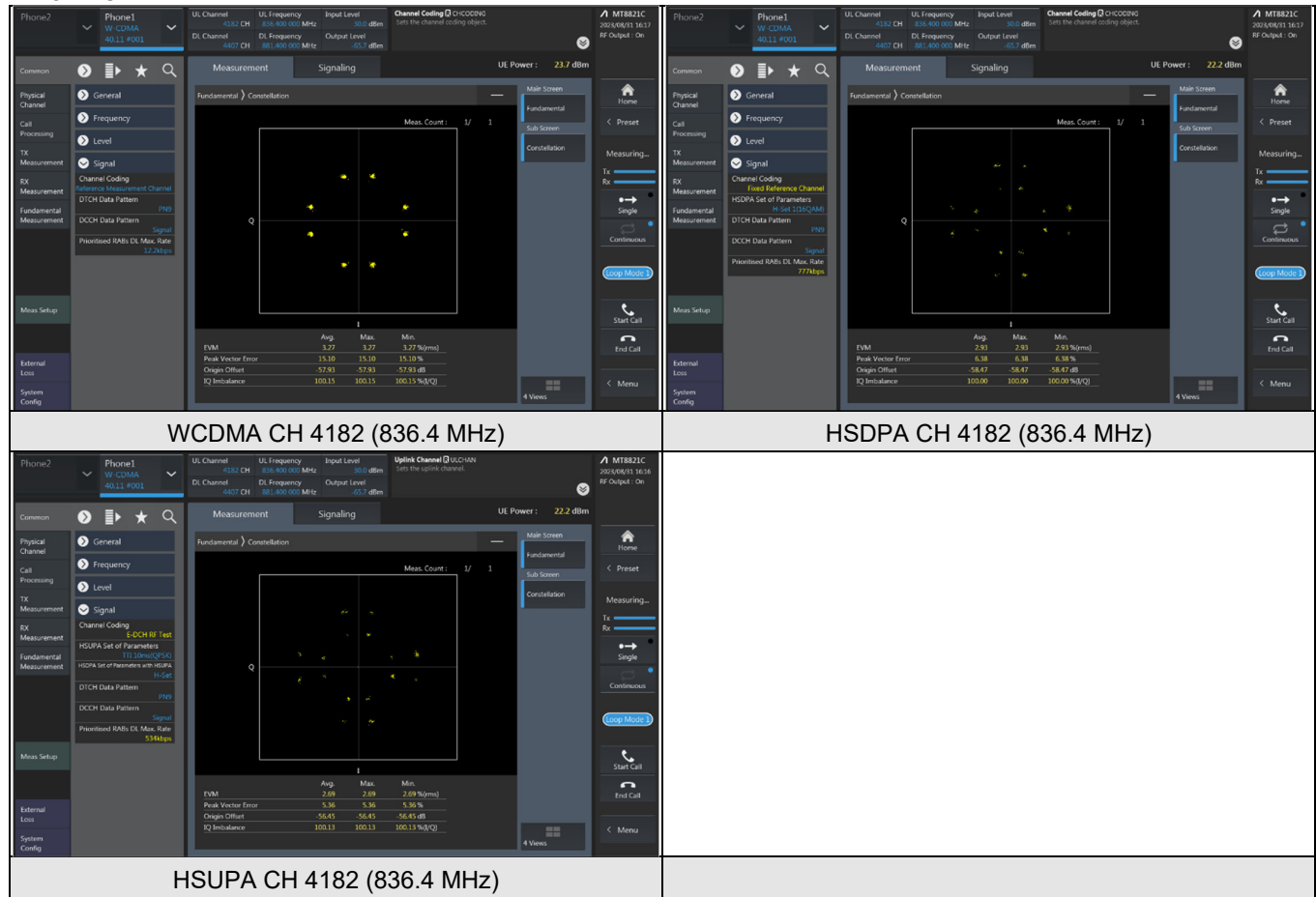


EGPRS CH 661 (1880 MHz)

7.2.4 WCDMA Band IV

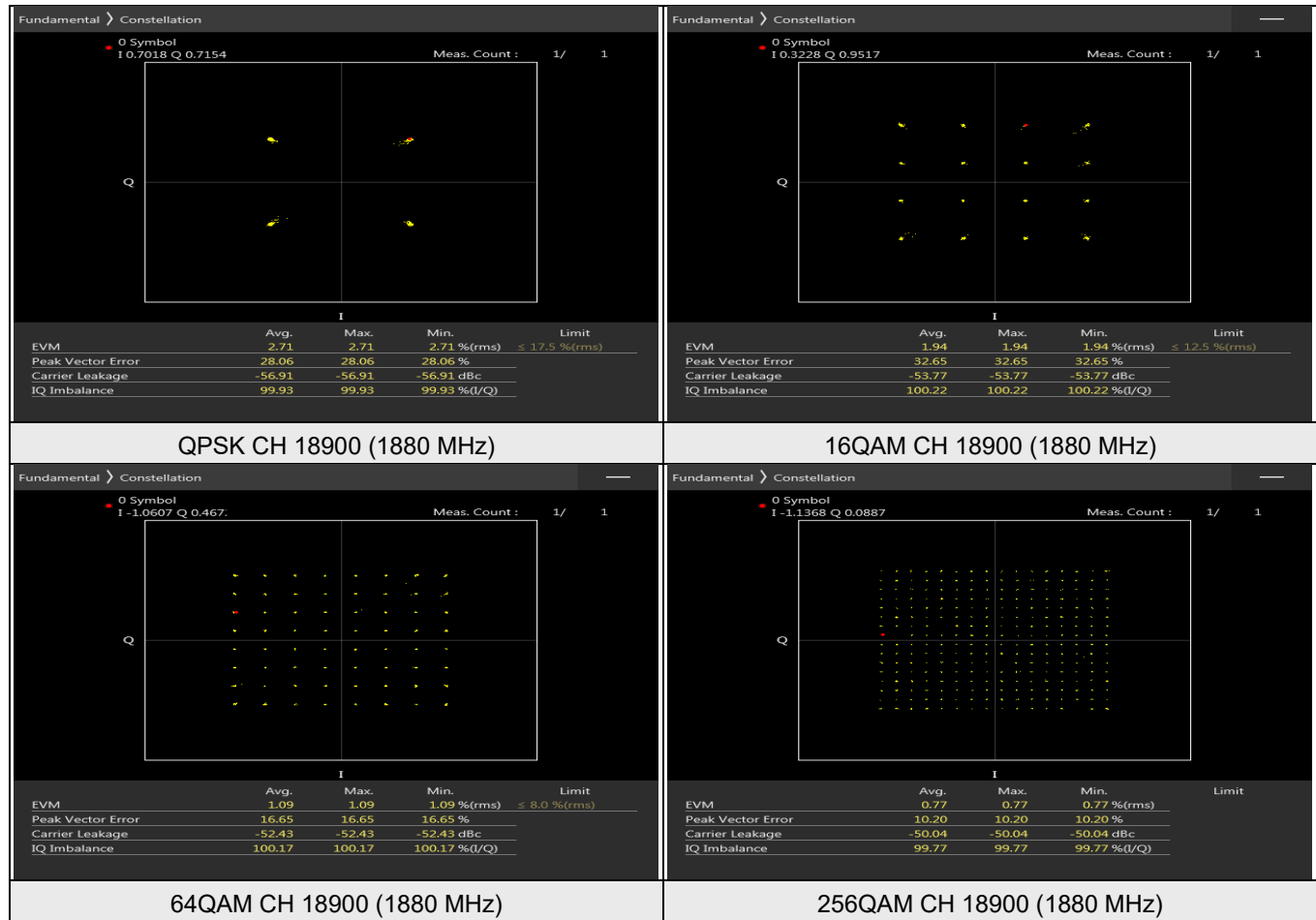


7.2.5 WCDMA Band V



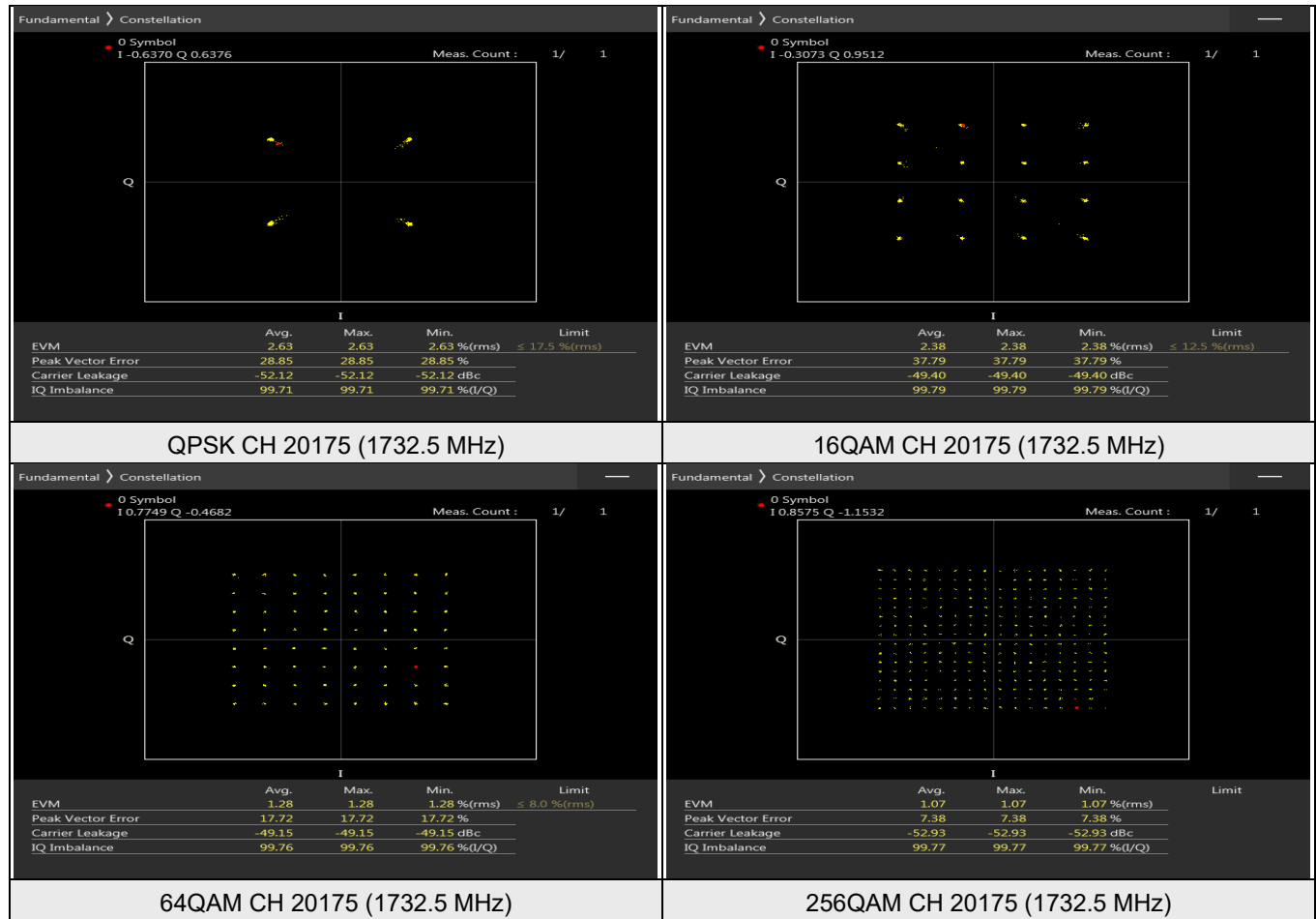
7.2.6 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz



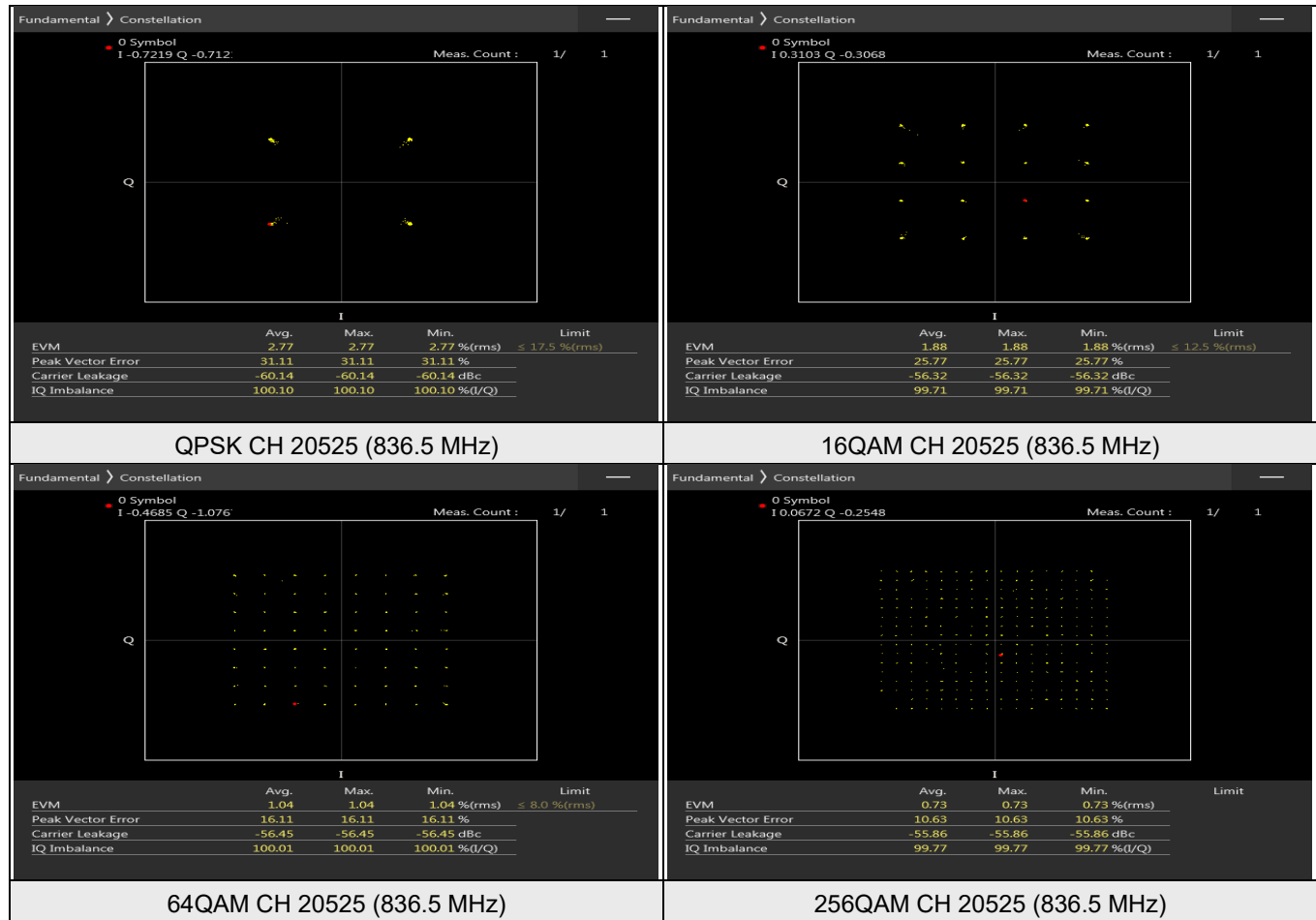
7.2.7 LTE Band 4

LTE Band 4, Channel Bandwidth: 20 MHz



7.2.8 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz



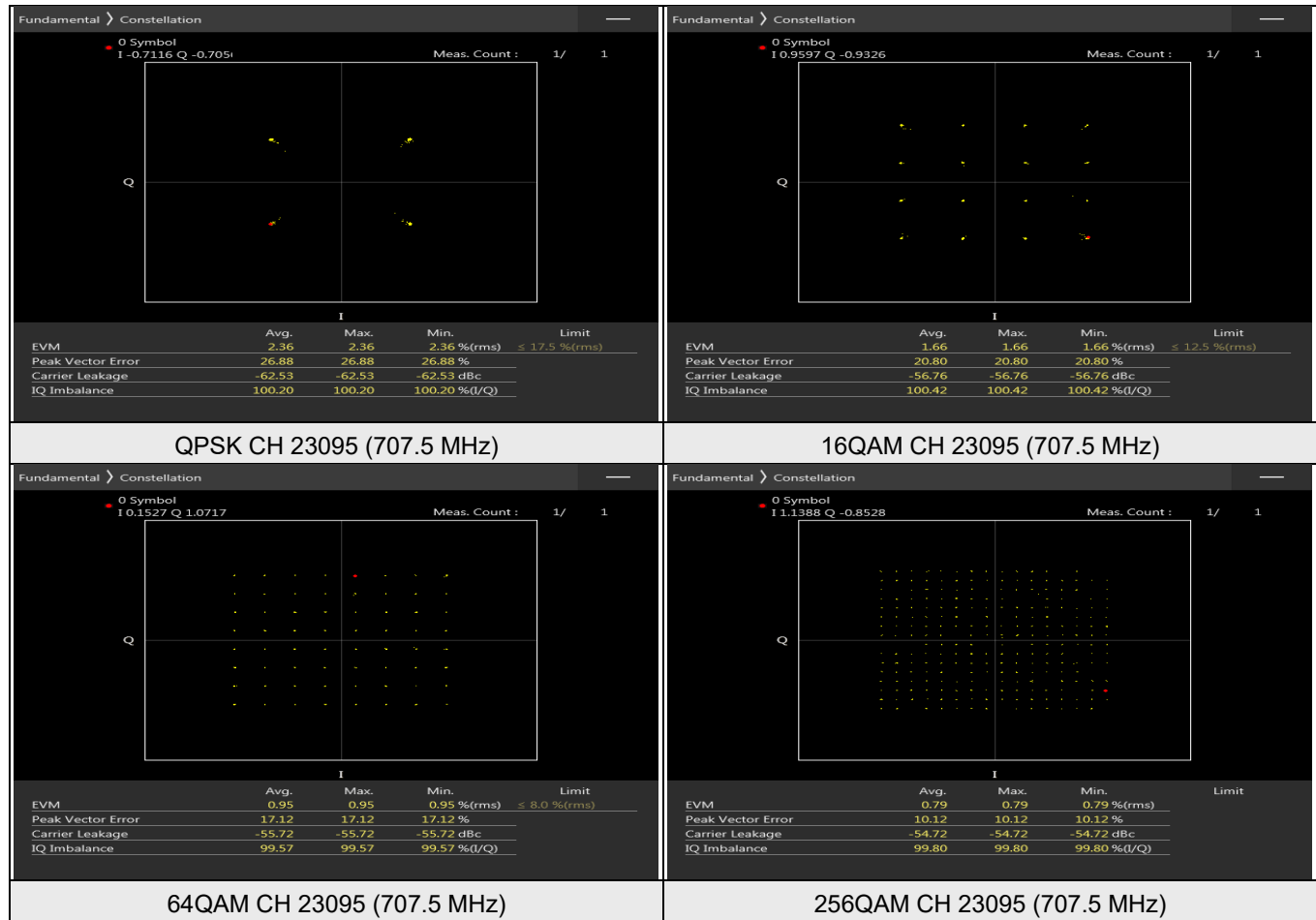
7.2.9 LTE Band 7

LTE Band 7, Channel Bandwidth: 20 MHz



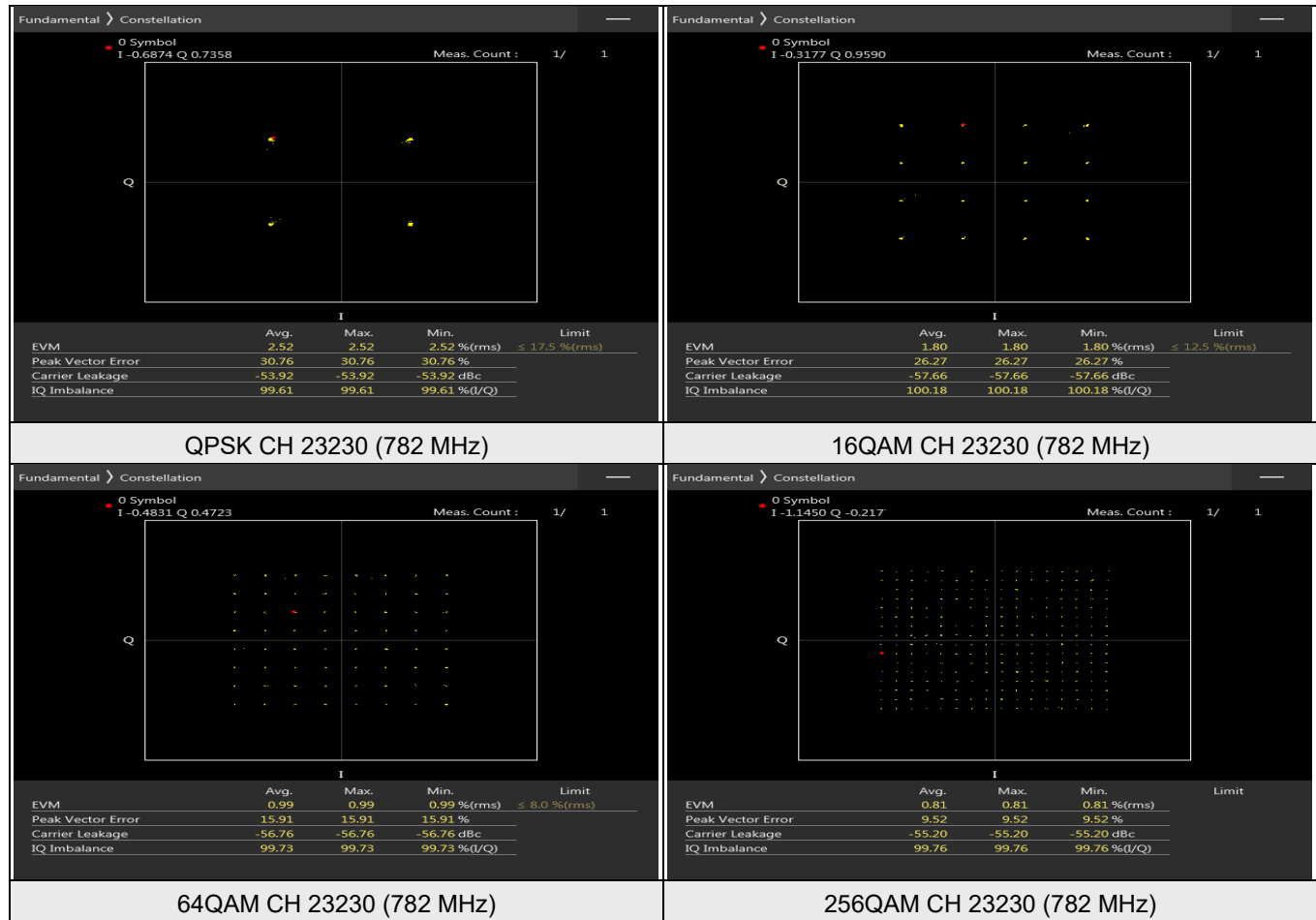
7.2.10LTE Band 12

LTE Band 12, Channel Bandwidth: 10 MHz



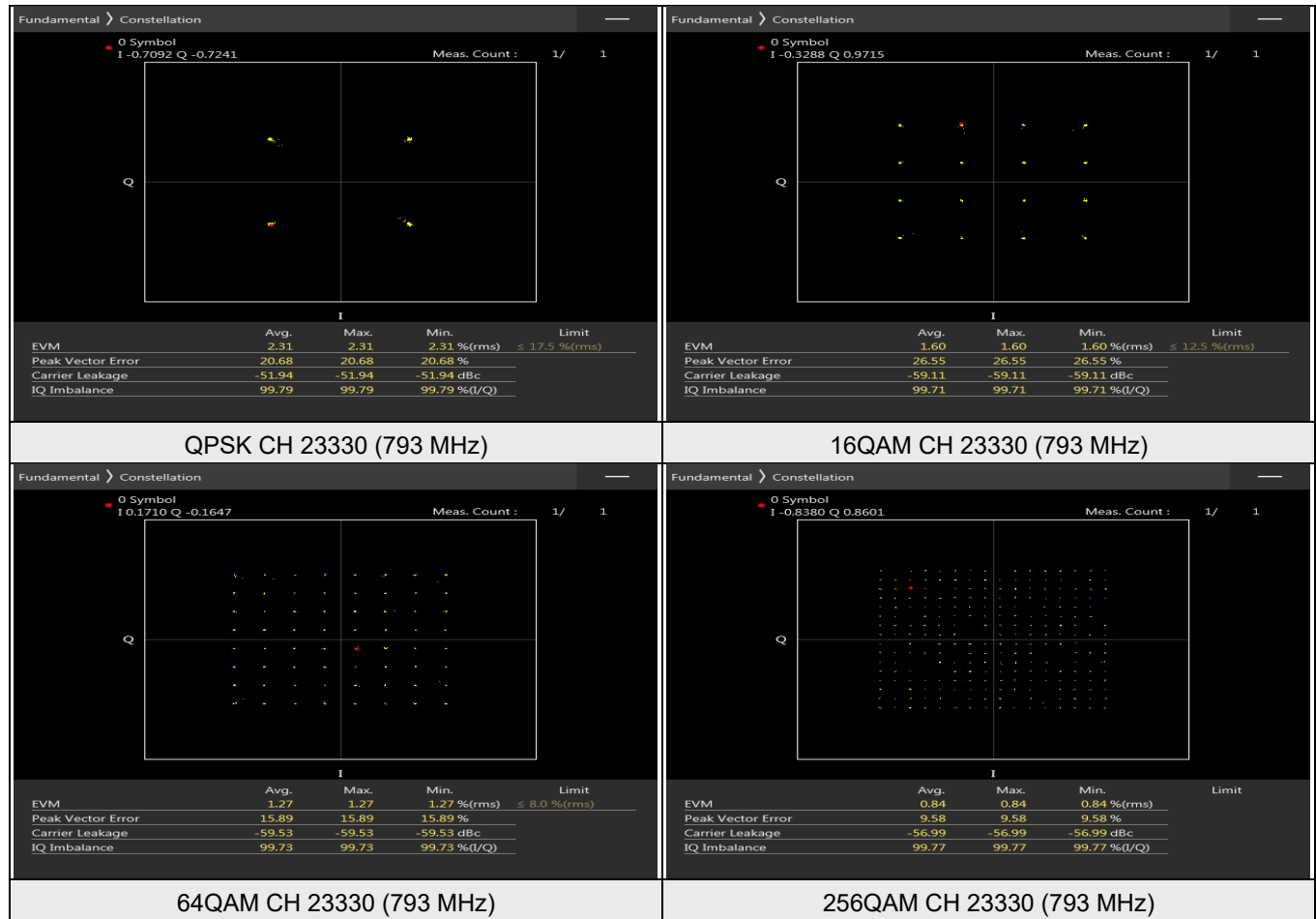
7.2.11LTE Band 13

LTE Band 13, Channel Bandwidth: 10 MHz



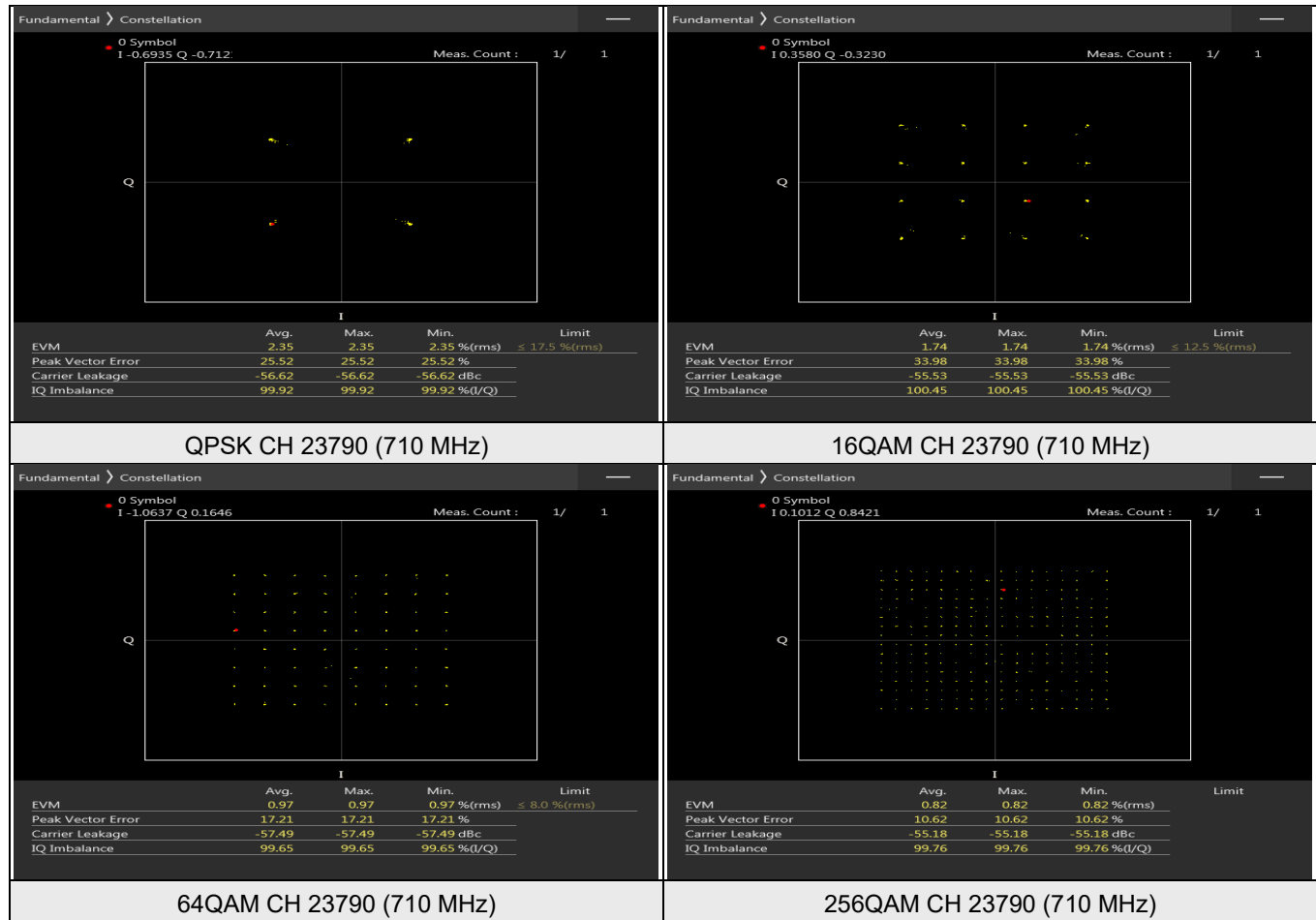
7.2.12LTE Band 14

LTE Band 14, Channel Bandwidth: 10 MHz



7.2.13LTE Band 17

LTE Band 17, Channel Bandwidth: 10 MHz



7.2.14LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz



7.2.15LTE Band 26 (814 MHz ~ 824 MHz)

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

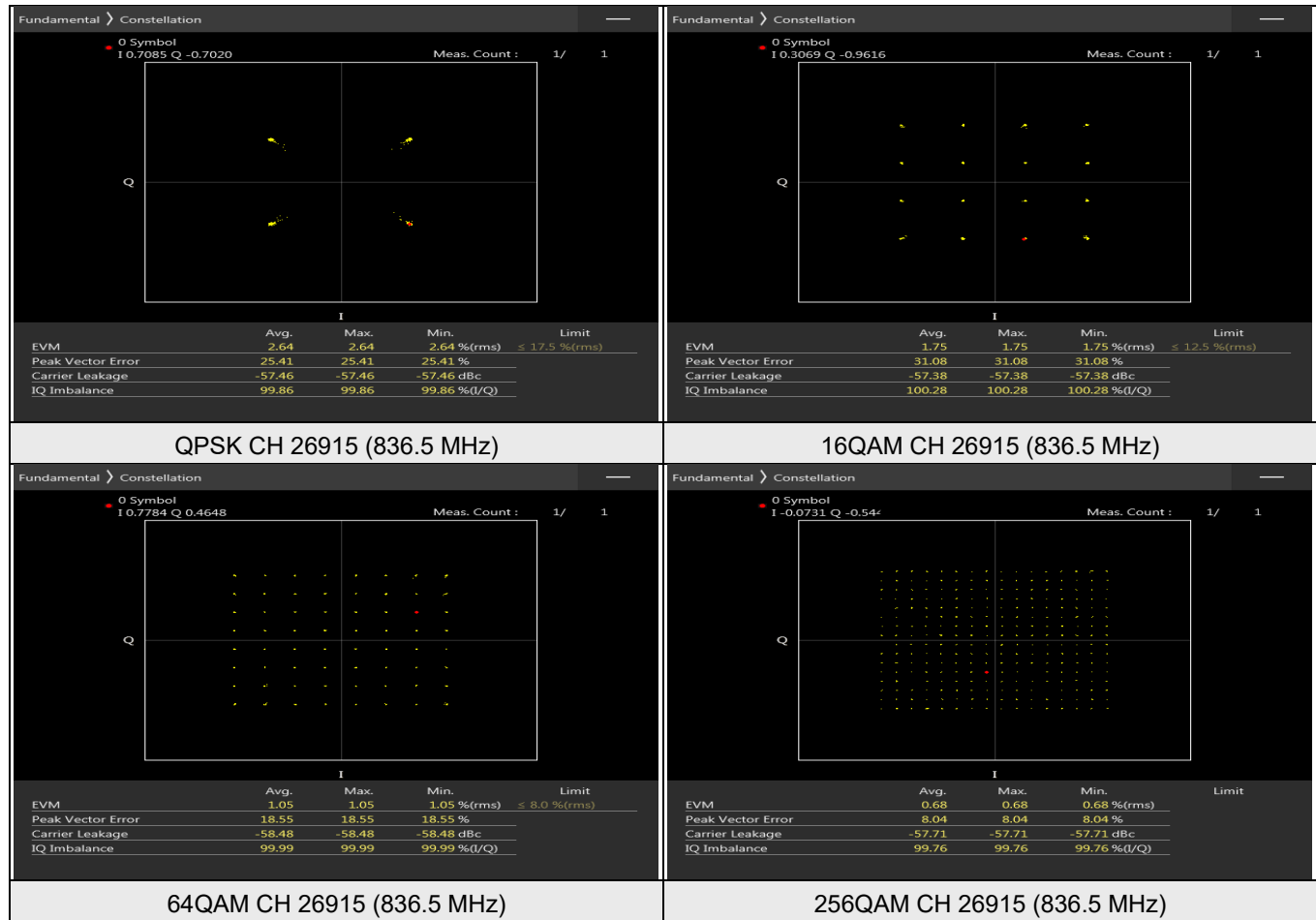


LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz



7.2.16LTE Band 26 (824 MHz ~ 849 MHz)

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



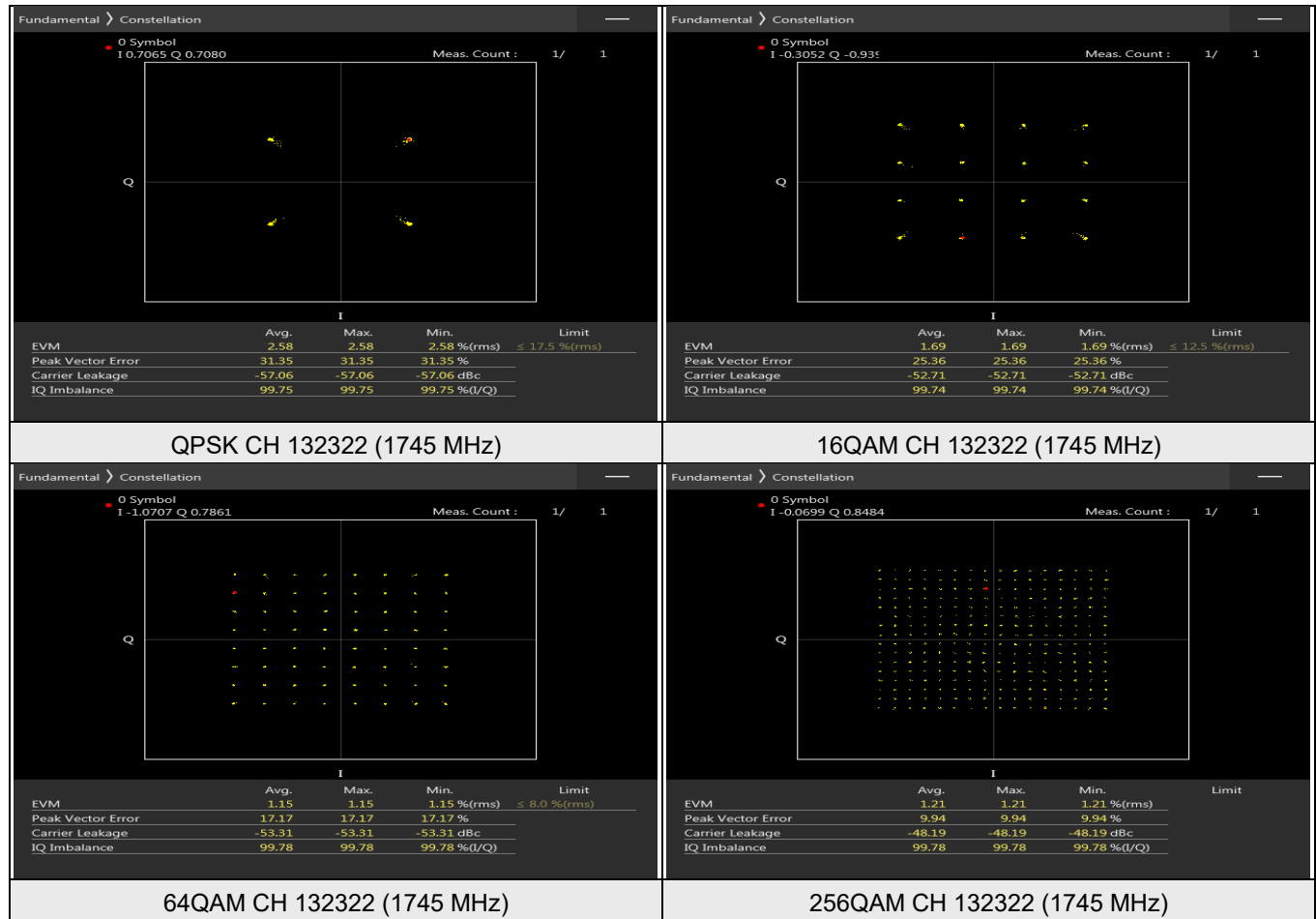
7.2.17LTE Band 41

LTE Band 41, Channel Bandwidth: 20 MHz



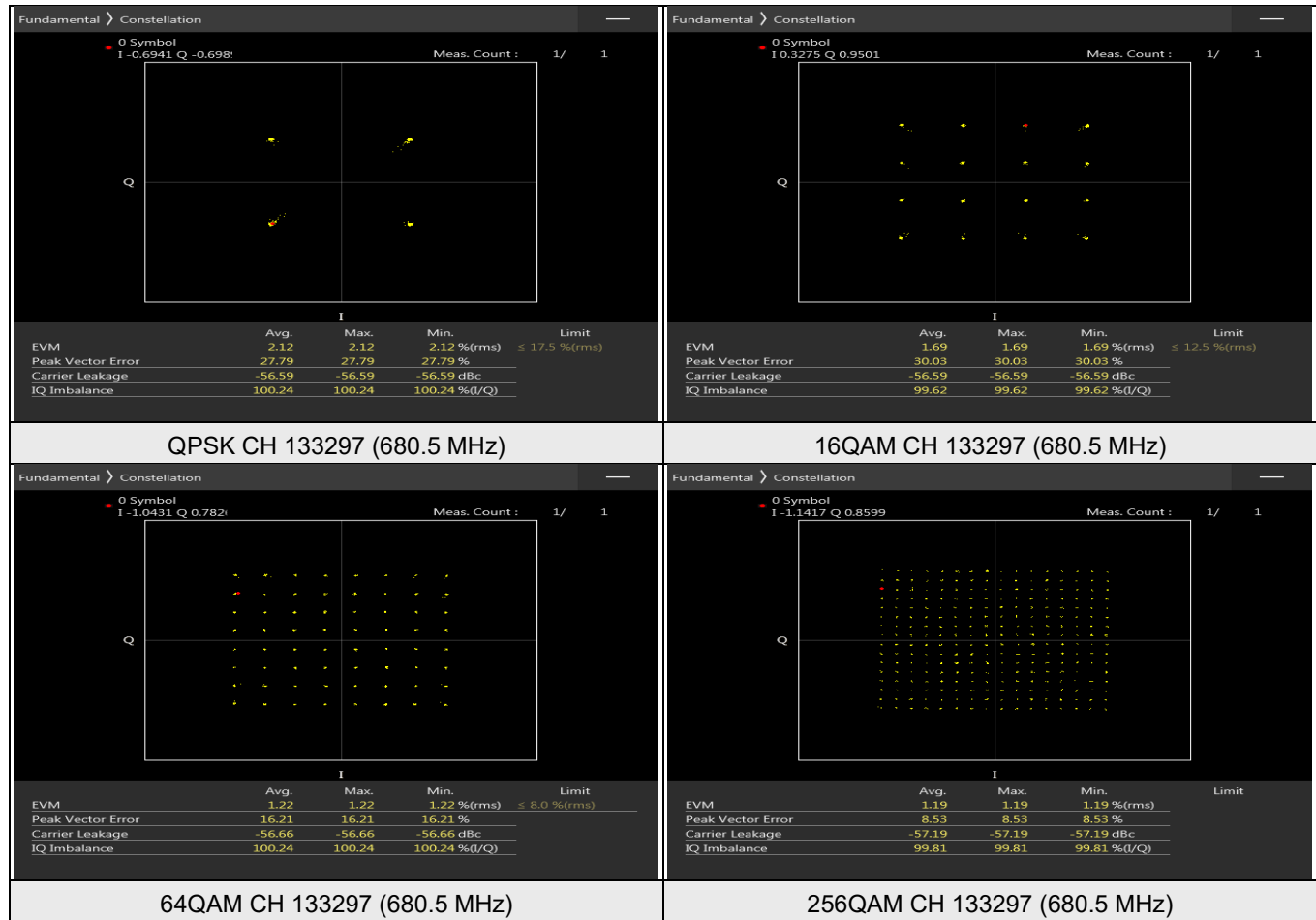
7.2.18LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz



7.2.19LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz

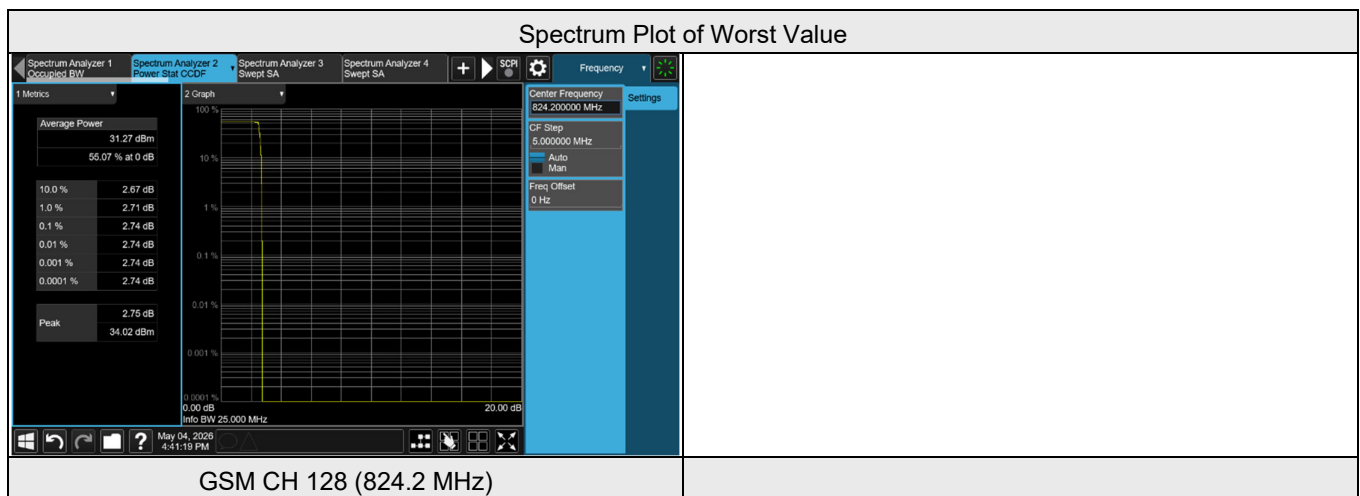


7.3 Peak to Average Ratio

Environmental Conditions:	25°C, 68% RH	Tested By:	Noah Chang
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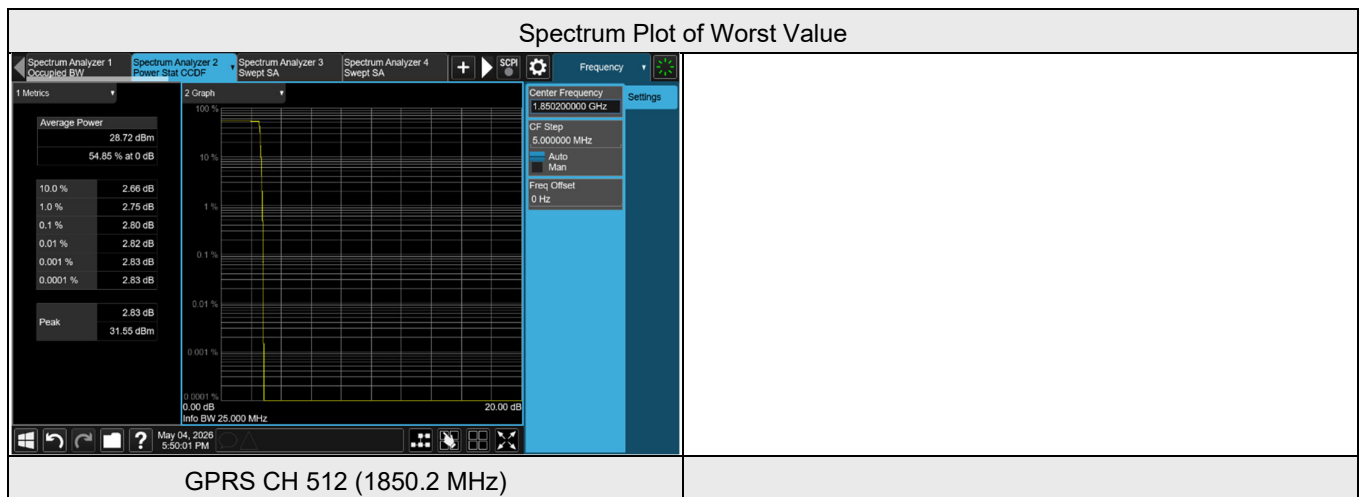
7.3.1 GSM 850

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
GSM	128	824.2	2.74	13	Pass
GSM	189	836.4	2.70	13	Pass
GSM	251	848.8	2.70	13	Pass
GPRS	128	824.2	2.69	13	Pass
GPRS	189	836.4	2.70	13	Pass
GPRS	251	848.8	2.70	13	Pass
EGPRS	128	824.2	2.70	13	Pass
EGPRS	189	836.4	2.70	13	Pass
EGPRS	251	848.8	2.70	13	Pass



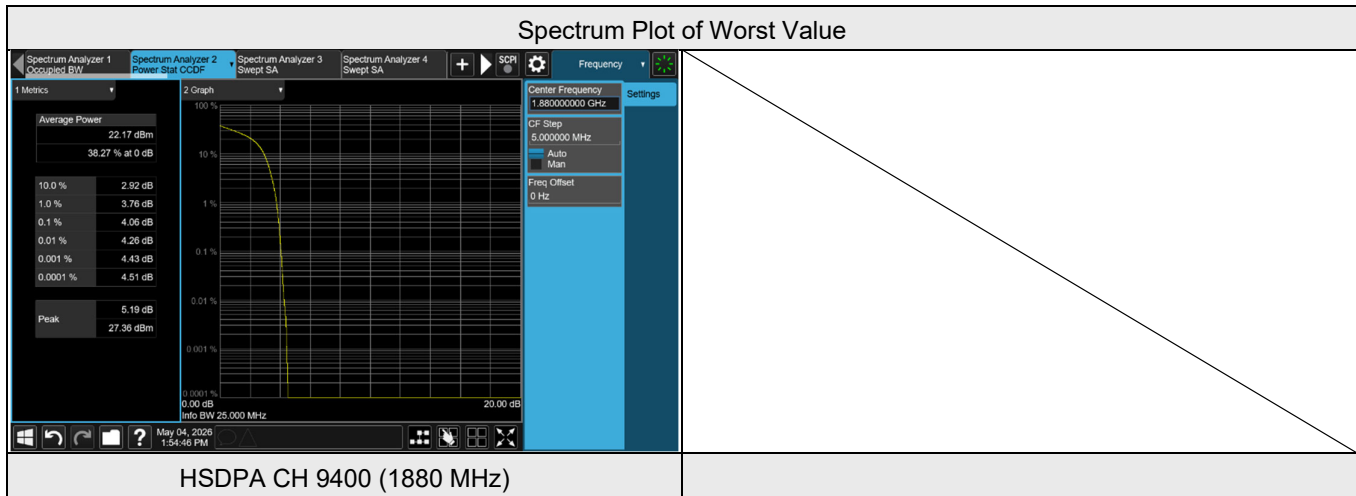
7.3.2 GSM 1900

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
GSM	512	1850.2	2.79	13	Pass
GSM	661	1880.0	2.79	13	Pass
GSM	810	1909.8	2.78	13	Pass
GPRS	512	1850.2	2.80	13	Pass
GPRS	661	1880.0	2.79	13	Pass
GPRS	810	1909.8	2.77	13	Pass
EGPRS	512	1850.2	2.80	13	Pass
EGPRS	661	1880.0	2.80	13	Pass
EGPRS	810	1909.8	2.78	13	Pass



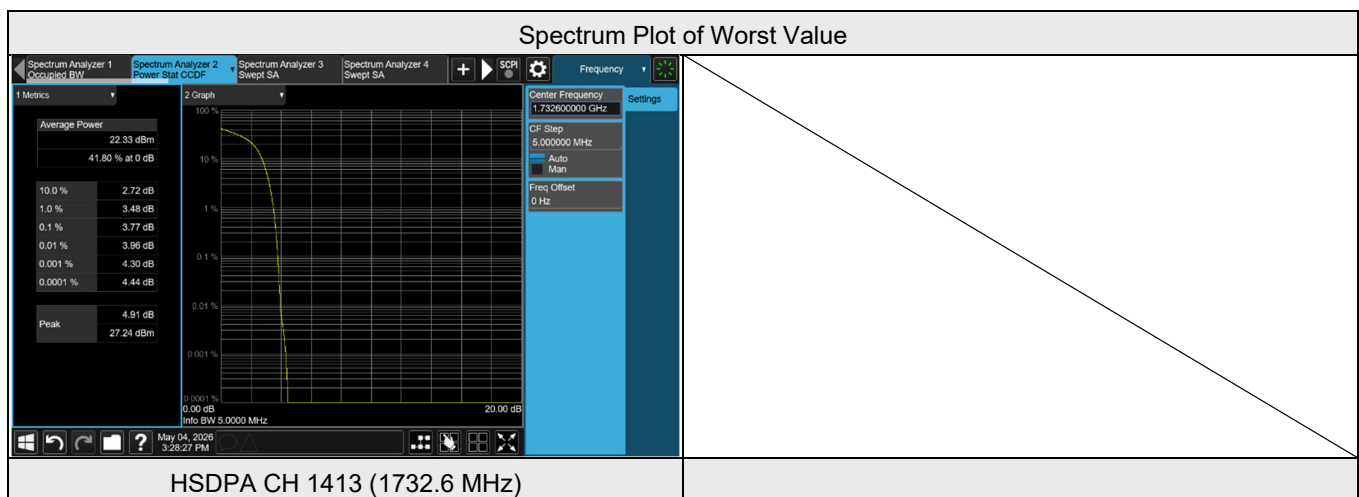
7.3.3 WCDMA Band II

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
WCDMA	9262	1852.4	2.69	13	Pass
WCDMA	9400	1880	2.67	13	Pass
WCDMA	9538	1907.6	2.66	13	Pass
HSDPA	9262	1852.4	3.68	13	Pass
HSDPA	9400	1880	4.06	13	Pass
HSDPA	9538	1907.6	3.72	13	Pass
HSUPA	9262	1852.4	3.61	13	Pass
HSUPA	9400	1880	3.60	13	Pass
HSUPA	9538	1907.6	3.56	13	Pass



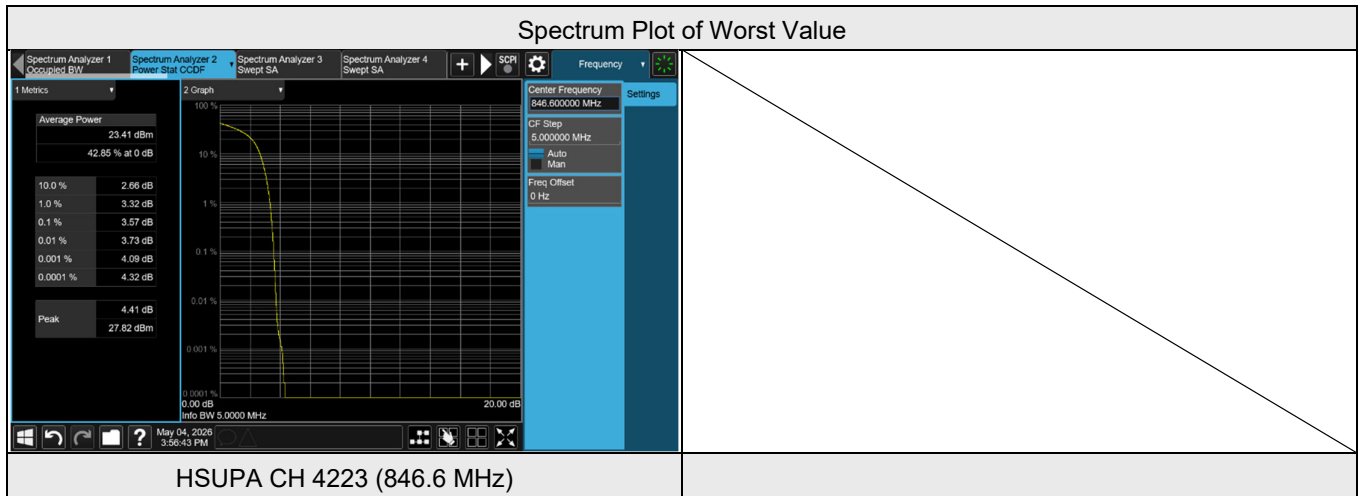
7.3.4 WCDMA Band IV

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
WCDMA	1312	1712.4	2.91	13	Pass
WCDMA	1413	1732.6	2.82	13	Pass
WCDMA	1513	1752.6	2.81	13	Pass
HSDPA	1312	1712.4	3.75	13	Pass
HSDPA	1413	1732.6	3.77	13	Pass
HSDPA	1513	1752.6	3.75	13	Pass
HSUPA	1312	1712.4	3.77	13	Pass
HSUPA	1413	1732.6	3.74	13	Pass
HSUPA	1513	1752.6	3.75	13	Pass



7.3.5 WCDMA Band V

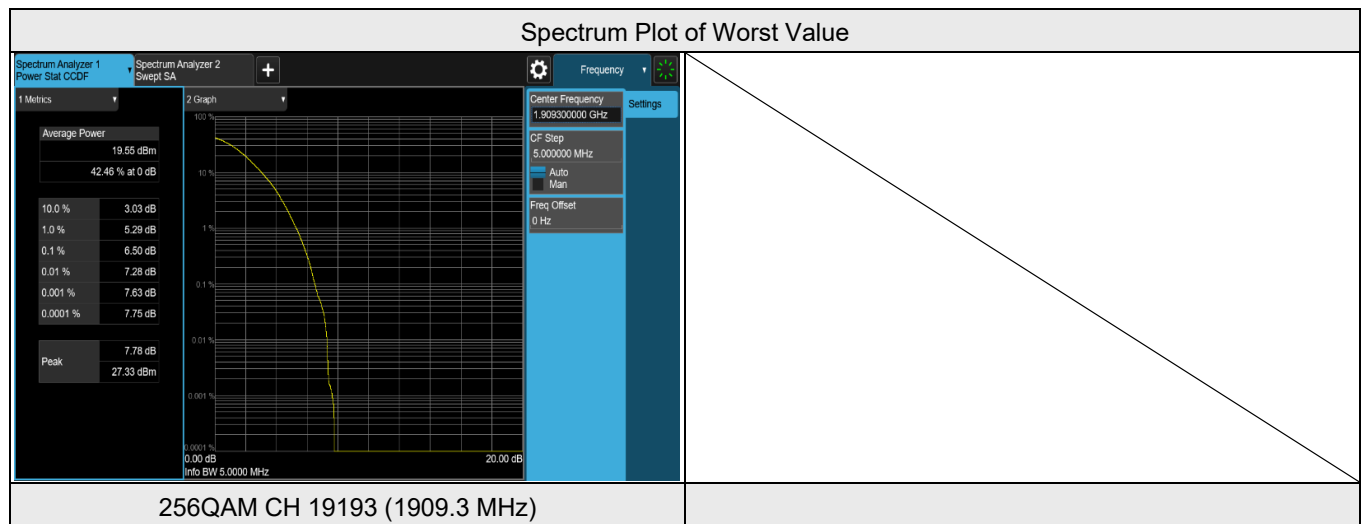
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
WCDMA	4132	826.4	2.22	13	Pass
WCDMA	4182	836.4	2.51	13	Pass
WCDMA	4223	846.6	2.51	13	Pass
HSDPA	4132	826.4	3.33	13	Pass
HSDPA	4182	836.4	3.47	13	Pass
HSDPA	4223	846.6	3.52	13	Pass
HSUPA	4132	826.4	3.41	13	Pass
HSUPA	4182	836.4	3.56	13	Pass
HSUPA	4223	846.6	3.57	13	Pass



7.3.6 LTE Band 2

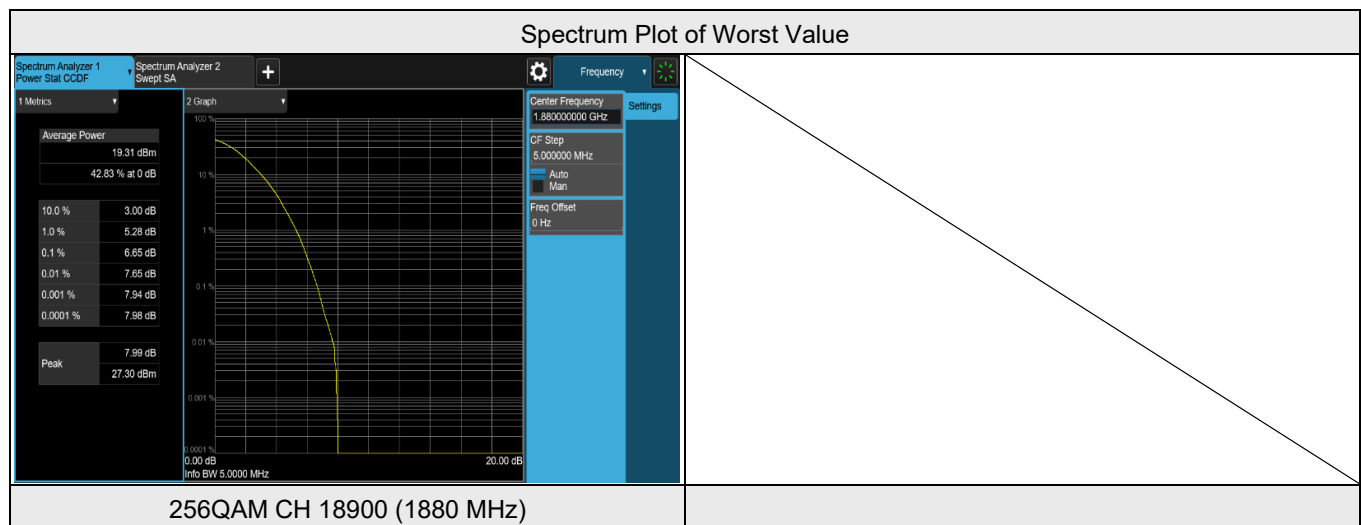
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18607	1850.7	3.49	13	PASS
QPSK	18900	1880	3.63	13	PASS
QPSK	19193	1909.3	3.59	13	PASS
16QAM	18607	1850.7	4.24	13	PASS
16QAM	18900	1880	4.25	13	PASS
16QAM	19193	1909.3	4.41	13	PASS
64QAM	18607	1850.7	5.38	13	PASS
64QAM	18900	1880	5.37	13	PASS
64QAM	19193	1909.3	5.30	13	PASS
256QAM	18607	1850.7	6.28	13	PASS
256QAM	18900	1880	6.43	13	PASS
256QAM	19193	1909.3	6.50	13	PASS



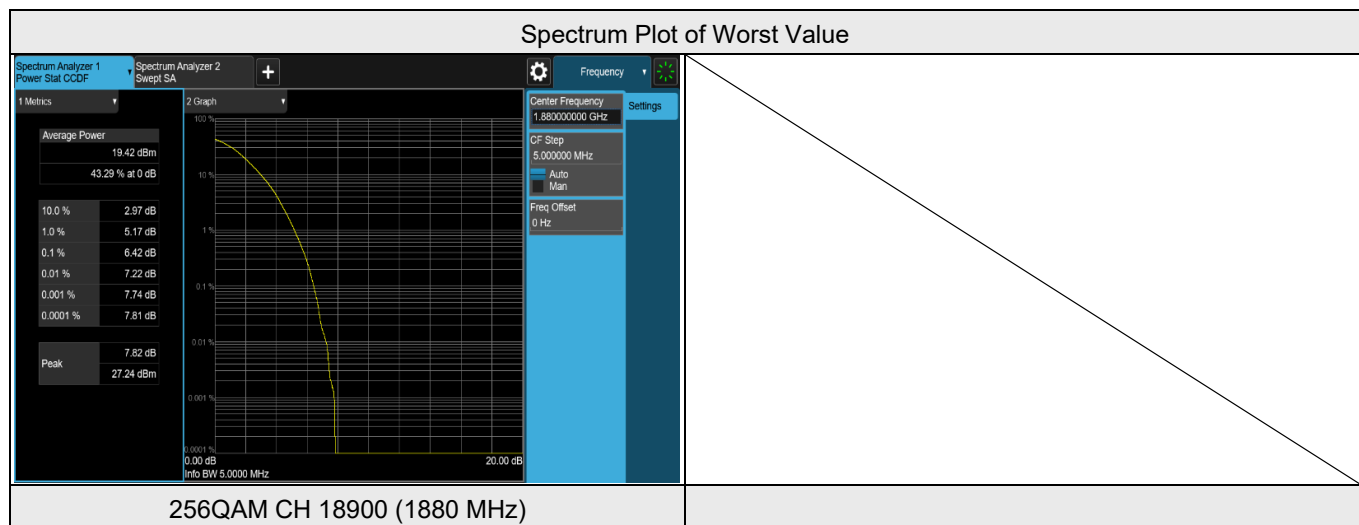
LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18615	1851.5	3.35	13	PASS
QPSK	18900	1880	3.65	13	PASS
QPSK	19185	1908.5	3.58	13	PASS
16QAM	18615	1851.5	4.26	13	PASS
16QAM	18900	1880	4.27	13	PASS
16QAM	19185	1908.5	4.38	13	PASS
64QAM	18615	1851.5	4.97	13	PASS
64QAM	18900	1880	5.31	13	PASS
64QAM	19185	1908.5	5.26	13	PASS
256QAM	18615	1851.5	6.15	13	PASS
256QAM	18900	1880	6.65	13	PASS
256QAM	19185	1908.5	6.31	13	PASS



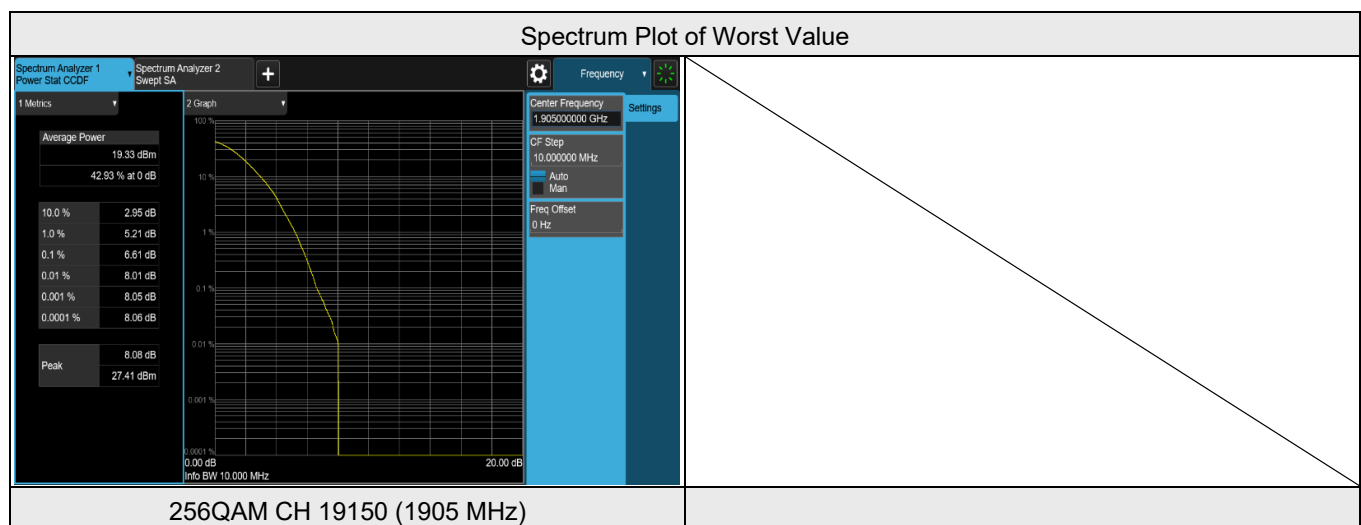
LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18625	1852.5	3.36	13	PASS
QPSK	18900	1880	3.44	13	PASS
QPSK	19175	1907.5	3.41	13	PASS
16QAM	18625	1852.5	4.07	13	PASS
16QAM	18900	1880	4.52	13	PASS
16QAM	19175	1907.5	4.22	13	PASS
64QAM	18625	1852.5	5.06	13	PASS
64QAM	18900	1880	5.29	13	PASS
64QAM	19175	1907.5	5.20	13	PASS
256QAM	18625	1852.5	6.16	13	PASS
256QAM	18900	1880	6.42	13	PASS
256QAM	19175	1907.5	6.35	13	PASS



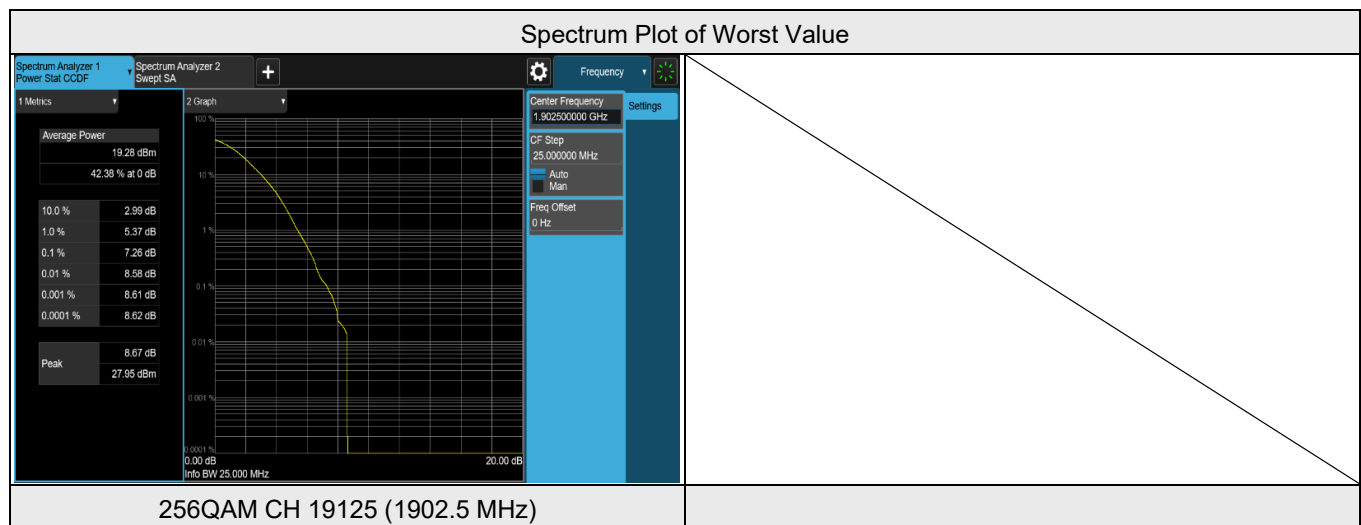
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18650	1855	3.37	13	PASS
QPSK	18900	1880	3.57	13	PASS
QPSK	19150	1905	3.50	13	PASS
16QAM	18650	1855	4.21	13	PASS
16QAM	18900	1880	4.46	13	PASS
16QAM	19150	1905	4.48	13	PASS
64QAM	18650	1855	4.92	13	PASS
64QAM	18900	1880	5.23	13	PASS
64QAM	19150	1905	5.11	13	PASS
256QAM	18650	1855	6.19	13	PASS
256QAM	18900	1880	6.47	13	PASS
256QAM	19150	1905	6.61	13	PASS



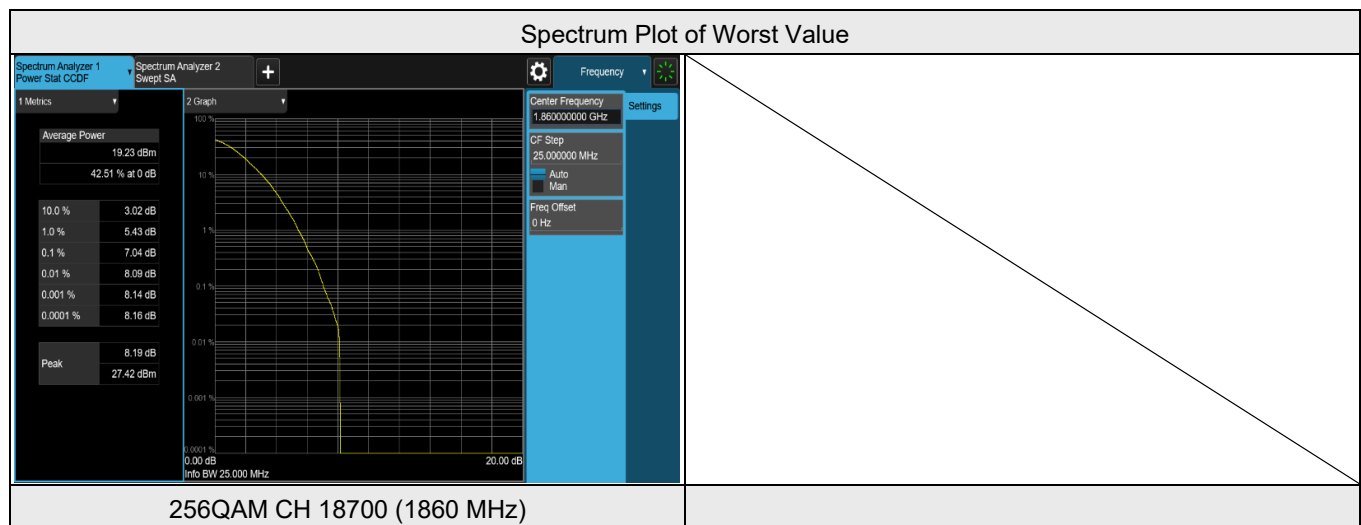
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18675	1857.5	3.40	13	PASS
QPSK	18900	1880	3.55	13	PASS
QPSK	19125	1902.5	4.03	13	PASS
16QAM	18675	1857.5	4.31	13	PASS
16QAM	18900	1880	4.27	13	PASS
16QAM	19125	1902.5	4.63	13	PASS
64QAM	18675	1857.5	4.90	13	PASS
64QAM	18900	1880	5.12	13	PASS
64QAM	19125	1902.5	5.70	13	PASS
256QAM	18675	1857.5	5.97	13	PASS
256QAM	18900	1880	6.48	13	PASS
256QAM	19125	1902.5	7.26	13	PASS



LTE Band 2, Channel Bandwidth: 20 MHz

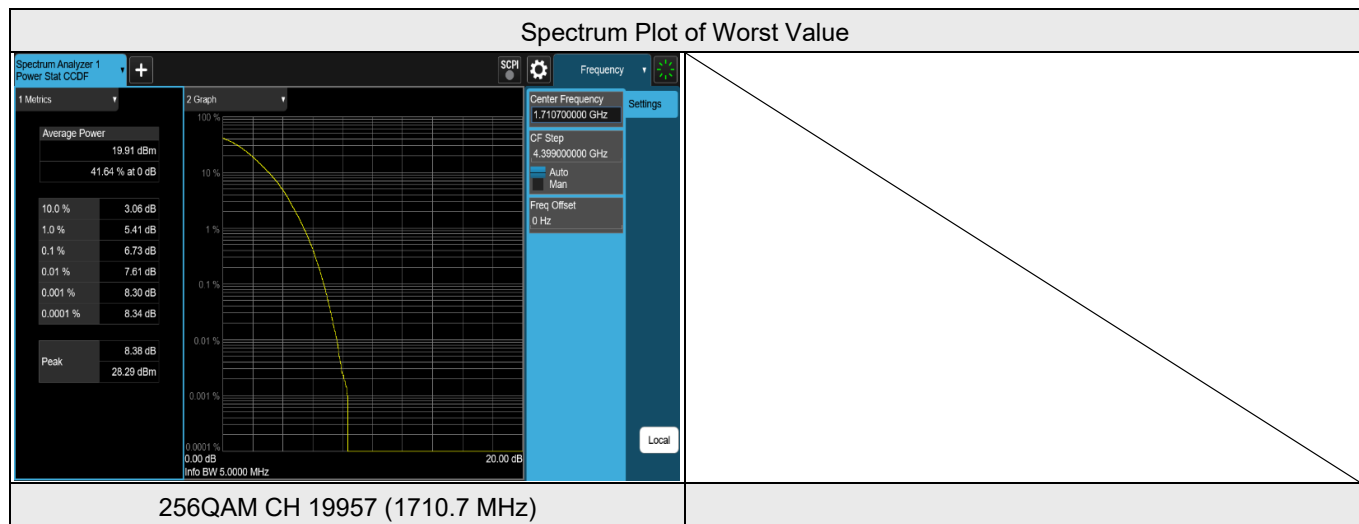
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18700	1860	3.49	13	PASS
QPSK	18900	1880	3.58	13	PASS
QPSK	19100	1900	4.18	13	PASS
16QAM	18700	1860	4.14	13	PASS
16QAM	18900	1880	4.55	13	PASS
16QAM	19100	1900	4.58	13	PASS
64QAM	18700	1860	4.88	13	PASS
64QAM	18900	1880	5.64	13	PASS
64QAM	19100	1900	5.68	13	PASS
256QAM	18700	1860	7.04	13	PASS
256QAM	18900	1880	6.57	13	PASS
256QAM	19100	1900	6.72	13	PASS



7.3.7 LTE Band 4

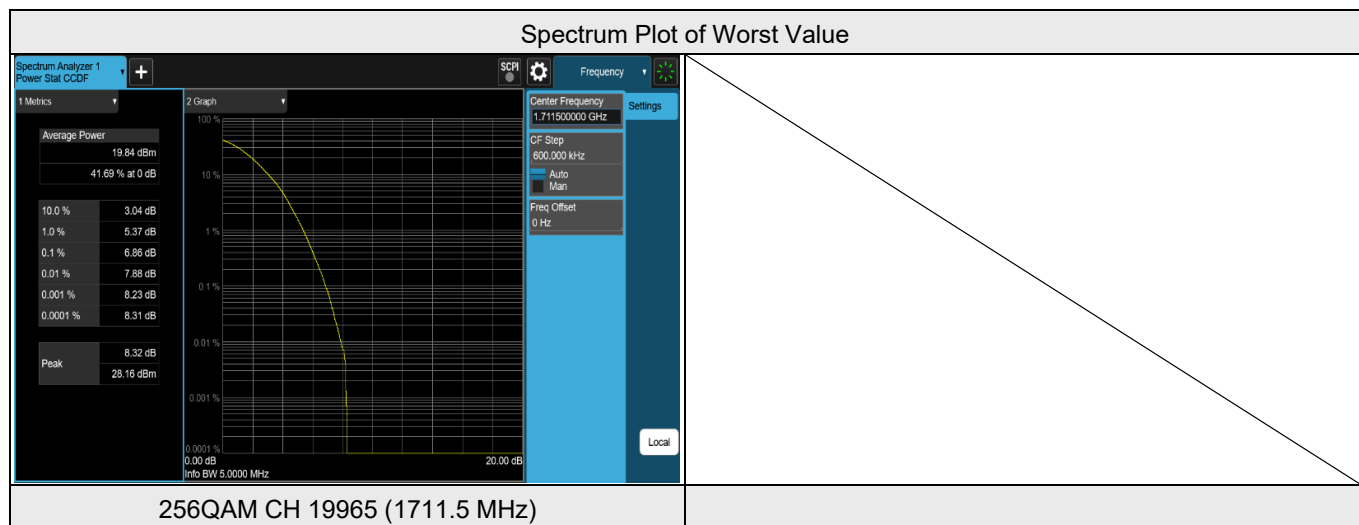
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19957	1710.7	3.72	13	PASS
QPSK	20175	1732.5	3.68	13	PASS
QPSK	20393	1754.3	3.36	13	PASS
16QAM	19957	1710.7	4.51	13	PASS
16QAM	20175	1732.5	4.76	13	PASS
16QAM	20393	1754.3	4.34	13	PASS
64QAM	19957	1710.7	5.46	13	PASS
64QAM	20175	1732.5	5.58	13	PASS
64QAM	20393	1754.3	5.64	13	PASS
256QAM	19957	1710.7	6.73	13	PASS
256QAM	20175	1732.5	6.68	13	PASS
256QAM	20393	1754.3	6.57	13	PASS



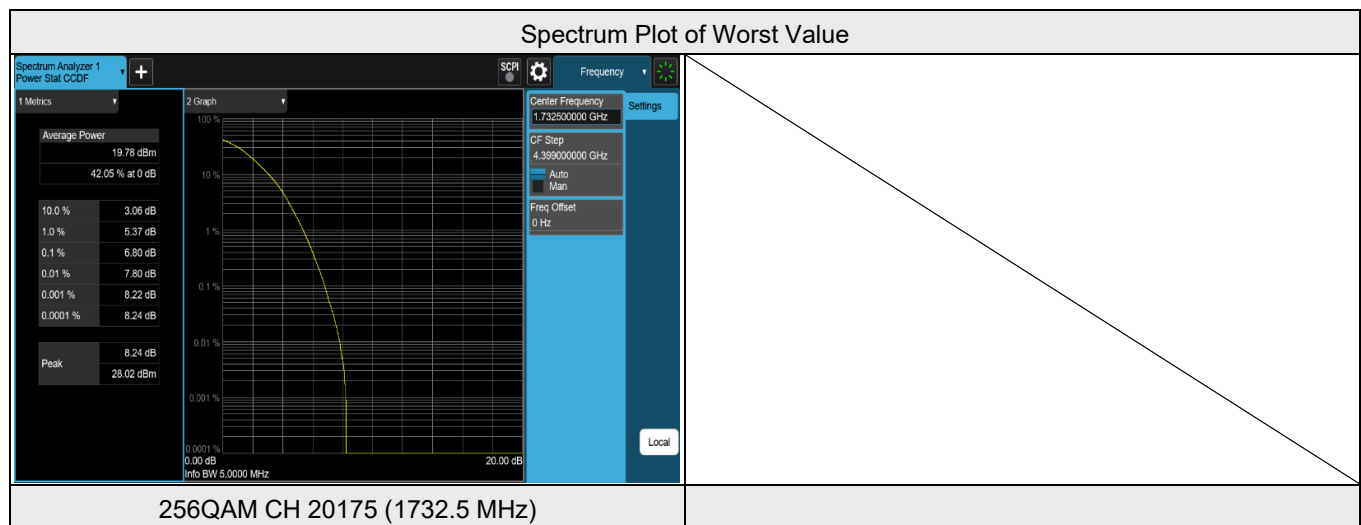
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19965	1711.5	3.86	13	PASS
QPSK	20175	1732.5	3.86	13	PASS
QPSK	20385	1753.5	3.46	13	PASS
16QAM	19965	1711.5	4.67	13	PASS
16QAM	20175	1732.5	4.68	13	PASS
16QAM	20385	1753.5	4.58	13	PASS
64QAM	19965	1711.5	5.39	13	PASS
64QAM	20175	1732.5	5.57	13	PASS
64QAM	20385	1753.5	5.42	13	PASS
256QAM	19965	1711.5	6.86	13	PASS
256QAM	20175	1732.5	6.66	13	PASS
256QAM	20385	1753.5	6.80	13	PASS



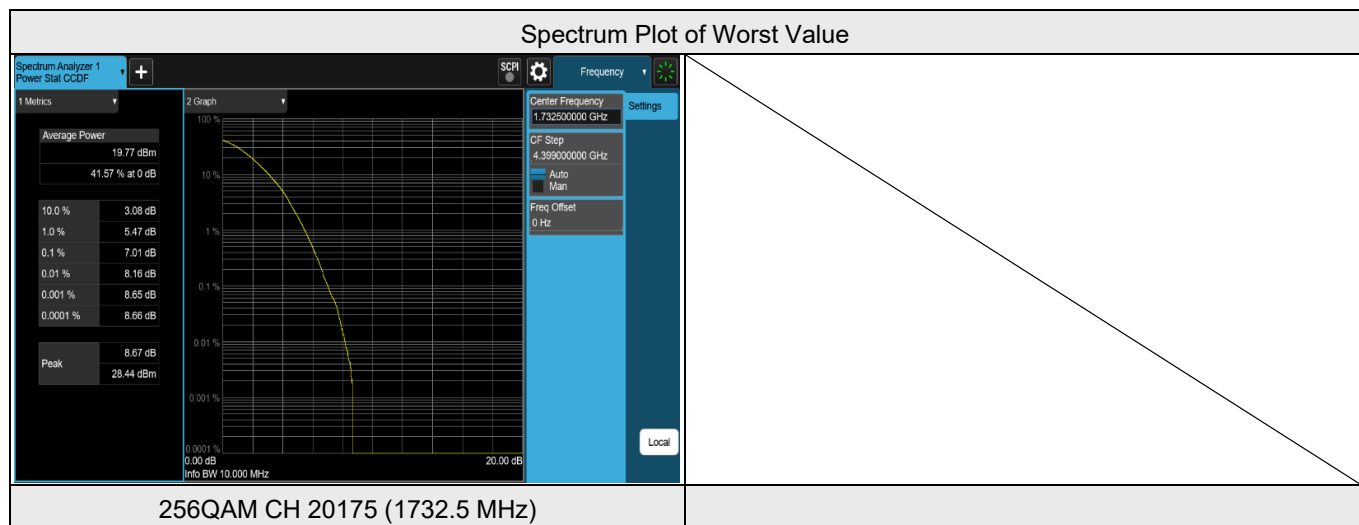
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19975	1712.5	3.72	13	PASS
QPSK	20175	1732.5	3.64	13	PASS
QPSK	20375	1752.5	3.51	13	PASS
16QAM	19975	1712.5	4.61	13	PASS
16QAM	20175	1732.5	4.59	13	PASS
16QAM	20375	1752.5	4.61	13	PASS
64QAM	19975	1712.5	5.46	13	PASS
64QAM	20175	1732.5	5.70	13	PASS
64QAM	20375	1752.5	5.46	13	PASS
256QAM	19975	1712.5	6.72	13	PASS
256QAM	20175	1732.5	6.80	13	PASS
256QAM	20375	1752.5	6.68	13	PASS



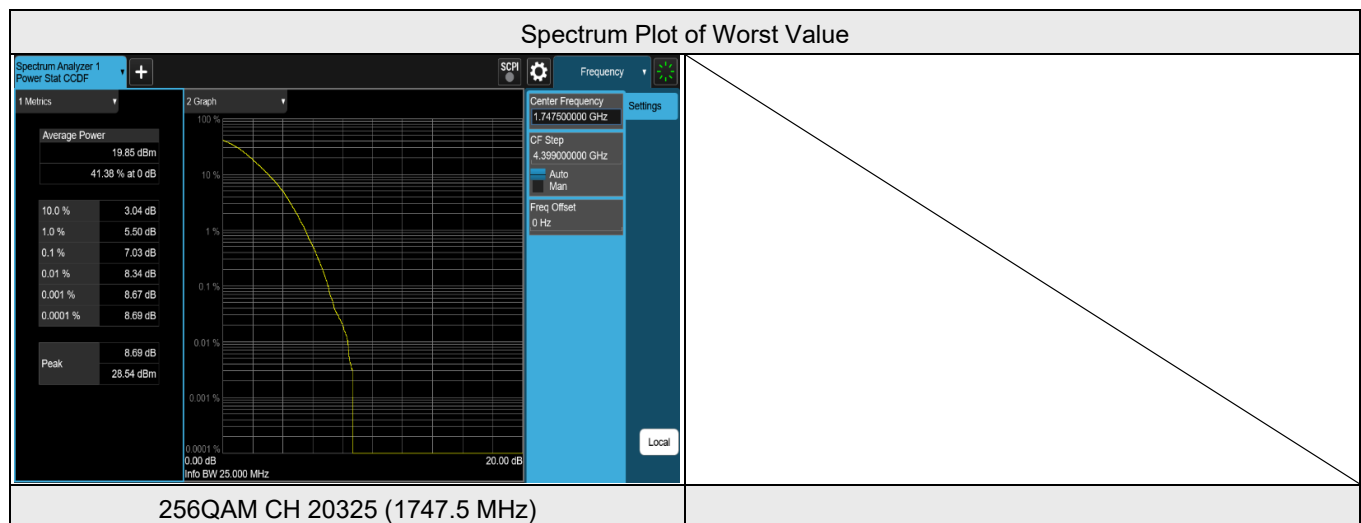
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20000	1715	3.77	13	PASS
QPSK	20175	1732.5	3.92	13	PASS
QPSK	20350	1750	3.56	13	PASS
16QAM	20000	1715	4.60	13	PASS
16QAM	20175	1732.5	4.55	13	PASS
16QAM	20350	1750	4.50	13	PASS
64QAM	20000	1715	5.21	13	PASS
64QAM	20175	1732.5	5.65	13	PASS
64QAM	20350	1750	5.43	13	PASS
256QAM	20000	1715	6.83	13	PASS
256QAM	20175	1732.5	7.01	13	PASS
256QAM	20350	1750	7.00	13	PASS



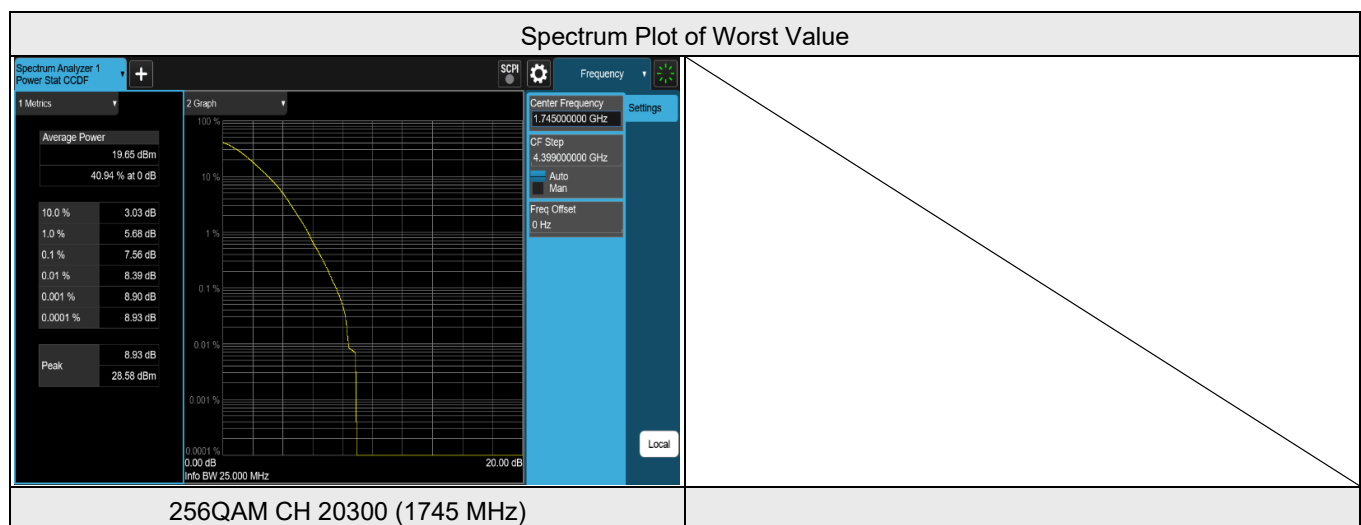
LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20025	1717.5	3.75	13	PASS
QPSK	20175	1732.5	3.80	13	PASS
QPSK	20325	1747.5	3.80	13	PASS
16QAM	20025	1717.5	4.21	13	PASS
16QAM	20175	1732.5	4.59	13	PASS
16QAM	20325	1747.5	4.27	13	PASS
64QAM	20025	1717.5	5.09	13	PASS
64QAM	20175	1732.5	5.44	13	PASS
64QAM	20325	1747.5	5.53	13	PASS
256QAM	20025	1717.5	6.34	13	PASS
256QAM	20175	1732.5	6.63	13	PASS
256QAM	20325	1747.5	7.03	13	PASS



LTE Band 4, Channel Bandwidth: 20 MHz

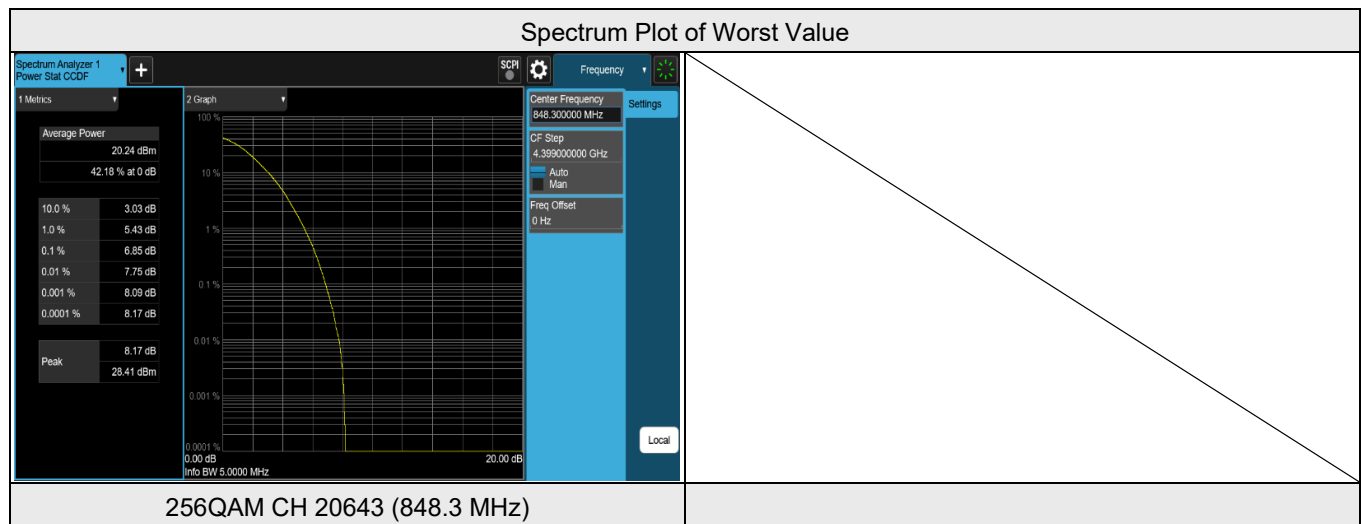
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20050	1720	3.69	13	PASS
QPSK	20175	1732.5	3.57	13	PASS
QPSK	20300	1745	3.95	13	PASS
16QAM	20050	1720	3.82	13	PASS
16QAM	20175	1732.5	4.53	13	PASS
16QAM	20300	1745	4.78	13	PASS
64QAM	20050	1720	4.74	13	PASS
64QAM	20175	1732.5	5.44	13	PASS
64QAM	20300	1745	5.79	13	PASS
256QAM	20050	1720	6.25	13	PASS
256QAM	20175	1732.5	6.67	13	PASS
256QAM	20300	1745	7.56	13	PASS



7.3.8 LTE Band 5

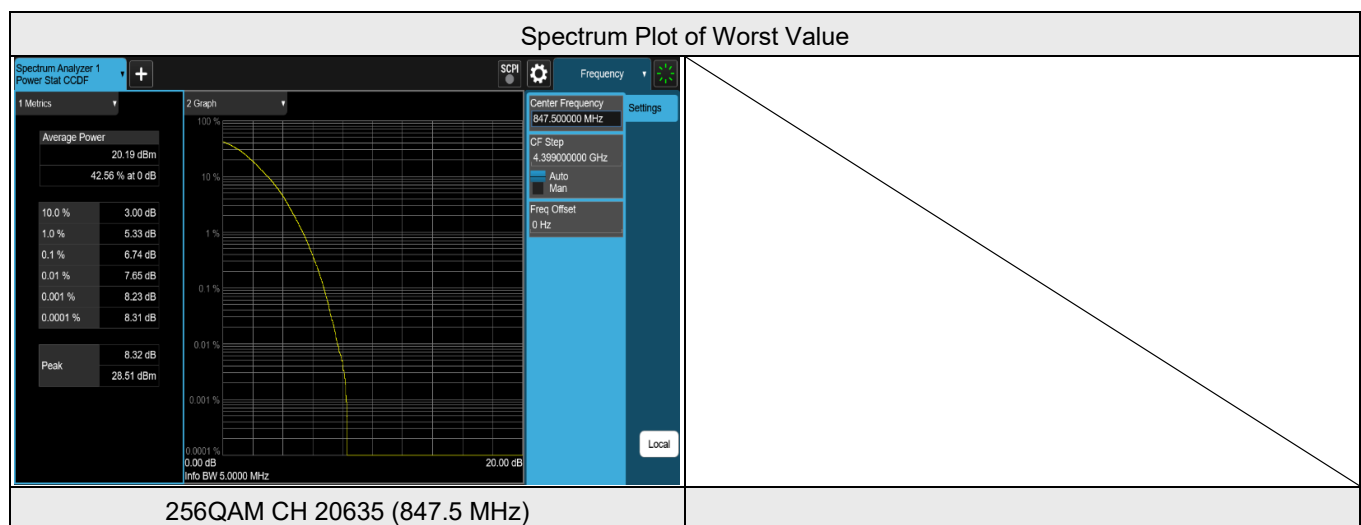
LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20407	824.7	3.20	13	PASS
QPSK	20525	836.5	3.63	13	PASS
QPSK	20643	848.3	3.58	13	PASS
16QAM	20407	824.7	3.90	13	PASS
16QAM	20525	836.5	4.43	13	PASS
16QAM	20643	848.3	4.29	13	PASS
64QAM	20407	824.7	3.99	13	PASS
64QAM	20525	836.5	4.54	13	PASS
64QAM	20643	848.3	4.55	13	PASS
256QAM	20407	824.7	6.57	13	PASS
256QAM	20525	836.5	6.65	13	PASS
256QAM	20643	848.3	6.85	13	PASS



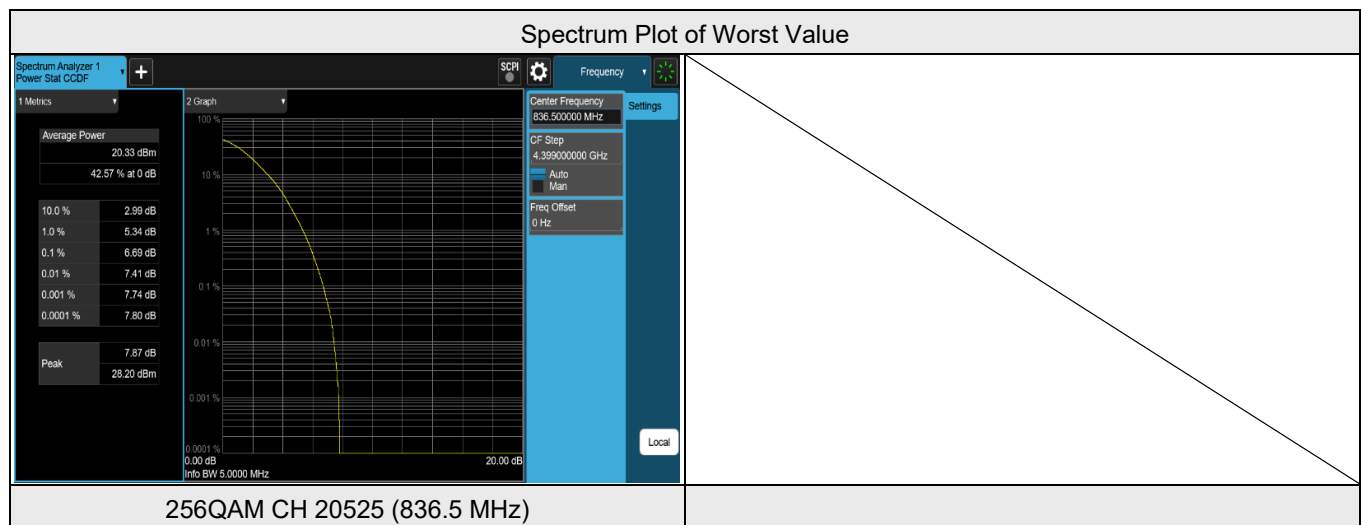
LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20415	825.5	3.15	13	PASS
QPSK	20525	836.5	3.64	13	PASS
QPSK	20635	847.5	3.53	13	PASS
16QAM	20415	825.5	4.02	13	PASS
16QAM	20525	836.5	4.61	13	PASS
16QAM	20635	847.5	4.49	13	PASS
64QAM	20415	825.5	5.00	13	PASS
64QAM	20525	836.5	5.27	13	PASS
64QAM	20635	847.5	5.45	13	PASS
256QAM	20415	825.5	6.49	13	PASS
256QAM	20525	836.5	6.72	13	PASS
256QAM	20635	847.5	6.74	13	PASS



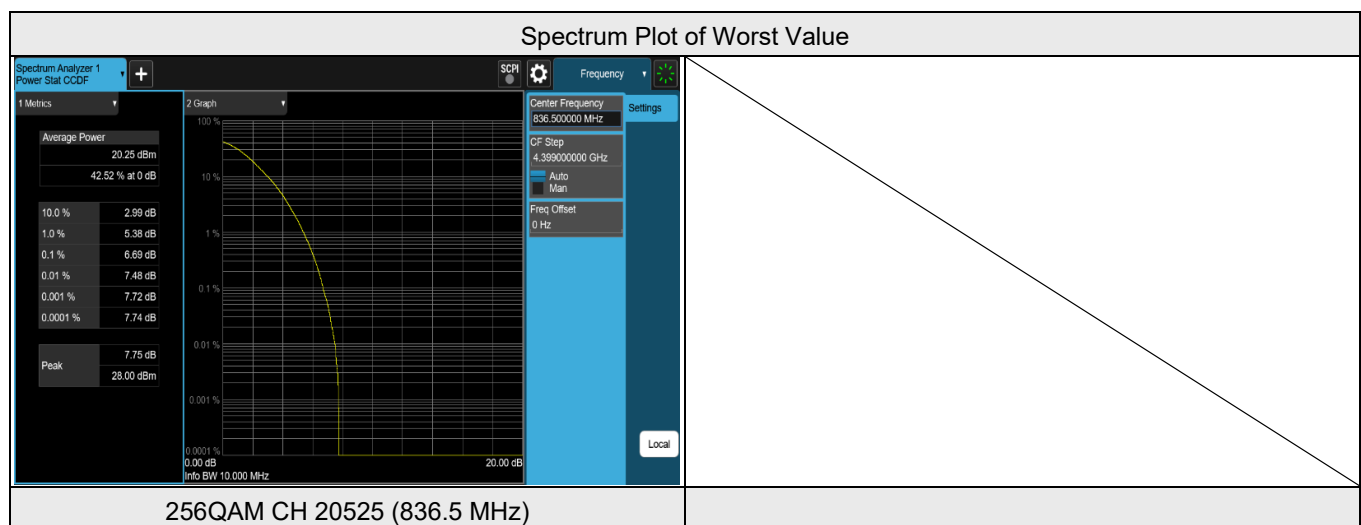
LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20425	826.5	3.39	13	PASS
QPSK	20525	836.5	3.90	13	PASS
QPSK	20625	846.5	3.72	13	PASS
16QAM	20425	826.5	4.06	13	PASS
16QAM	20525	836.5	4.64	13	PASS
16QAM	20625	846.5	4.45	13	PASS
64QAM	20425	826.5	4.99	13	PASS
64QAM	20525	836.5	5.27	13	PASS
64QAM	20625	846.5	5.36	13	PASS
256QAM	20425	826.5	6.58	13	PASS
256QAM	20525	836.5	6.69	13	PASS
256QAM	20625	846.5	6.58	13	PASS



LTE Band 5, Channel Bandwidth: 10 MHz

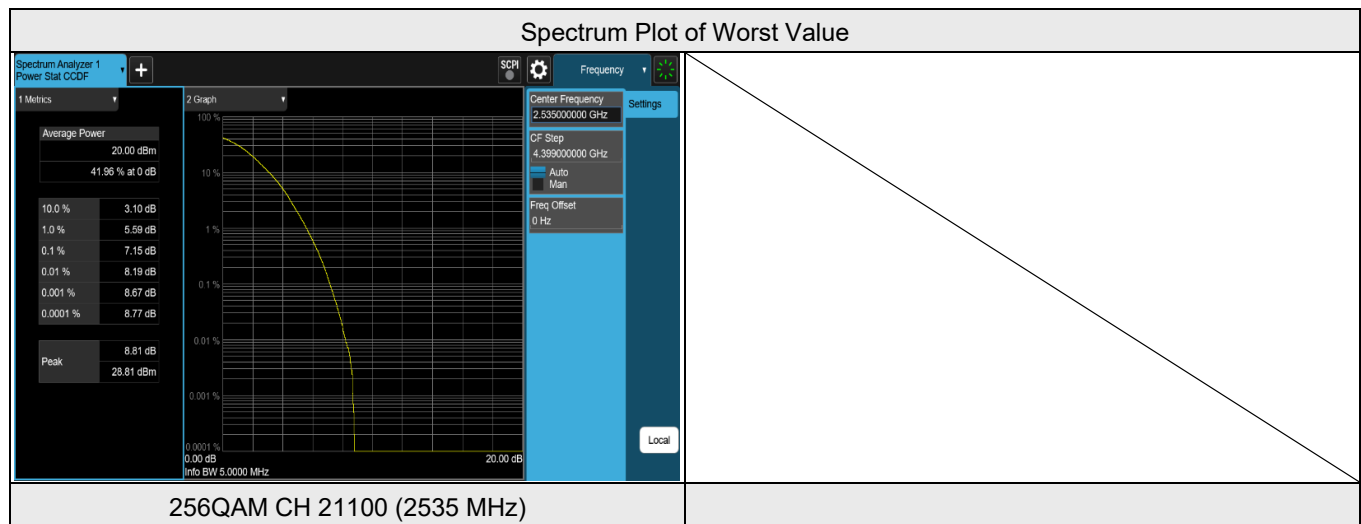
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20450	829	3.39	13	PASS
QPSK	20525	836.5	3.86	13	PASS
QPSK	20600	844	3.85	13	PASS
16QAM	20450	829	4.19	13	PASS
16QAM	20525	836.5	4.72	13	PASS
16QAM	20600	844	4.82	13	PASS
64QAM	20450	829	5.15	13	PASS
64QAM	20525	836.5	5.31	13	PASS
64QAM	20600	844	5.32	13	PASS
256QAM	20450	829	6.50	13	PASS
256QAM	20525	836.5	6.69	13	PASS
256QAM	20600	844	6.59	13	PASS



7.3.9 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20775	2502.5	3.27	13	PASS
QPSK	21100	2535	3.78	13	PASS
QPSK	21425	2567.5	3.72	13	PASS
16QAM	20775	2502.5	3.94	13	PASS
16QAM	21100	2535	4.69	13	PASS
16QAM	21425	2567.5	4.62	13	PASS
64QAM	20775	2502.5	4.91	13	PASS
64QAM	21100	2535	5.56	13	PASS
64QAM	21425	2567.5	5.66	13	PASS
256QAM	20775	2502.5	6.95	13	PASS
256QAM	21100	2535	7.15	13	PASS
256QAM	21425	2567.5	6.83	13	PASS



LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20800	2505	3.22	13	PASS
QPSK	21100	2535	3.90	13	PASS
QPSK	21400	2565	3.93	13	PASS
16QAM	20800	2505	4.05	13	PASS
16QAM	21100	2535	4.82	13	PASS
16QAM	21400	2565	4.71	13	PASS
64QAM	20800	2505	4.90	13	PASS
64QAM	21100	2535	5.45	13	PASS
64QAM	21400	2565	5.54	13	PASS
256QAM	20800	2505	7.00	13	PASS
256QAM	21100	2535	7.15	13	PASS
256QAM	21400	2565	7.17	13	PASS

