

FCC CFR47 PART 22H, 24E, 27 CERTIFICATION TEST REPORT FCC ID: 2AY6A-T1ELITE

Product: Tablet
Trade Mark: CLOUD MOBILE
Model Number: Sunshine T1 ELITE
Family Model: N/A
Report No.: STR220916004006E

Prepared for

Cloud Mobile Holding LLC

1149 S. HILL ST. SUITE H400, LOS ANGELES, CA 90015.

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	Cloud Mobile Holding LLC
Address.....	1149 S. HILL ST. SUITE H400, LOS ANGELES, CA 90015.
Manufacturer's Name	Cloud Mobile Holding LLC
Address.....	1149 S. HILL ST. SUITE H400, LOS ANGELES, CA 90015.
Product name.....	Tablet
Model and/or type reference ..	Sunshine T1 ELITE
Family Model:	N/A
Standards	FCC CFR 47 Part 22H, Part 24E, Part 27
Test procedure	ANSI C63.26:2015
	ANSI/TIA-603-E-2016

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests..... Aug 27. 2021 ~Sep 16, 2021

Date of Issue Sep 27, 2022

Test Result..... **Pass**

Note: All test data of this report are based on the original test report

STR210826001006E, dated by Sep 17. 2021

Testing Engineer :

Allen bin

(Allen Liu)

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Alex

(Alex Li)

Revision History

Report No.	Version	Description	Issued Date
STR210826001006E	Rev.01	Initial issue of report	Sep 17, 2021
STR220916004006E	Rev.02	Updated battery	Sep 27. 2022

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Tablet
Trade Mark	CLOUD MOBILE
Model Name	Sunshine T1 ELITE
Family Model	N/A
Model Difference	N/A
FCC ID:	2AY6A-T1ELITE
Frequency Bands:	U.S. Bands: ☒ LTE FDD Band 2,4,5,7,12,17,41,66,71
Frequency Range:	LTE FDD Band 2 Uplink: 1850MHz-1910MHz, Downlink: 1930MHz-1990MHz; LTE FDD Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz; LTE FDD Band 5 Uplink: 824MHz-849MHz, Downlink: 869MHz-894MHz; LTE-FDD Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz; LTE FDD Band 12 Uplink: 699MHz-716MHz, Downlink: 729MHz-746MHz; LTE FDD Band 17 Uplink: 704MHz-716MHz, Downlink: 734MHz-746MHz; LTE FDD Band 41 Uplink: 2496MHz-2690MHz, LTE FDD Band 66 Uplink: 1710MHz-1780MHz, Downlink: 2110MHz-2200MHz; LTE FDD Band 71 Uplink: 663MHz-698MHz, Downlink: 617MHz-652MHz;
Type of Modulation:	QPSK/16QAM
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.
Antenna:	PIFA Antenna
Antenna gain:	Band 2: -0.18dBi; Band 4: -0.8dBi ; Band 5: (-3.51dBi ; Band 7: -0.3dBi ; Band 12: -3.8dBi ; Band 17: -4.0dBi; Band 41: -0.35dBi; Band 66: -0.8dBi; Band 71: -6.2)dBi;
Power Supply:	DC 3.8V, 4000mAh from battery or DC 5V from Adapter.
Adapter:	Model: JML-0500150NZ-LW Input: 100V-240V 50/60Hz 0.3A Output: 5V---1.5A
Extreme Vol. Limits:	DC 3.4V to DC 4.2V (Nominal DC 3.8V) (Note 1)

HW Version	AL-MT8765-863-V1.0-EP
SW Version	Sunshine_T1_Elite_v1.0
** Note1: The High Voltage DC 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AY6A-T1ELITE** filing to comply with the FCC Part 22H&24E&27

1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, FCC CFR 47 Part 2, Part 22, Part 24, Part 27, ANSI C63.26:2015.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R.China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.26:2015& ANSI C63.4: 2014.

FCC Registration No.:463705

IC Registration No.:9270A-1,

CNAS Registration No.:L5516

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5dB

1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.6 WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of: Band 2, Band 4, Band 5, Band 7, Band 12, Band 17, Band 41, Band 66, Band 71.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations

the worst case was determined to be at X orientation for all LTE bands.

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 CONFIGURATION OF EUT SYSTEM

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Tablet	Sunshine T1 ELITE	FCC ID: 2AY6A-T1ELITE	EUT

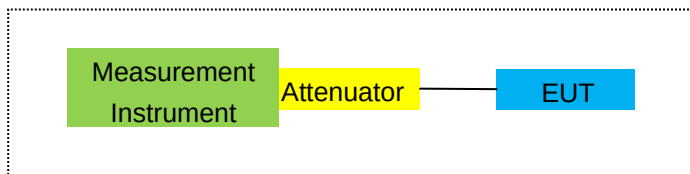
*Note: All the accessories have been used during the test.
the following "EUT" in setup diagram means EUT system.*

2.4 TEST SETUP

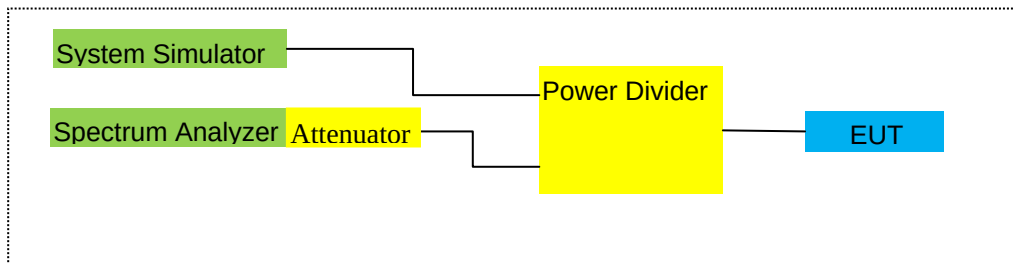
For Radiated Test Cases



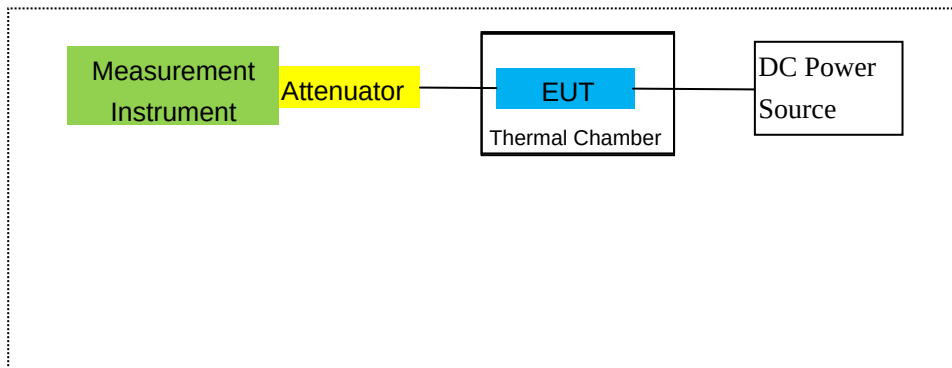
For Conducted Output Power



For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



Note: EUT built-in battery-powered, the battery is fully-charged.

3.TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2020.11.19	2021.11.18	1 year
7	Amplifier	EM	EM-30180	060538	2021.07.01	2022.06.30	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
9	Power Meter	R&S	NRVS	100696	2021.07.01	2022.06.30	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2021.04.27	2022.04.26	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
15	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
16	LISN	EMCO	3816/2	00042990	2021.04.27	2022.04.26	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2021.04.27	2022.04.26	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2021.04.27	2022.04.26	1 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Attenuator	MCE	24-10-34	BN9258	2021.07.01	2022.06.30	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2021.04.27	2022.04.26	1 year
24	test receiver	R&S	ESCI	a0304218	2021.04.27	2022.04.26	1 year
25	Communication Tester	R&S	CMU200	A0304247	2021.07.01	2022.06.30	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2021.04.27	2022.04.26	1 year

27	DC Power Source	N/A	PS-6005D	2017040292 3	2020.05.11	2023.05.10	3 year
28	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year
29	Communication Tester	R&S	CMW500	148500	2021.07.01	2022.06.30	1 year
30	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

4. OUTPUT POWER

4.1 OUTPUT POWER MEASUREMENT

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set. The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".³

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

Test data reference attachment.

5. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- ☐ LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 41
- LTE Band 66
- LTE Band 71

RESULTS

PASS

Test data reference attachment.

6. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53,
FCC: §22.359

LIMITS

FCC: §22.917, §24.238, §27.53

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.

(m)(4) For mobile digital stations, the attenuation 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 as defined in paragraph (m)(6) of this section. 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

(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;

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency

Set a marker to point the corresponding band edge frequency in each test case.

Set resolution bandwidth to at least 1% of emission bandwidth.

MODES TESTED

- ☐ LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 41
- LTE Band 66
- LTE Band 71

RESULTS

Test data reference attachment.

7. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

1. 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.
2. The Band 7/41 emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log (P)$ dB.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- ☐
- ☐ Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

MODES TESTED

- ☐ LTE Band 2/4/5/7/12/17/41/66/71
- ☐

7.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

Test data reference attachment.

8. RADIATED MEASUREMENT

8.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

LIMITS:

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.
27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.
27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.
27.50 (h)(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI/TIA-603-E Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.

KDB 971168 D01 Power Meas License Digital Systems v02r01, "Measurement Guidance for Certification of Licensed Digital Transmitters"

MODES TESTED

- ☐ LTE Band 2/4/5/7/12/17/41/66/71

RESULTS

Pass

8.2 LTE BAND 2

Radiated Power (EIRP) for Band 2									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max.	Polarization Of Max. ERP	
							EIRP		
							Average		
							(mW)		
1.4MHz	Band QPSK	1850.7	-3.24	3.76	28.24	21.24	133.045	Horizontal	Pass
		1880	-3.05	3.91	28.22	21.26	133.660	Horizontal	Pass
		1909.3	-2.96	3.93	28.20	21.31	135.207	Horizontal	Pass
3.0MHz	Band QPSK	1851.5	-3.30	3.77	28.23	21.16	130.617	Horizontal	Pass
		1880	-3.15	3.91	28.24	21.18	131.220	Horizontal	Pass
		1908.5	-3.02	3.94	28.25	21.29	134.586	Horizontal	Pass
5.0MHz	Band QPSK	1852.5	-3.19	3.77	28.31	21.35	136.458	Horizontal	Pass
		1880	-2.81	3.91	28.22	21.50	141.254	Horizontal	Pass
		1907.5	-2.74	3.94	28.20	21.52	141.906	Horizontal	Pass
10.0MHz	Band QPSK	1855	-3.05	3.79	28.33	21.49	140.929	Horizontal	Pass
		1880	-2.75	3.95	28.22	21.52	141.906	Horizontal	Pass
		1905	-2.64	3.97	28.19	21.58	143.880	Horizontal	Pass
15.0MHz	Band QPSK	1857.5	-3.01	3.79	28.34	21.54	142.561	Horizontal	Pass
		1880	-2.80	3.95	28.22	21.47	140.281	Horizontal	Pass
		1902.5	-2.66	3.97	28.18	21.55	142.889	Horizontal	Pass
20.0MHz	Band QPSK	1860	-3.00	3.81	28.35	21.54	142.561	Horizontal	Pass
		1880	-2.67	3.96	28.22	21.59	144.212	Horizontal	Pass
		1900	-2.61	4.00	28.16	21.55	142.889	Horizontal	Pass
1.4MHz	Band QPSK	1850.7	-4.14	3.76	28.24	20.34	108.143	Vertical	Pass
		1880	-3.46	3.91	28.22	20.85	121.619	Vertical	Pass
		1909.3	-3.43	3.93	28.20	20.84	121.339	Vertical	Pass
3.0MHz	Band QPSK	1851.5	-4.33	3.77	28.23	20.13	103.039	Vertical	Pass
		1880	-3.94	3.91	28.24	20.39	109.396	Vertical	Pass
		1908.5	-4.25	3.94	28.25	20.06	101.391	Vertical	Pass
5.0MHz	Band QPSK	1852.5	-4.09	3.77	28.31	20.45	110.917	Vertical	Pass
		1880	-3.71	3.91	28.22	20.60	114.815	Vertical	Pass
		1907.5	-3.51	3.94	28.20	20.75	118.850	Vertical	Pass
10.0MHz	Band QPSK	1855	-3.85	3.79	28.33	20.69	117.220	Vertical	Pass
		1880	-3.88	3.95	28.22	20.39	109.396	Vertical	Pass
		1905	-3.68	3.97	28.19	20.54	113.240	Vertical	Pass

15.0MHz	Band QPSK	1/#Mid	1857.5	-4.15	3.79	28.34	20.40	109.648	Vertical	Pass
			1880	-4.11	3.95	28.22	20.16	103.753	Vertical	Pass
			1902.5	-3.43	3.97	28.18	20.78	119.674	Vertical	Pass
20.0MHz	Band QPSK	1/#Mid	1860	-4.49	3.81	28.35	20.05	101.158	Vertical	Pass
			1880	-3.63	3.96	28.22	20.63	115.611	Vertical	Pass
			1900	-4.09	4.00	28.16	20.07	101.625	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (EIRP) for Band 2									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP	Polarization Of Max. ERP	
							Average		
							(mW)		
1.4MHz Band 16 QAM	1/#Mid	1850.7	-4.36	3.76	28.24	20.12	102.802	Horizontal	Pass
		1880	-3.83	3.91	28.22	20.48	111.686	Horizontal	Pass
		1909.3	-3.76	3.93	28.20	20.51	112.460	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-3.86	3.77	28.23	20.60	114.815	Horizontal	Pass
		1880	-3.94	3.91	28.24	20.39	109.396	Horizontal	Pass
		1908.5	-4.15	3.94	28.25	20.16	103.753	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-3.80	3.77	28.31	20.74	118.577	Horizontal	Pass
		1880	-3.71	3.91	28.22	20.60	114.815	Horizontal	Pass
		1907.5	-3.39	3.94	28.20	20.87	122.180	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-3.85	3.79	28.33	20.69	117.220	Horizontal	Pass
		1880	-3.84	3.95	28.22	20.43	110.408	Horizontal	Pass
		1905	-3.31	3.97	28.19	20.91	123.310	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-3.83	3.79	28.34	20.72	118.032	Horizontal	Pass
		1880	-3.62	3.95	28.22	20.65	116.145	Horizontal	Pass
		1902.5	-3.58	3.97	28.18	20.63	115.611	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	1860	-3.72	3.81	28.35	20.82	120.781	Horizontal	Pass
		1880	-3.42	3.96	28.22	20.84	121.339	Horizontal	Pass
		1900	-3.24	4.00	28.16	20.92	123.595	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1850.7	-5.45	3.76	28.24	19.03	79.983	Vertical	Pass
		1880	-4.64	3.91	28.22	19.67	92.683	Vertical	Pass
		1909.3	-4.31	3.93	28.20	19.96	99.083	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-4.87	3.77	28.23	19.59	90.991	Vertical	Pass
		1880	-4.39	3.91	28.24	19.94	98.628	Vertical	Pass
		1908.5	-4.55	3.94	28.25	19.76	94.624	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-5.11	3.77	28.31	19.43	87.700	Vertical	Pass
		1880	-5.29	3.91	28.22	19.02	79.799	Vertical	Pass
		1907.5	-4.36	3.94	28.20	19.90	97.724	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-5.23	3.79	28.33	19.31	85.310	Vertical	Pass
		1880	-4.50	3.95	28.22	19.77	94.842	Vertical	Pass
		1905	-4.61	3.97	28.19	19.61	91.411	Vertical	Pass
15.0MHz Band 16	1/#Mid	1857.5	-5.28	3.79	28.34	19.27	84.528	Vertical	Pass
		1880	-4.31	3.95	28.22	19.96	99.083	Vertical	Pass

QAM		1902.5	-4.81	3.97	28.18	19.40	87.096	Vertical	Pass
20.0MHz	1/#Mid	1860	-5.42	3.81	28.35	19.12	81.658	Vertical	Pass
Band 16		1880	-5.03	3.96	28.22	19.23	83.753	Vertical	Pass
QAM		1900	-4.31	4.00	28.16	19.85	96.605	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.3 LTE BAND 4

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	Average	Average	Of Max. ERP	
						(dBm)	(mW)		
1.4MHz Band QPSK	1/#Mid	1710.7	-3.11	3.12	27.58	21.35	136.458	Horizontal	Pass
		1732.5	-3.10	3.27	27.61	21.24	133.045	Horizontal	Pass
		1754.3	-3.08	3.29	27.63	21.26	133.660	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.28	3.13	27.61	21.20	131.826	Horizontal	Pass
		1732.5	-3.20	3.27	27.61	21.14	130.017	Horizontal	Pass
		1753.5	-3.12	3.30	27.62	21.20	131.826	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.05	3.13	27.63	21.45	139.637	Horizontal	Pass
		1732.5	-2.95	3.27	27.61	21.39	137.721	Horizontal	Pass
		1752.5	-2.83	3.30	27.60	21.47	140.281	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1715	-2.99	3.15	27.64	21.50	141.254	Horizontal	Pass
		1732.5	-2.76	3.31	27.61	21.54	142.561	Horizontal	Pass
		1750	-2.78	3.33	27.59	21.48	140.605	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-3.00	3.15	27.65	21.50	141.254	Horizontal	Pass
		1732.5	-2.84	3.31	27.61	21.46	139.959	Horizontal	Pass
		1747.5	-2.78	3.33	27.57	21.46	139.959	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1720	-2.94	3.17	27.66	21.55	142.889	Horizontal	Pass
		1732.5	-2.77	3.32	27.61	21.52	141.906	Horizontal	Pass
		1745	-2.71	3.36	27.56	21.49	140.929	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-3.61	3.12	27.58	20.85	121.619	Vertical	Pass
		1732.5	-3.62	3.27	27.61	20.72	118.032	Vertical	Pass
		1754.3	-3.58	3.29	27.63	20.76	119.124	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-4.07	3.13	27.61	20.41	109.901	Vertical	Pass
		1732.5	-4.29	3.27	27.61	20.05	101.158	Vertical	Pass
		1753.5	-4.06	3.30	27.62	20.26	106.170	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.81	3.13	27.63	20.69	117.220	Vertical	Pass
		1732.5	-4.00	3.27	27.61	20.34	108.143	Vertical	Pass
		1752.5	-3.97	3.30	27.60	20.33	107.895	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.55	3.15	27.64	20.94	124.165	Vertical	Pass
		1732.5	-3.47	3.31	27.61	20.83	121.060	Vertical	Pass
		1750	-3.30	3.33	27.59	20.96	124.738	Vertical	Pass

15.0MHz	Band QPSK	1/#Mid	1717.5	-4.04	3.15	27.65	20.46	111.173	Vertical	Pass
			1732.5	-4.10	3.31	27.61	20.20	104.713	Vertical	Pass
			1747.5	-4.05	3.33	27.57	20.19	104.472	Vertical	Pass
20.0MHz	Band QPSK	1/#Mid	1720	-3.79	3.17	27.66	20.70	117.490	Vertical	Pass
			1732.5	-3.93	3.32	27.61	20.36	108.643	Vertical	Pass
			1745	-3.41	3.36	27.56	20.79	119.950	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	Average	Average	Of Max. ERP	
						(dBm)	(mW)		
1.4MHz	1/#Mid	1710.7	-3.92	3.12	27.58	20.54	113.240	Horizontal	Pass
Band 16		1732.5	-3.77	3.27	27.61	20.57	114.025	Horizontal	Pass
QAM		1754.3	-3.77	3.29	27.63	20.57	114.025	Horizontal	Pass
3.0MHz	1/#Mid	1711.5	-3.86	3.13	27.61	20.62	115.345	Horizontal	Pass
Band 16		1732.5	-3.99	3.27	27.61	20.35	108.393	Horizontal	Pass
QAM		1753.5	-4.21	3.30	27.62	20.11	102.565	Horizontal	Pass
5.0MHz	1/#Mid	1712.5	-3.69	3.13	27.63	20.81	120.504	Horizontal	Pass
Band 16		1732.5	-3.65	3.27	27.61	20.69	117.220	Horizontal	Pass
QAM		1752.5	-3.34	3.30	27.60	20.96	124.738	Horizontal	Pass
10.0MHz	1/#Mid	1715	-3.76	3.15	27.64	20.73	118.304	Horizontal	Pass
Band 16		1732.5	-3.95	3.31	27.61	20.35	108.393	Horizontal	Pass
QAM		1750	-3.33	3.33	27.59	20.93	123.880	Horizontal	Pass
15.0MHz	1/#Mid	1717.5	-3.56	3.15	27.65	20.94	124.165	Horizontal	Pass
Band 16		1732.5	-3.62	3.31	27.61	20.68	116.950	Horizontal	Pass
QAM		1747.5	-3.64	3.33	27.57	20.60	114.815	Horizontal	Pass
20.0MHz	1/#Mid	1720	-3.51	3.17	27.66	20.98	125.314	Horizontal	Pass
Band 16		1732.5	-3.52	3.32	27.61	20.77	119.399	Horizontal	Pass
QAM		1745	-3.33	3.36	27.56	20.87	122.180	Horizontal	Pass
1.4MHz	1/#Mid	1710.7	-4.86	3.12	27.58	19.60	91.201	Vertical	Pass
Band 16		1732.5	-5.13	3.27	27.61	19.21	83.368	Vertical	Pass
QAM		1754.3	-4.54	3.29	27.63	19.80	95.499	Vertical	Pass
3.0MHz	1/#Mid	1711.5	-5.43	3.13	27.61	19.05	80.353	Vertical	Pass
Band 16		1732.5	-4.80	3.27	27.61	19.54	89.950	Vertical	Pass
QAM		1753.5	-4.48	3.30	27.62	19.84	96.383	Vertical	Pass
5.0MHz	1/#Mid	1712.5	-4.76	3.13	27.63	19.74	94.189	Vertical	Pass
Band 16		1732.5	-5.01	3.27	27.61	19.33	85.704	Vertical	Pass
QAM		1752.5	-4.61	3.30	27.60	19.69	93.111	Vertical	Pass
10.0MHz	1/#Mid	1715	-5.16	3.15	27.64	19.33	85.704	Vertical	Pass
Band 16		1732.5	-4.82	3.31	27.61	19.48	88.716	Vertical	Pass
QAM		1750	-4.38	3.33	27.59	19.88	97.275	Vertical	Pass
15.0MHz	1/#Mid	1717.5	-4.51	3.15	27.65	19.99	99.770	Vertical	Pass
Band 16		1732.5	-5.10	3.31	27.61	19.20	83.176	Vertical	Pass

QAM		1747.5	-5.09	3.33	27.57	19.15	82.224	Vertical	Pass
20.0MHz	1/#Mid	1720	-5.35	3.17	27.66	19.14	82.035	Vertical	Pass
Band 16		1732.5	-5.23	3.32	27.61	19.06	80.538	Vertical	Pass
QAM		1745	-4.48	3.36	27.56	19.72	93.756	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.4 LTE BAND 5

Radiated Power (ERP) for Band 5										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain	Correction	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)	(dBm)	(dB)		Average	Average		
							(dBm)	(mW)		
1.4MHz Band QPSK	3/#Mid	824.7	6.54	2.01	19.68	2.15	22.06	160.694	Horizontal	Pass
		836.5	6.42	2.01	19.77	2.15	22.03	159.588	Horizontal	Pass
		848.3	6.22	2.02	19.82	2.15	21.87	153.815	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	825.5	6.31	2.01	19.70	2.15	21.85	153.109	Horizontal	Pass
		836.5	6.21	2.01	19.77	2.15	21.82	152.055	Horizontal	Pass
		847.5	6.08	2.02	19.81	2.15	21.72	148.594	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	826.5	6.59	2.01	19.71	2.15	22.14	163.682	Horizontal	Pass
		836.5	6.47	2.01	19.77	2.15	22.08	161.436	Horizontal	Pass
		846.5	6.31	2.02	19.79	2.15	21.93	155.955	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	829	6.61	2.01	19.73	2.15	22.18	165.196	Horizontal	Pass
		836.5	6.56	2.01	19.77	2.15	22.17	164.816	Horizontal	Pass
		844	6.46	2.02	19.78	2.15	22.07	161.065	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	824.7	5.40	2.01	19.68	2.15	20.92	123.595	Vertical	Pass
		836.5	5.40	2.01	19.77	2.15	21.01	126.183	Vertical	Pass
		848.3	5.28	2.02	19.82	2.15	20.93	123.880	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	825.5	4.99	2.01	19.70	2.15	20.53	112.980	Vertical	Pass
		836.5	5.66	2.01	19.77	2.15	21.27	133.968	Vertical	Pass
		847.5	5.56	2.02	19.81	2.15	21.20	131.826	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	826.5	5.74	2.01	19.71	2.15	21.29	134.586	Vertical	Pass
		836.5	4.84	2.01	19.77	2.15	20.45	110.917	Vertical	Pass
		846.5	4.75	2.02	19.79	2.15	20.37	108.893	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	829	5.24	2.01	19.73	2.15	20.81	120.504	Vertical	Pass
		836.5	4.94	2.01	19.77	2.15	20.55	113.501	Vertical	Pass
		844	4.74	2.02	19.78	2.15	20.35	108.393	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (ERP) for Band 5										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain	Correction	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	(dB)	Average	Average	Of Max. ERP	
							(dBm)	(mW)		
1.4MHz	3/#Mid	824.7	5.69	2.01	19.68	2.15	21.21	132.130	Horizontal	Pass
Band 16		836.5	5.62	2.01	19.77	2.15	21.23	132.739	Horizontal	Pass
QAM		848.3	5.46	2.02	19.82	2.15	21.11	129.122	Horizontal	Pass
3.0MHz	1/#Mid	825.5	5.77	2.01	19.70	2.15	21.31	135.207	Horizontal	Pass
Band 16		836.5	5.48	2.01	19.77	2.15	21.09	128.529	Horizontal	Pass
QAM		847.5	4.96	2.02	19.81	2.15	20.60	114.815	Horizontal	Pass
5.0MHz	1/#Mid	826.5	6.09	2.01	19.71	2.15	21.64	145.881	Horizontal	Pass
Band 16		836.5	5.86	2.01	19.77	2.15	21.47	140.281	Horizontal	Pass
QAM		846.5	5.61	2.02	19.79	2.15	21.23	132.739	Horizontal	Pass
10.0MHz	1/#Mid	829	6.09	2.01	19.73	2.15	21.66	146.555	Horizontal	Pass
Band 16		836.5	5.81	2.01	19.77	2.15	21.42	138.676	Horizontal	Pass
QAM		844	5.35	2.02	19.78	2.15	20.96	124.738	Horizontal	Pass
1.4MHz	1/#Mid	824.7	4.32	2.01	19.68	2.15	19.84	96.383	Vertical	Pass
Band 16		836.5	4.35	2.01	19.77	2.15	19.96	99.083	Vertical	Pass
QAM		848.3	4.67	2.02	19.82	2.15	20.32	107.647	Vertical	Pass
3.0MHz	1/#Mid	825.5	5.05	2.01	19.70	2.15	20.59	114.551	Vertical	Pass
Band 16		836.5	4.65	2.01	19.77	2.15	20.26	106.170	Vertical	Pass
QAM		847.5	5.69	2.02	19.81	2.15	21.33	135.831	Vertical	Pass
5.0MHz	1/#Mid	826.5	4.78	2.01	19.71	2.15	20.33	107.895	Vertical	Pass
Band 16		836.5	4.54	2.01	19.77	2.15	20.15	103.514	Vertical	Pass
QAM		846.5	5.42	2.02	19.79	2.15	21.04	127.057	Vertical	Pass
10.0MHz	1/#Mid	829	5.49	2.01	19.73	2.15	21.06	127.644	Vertical	Pass
Band 16		836.5	4.81	2.01	19.77	2.15	20.42	110.154	Vertical	Pass
QAM		844	5.54	2.02	19.78	2.15	21.15	130.317	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.5 LTE BAND 7

Radiated Power (EIRP) for Band 7											
Mode	RB/RB SIZE	Frequency	Result						Conclusion		
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polarization Of Max. ERP			
						(dBm)	(dBm)			Average	Average
										(dBm)	(mW)
5.0MHz	1/#Mid	2502.5	-1.93	4.54	27.75	21.28	134.276	Horizontal	Pass		
Band		2535	-1.76	4.69	27.72	21.27	133.968	Horizontal	Pass		
QPSK		2567.5	-1.69	4.71	27.71	21.31	135.207	Horizontal	Pass		
10.0MHz	1/#Mid	2505	-1.86	4.55	27.76	21.35	136.458	Horizontal	Pass		
Band		2535	-1.67	4.69	27.72	21.36	136.773	Horizontal	Pass		
QPSK		2565	-1.59	4.72	27.70	21.39	137.721	Horizontal	Pass		
15.0MHz	1/#Mid	2507.5	-1.87	4.55	27.77	21.35	136.458	Horizontal	Pass		
Band		2535	-1.73	4.69	27.72	21.30	134.896	Horizontal	Pass		
QPSK		2562.5	-1.63	4.72	27.69	21.34	136.144	Horizontal	Pass		
20.0MHz	1/#Mid	2510	-1.81	4.57	27.78	21.40	138.038	Horizontal	Pass		
Band		2535	-1.63	4.73	27.72	21.36	136.773	Horizontal	Pass		
QPSK		2560	-1.59	4.75	27.68	21.34	136.144	Horizontal	Pass		
5.0MHz	1/#Mid	2502.5	-3.75	4.54	27.75	19.46	88.308	Vertical	Pass		
Band		2535	-3.16	4.69	27.72	19.87	97.051	Vertical	Pass		
QPSK		2567.5	-3.00	4.71	27.71	20.00	100.000	Vertical	Pass		
10.0MHz	1/#Mid	2505	-3.72	4.55	27.76	19.49	88.920	Vertical	Pass		
Band		2535	-3.09	4.69	27.72	19.94	98.628	Vertical	Pass		
QPSK		2565	-3.38	4.72	27.70	19.60	91.201	Vertical	Pass		
15.0MHz	1/#Mid	2507.5	-3.48	4.55	27.77	19.74	94.189	Vertical	Pass		
Band		2535	-2.73	4.69	27.72	20.30	107.152	Vertical	Pass		
QPSK		2562.5	-3.26	4.72	27.69	19.71	93.541	Vertical	Pass		
20.0MHz	1/#Mid	2510	-3.24	4.57	27.78	19.97	99.312	Vertical	Pass		
Band		2535	-3.52	4.73	27.72	19.47	88.512	Vertical	Pass		
QPSK		2560	-3.16	4.75	27.68	19.77	94.842	Vertical	Pass		

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

Radiated Power (EIRP) for Band 7									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)	(dBm)	(dB)	Average	Average		
						(dBm)	(mW)		
5.0MHz Band 16 QAM	1/#Mid	2502.5	-2.62	4.54	27.75	20.59	114.551	Horizontal	Pass
		2535	-2.31	4.69	27.72	20.72	118.032	Horizontal	Pass
		2567.5	-2.39	4.71	27.71	20.61	115.080	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-2.51	4.55	27.76	20.70	117.490	Horizontal	Pass
		2535	-2.52	4.69	27.72	20.51	112.460	Horizontal	Pass
		2565	-2.79	4.72	27.70	20.19	104.472	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-2.69	4.55	27.77	20.53	112.980	Horizontal	Pass
		2535	-2.66	4.69	27.72	20.37	108.893	Horizontal	Pass
		2562.5	-2.27	4.72	27.69	20.70	117.490	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-2.57	4.57	27.78	20.64	115.878	Horizontal	Pass
		2535	-2.24	4.73	27.72	20.75	118.850	Horizontal	Pass
		2560	-2.34	4.75	27.68	20.59	114.551	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	2502.5	-3.66	4.54	27.75	19.55	90.157	Vertical	Pass
		2535	-3.74	4.69	27.72	19.29	84.918	Vertical	Pass
		2567.5	-4.12	4.71	27.71	18.88	77.268	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-3.04	4.55	27.76	20.17	103.992	Vertical	Pass
		2535	-4.54	4.69	27.72	18.49	70.632	Vertical	Pass
		2565	-3.35	4.72	27.70	19.63	91.833	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-3.40	4.55	27.77	19.82	95.940	Vertical	Pass
		2535	-3.92	4.69	27.72	19.11	81.470	Vertical	Pass
		2562.5	-4.09	4.72	27.69	18.88	77.268	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-4.11	4.57	27.78	19.10	81.283	Vertical	Pass
		2535	-3.71	4.73	27.72	19.28	84.723	Vertical	Pass
		2560	-3.39	4.75	27.68	19.54	89.950	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.6 LTE BAND 12

Radiated Power (ERP) for Band 12										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss (dBm)	Antenna Gain (dB)	Correction (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)				Average	Average		
							(dBm)	(mW)		
1.4MHz Band QPSK	1/#Mid	699.7	6.91	1.91	19.21	2.15	22.06	160.694	Vertical	Pass
		707.5	6.83	1.91	19.26	2.15	22.03	159.588	Vertical	Pass
		715.3	6.61	1.93	19.34	2.15	21.87	153.815	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	700.5	6.70	1.91	19.21	2.15	21.85	153.109	Vertical	Pass
		707.5	6.62	1.91	19.26	2.15	21.82	152.055	Vertical	Pass
		714.5	6.46	1.93	19.34	2.15	21.72	148.594	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	701.5	6.97	1.91	19.23	2.15	22.14	163.682	Vertical	Pass
		707.5	6.88	1.91	19.26	2.15	22.08	161.436	Vertical	Pass
		713.5	6.67	1.92	19.33	2.15	21.93	155.955	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	704	6.99	1.91	19.25	2.15	22.18	165.196	Vertical	Pass
		707.5	6.97	1.91	19.26	2.15	22.17	164.816	Vertical	Pass
		711	6.82	1.92	19.32	2.15	22.07	161.065	Vertical	Pass
1.4MHz Band QPSK	1/#Mid	699.7	5.52	1.91	19.21	2.15	20.67	116.681	Horizontal	Pass
		707.5	5.51	1.91	19.26	2.15	20.71	117.761	Horizontal	Pass
		715.3	5.34	1.93	19.34	2.15	20.60	114.815	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	700.5	5.88	1.91	19.21	2.15	21.03	126.765	Horizontal	Pass
		707.5	5.16	1.91	19.26	2.15	20.36	108.643	Horizontal	Pass
		714.5	5.72	1.93	19.34	2.15	20.98	125.314	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	701.5	5.60	1.91	19.23	2.15	20.77	119.399	Horizontal	Pass
		707.5	5.87	1.91	19.26	2.15	21.07	127.938	Horizontal	Pass
		713.5	5.23	1.92	19.33	2.15	20.49	111.944	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	704	5.25	1.91	19.25	2.15	20.44	110.662	Horizontal	Pass
		707.5	5.69	1.91	19.26	2.15	20.89	122.744	Horizontal	Pass
		711	5.98	1.92	19.32	2.15	21.23	132.739	Horizontal	Pass

Radiated Power (ERP) for Band 12										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain	Correction	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	(dB)	Average	Average	Of Max. ERP	
							(dBm)	(mW)		
1.4MHz Band 16 QAM	1/#Mid	699.7	6.91	1.91	19.21	2.15	22.93	196.336	Vertical	Pass
		707.5	6.83	1.91	19.26	2.15	22.90	194.984	Vertical	Pass
		715.3	6.61	1.93	19.34	2.15	22.74	187.932	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	700.5	6.70	1.91	19.21	2.15	22.72	187.068	Vertical	Pass
		707.5	6.62	1.91	19.26	2.15	22.69	185.780	Vertical	Pass
		714.5	6.46	1.93	19.34	2.15	22.59	181.552	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	701.5	6.97	1.91	19.23	2.15	23.01	199.986	Vertical	Pass
		707.5	6.88	1.91	19.26	2.15	22.95	197.242	Vertical	Pass
		713.5	6.67	1.92	19.33	2.15	22.80	190.546	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	704	6.99	1.91	19.25	2.15	23.05	201.837	Vertical	Pass
		707.5	6.97	1.91	19.26	2.15	23.04	201.372	Vertical	Pass
		711	6.82	1.92	19.32	2.15	22.94	196.789	Vertical	Pass
1.4MHz Band 16 QAM	1/#Mid	699.7	6.15	1.91	19.21	2.15	21.94	156.315	Horizontal	Pass
		707.5	5.17	1.91	19.26	2.15	22.08	161.436	Horizontal	Pass
		715.3	5.93	1.93	19.34	2.15	22.15	164.059	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	700.5	5.54	1.91	19.21	2.15	21.32	135.519	Horizontal	Pass
		707.5	6.10	1.91	19.26	2.15	22.10	162.181	Horizontal	Pass
		714.5	5.40	1.93	19.34	2.15	21.93	155.955	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	701.5	5.76	1.91	19.23	2.15	22.15	164.059	Horizontal	Pass
		707.5	5.83	1.91	19.26	2.15	22.18	165.196	Horizontal	Pass
		713.5	5.65	1.92	19.33	2.15	21.51	141.579	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	704	5.61	1.91	19.25	2.15	21.71	148.252	Horizontal	Pass
		707.5	5.57	1.91	19.26	2.15	21.56	143.219	Horizontal	Pass
		711	5.47	1.92	19.32	2.15	22.18	165.196	Horizontal	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.7 LTE BAND 17

Radiated Power (ERP) for Band 17										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain	Correction	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)	(dBm)	(dB)		Average	Average		
							(dBm)	(mW)		
5.0MHz Band QPSK	1/#Mid	706.5	7.37	1.91	19.23	2.15	22.54	179.473	Vertical	Pass
		710	7.23	1.91	19.26	2.15	22.43	174.985	Vertical	Pass
		713.5	7.13	1.92	19.33	2.15	22.39	173.380	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	709	7.38	1.91	19.25	2.15	22.57	180.717	Vertical	Pass
		710	7.33	1.91	19.26	2.15	22.53	179.061	Vertical	Pass
		711	7.29	1.92	19.32	2.15	22.54	179.473	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	706.5	5.55	1.91	19.23	2.15	20.72	118.032	Horizontal	Pass
		710	5.30	1.91	19.26	2.15	20.50	112.202	Horizontal	Pass
		713.5	6.95	1.92	19.33	2.15	22.21	166.341	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	709	6.26	1.91	19.25	2.15	21.45	139.637	Horizontal	Pass
		710	6.55	1.91	19.26	2.15	21.75	149.624	Horizontal	Pass
		711	5.43	1.92	19.32	2.15	20.68	116.950	Horizontal	Pass

Radiated Power (ERP) for Band 17										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss (dBm)	Antenna Gain (dB)	Correction (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)				Average	Average		
							(dBm)	(mW)		
5.0MHz	1/#Mid	706.5	6.72	1.91	19.23	2.15	21.89	154.525	Vertical	Pass
Band 16		710	6.63	1.91	19.26	2.15	21.83	152.405	Vertical	Pass
QAM		713.5	6.43	1.92	19.33	2.15	21.69	147.571	Vertical	Pass
10.0MHz	1/#Mid	709	6.26	1.91	19.25	2.15	21.45	139.637	Vertical	Pass
Band 16		710	6.79	1.91	19.26	2.15	21.99	158.125	Vertical	Pass
QAM		711	6.52	1.92	19.32	2.15	21.77	150.314	Vertical	Pass
5.0MHz	1/#Mid	706.5	6.09	1.91	19.23	2.15	21.26	133.660	Horizontal	Pass
Band 16		710	5.46	1.91	19.26	2.15	20.66	116.413	Horizontal	Pass
QAM		713.5	5.20	1.92	19.33	2.15	20.46	111.173	Horizontal	Pass
10.0MHz	1/#Mid	709	5.69	1.91	19.25	2.15	20.88	122.462	Horizontal	Pass
Band 16		710	5.42	1.91	19.26	2.15	20.62	115.345	Horizontal	Pass
QAM		711	5.68	1.92	19.32	2.15	20.93	123.880	Horizontal	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.8 LTE BAND 41

Radiated Power (EIRP) for Band 41									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
						Average	Average		
						(dBm)	(mW)		
5.0MHz Band QPSK	1/#Mid	2498.5	-1.14	4.54	27.75	22.07	161.065	Horizontal	Pass
		2593	-0.99	4.69	27.72	22.04	159.956	Horizontal	Pass
		2687.5	-0.87	4.71	27.71	22.13	163.305	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	2501	-1.22	4.55	27.76	21.99	158.125	Horizontal	Pass
		2593	-1.08	4.69	27.72	21.95	156.675	Horizontal	Pass
		2685	-1.07	4.72	27.70	21.91	155.239	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	2503.5	-1.05	4.55	27.77	22.17	164.816	Horizontal	Pass
		2593	-0.77	4.69	27.72	22.26	168.267	Horizontal	Pass
		2682.5	-0.82	4.72	27.69	22.15	164.059	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	2506	-0.93	4.57	27.78	22.28	169.044	Horizontal	Pass
		2593	-0.71	4.73	27.72	22.28	169.044	Horizontal	Pass
		2680	-0.71	4.75	27.68	22.22	166.725	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	2498.5	-0.94	4.54	27.75	22.27	168.655	Vertical	Pass
		2593	-0.85	4.69	27.72	22.18	165.196	Vertical	Pass
		2687.5	-0.83	4.71	27.71	22.17	164.816	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	2501	-0.92	4.55	27.76	21.11	129.122	Vertical	Pass
		2593	-0.76	4.69	27.72	22.27	168.655	Vertical	Pass
		2685	-0.83	4.72	27.70	22.15	164.059	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	2503.5	-2.04	4.55	27.77	21.18	131.220	Vertical	Pass
		2593	-2.06	4.69	27.72	20.97	125.026	Vertical	Pass
		2682.5	-1.65	4.72	27.69	21.32	135.519	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	2506	-1.91	4.57	27.78	21.30	134.896	Vertical	Pass
		2593	-1.79	4.73	27.72	21.20	131.826	Vertical	Pass
		2680	-1.82	4.75	27.68	22.29	169.434	Vertical	Pass

Radiated Power (EIRP) for Band 41									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
						Average	Average		
						(dBm)	(mW)		
5.0MHz Band 16 QAM	1/#Mid	2498.5	-1.14	4.54	27.75	22.63	183.231	Horizontal	Pass
		2593	-0.99	4.69	27.72	22.60	181.970	Horizontal	Pass
		2687.5	-0.87	4.71	27.71	22.69	185.780	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	2501	-1.22	4.55	27.76	22.55	179.887	Horizontal	Pass
		2593	-1.08	4.69	27.72	22.51	178.238	Horizontal	Pass
		2685	-1.07	4.72	27.70	22.47	176.604	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	2503.5	-1.05	4.55	27.77	22.73	187.499	Horizontal	Pass
		2593	-0.77	4.69	27.72	22.82	191.426	Horizontal	Pass
		2682.5	-0.82	4.72	27.69	22.71	186.638	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	2506	-0.93	4.57	27.78	22.84	192.309	Horizontal	Pass
		2593	-0.71	4.73	27.72	22.84	192.309	Horizontal	Pass
		2680	-0.71	4.75	27.68	22.78	189.671	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	2498.5	-0.94	4.54	27.75	22.83	191.867	Vertical	Pass
		2593	-0.85	4.69	27.72	22.74	187.932	Vertical	Pass
		2687.5	-0.83	4.71	27.71	22.73	187.499	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	2501	-0.92	4.55	27.76	22.85	192.752	Vertical	Pass
		2593	-0.76	4.69	27.72	22.83	191.867	Vertical	Pass
		2685	-0.83	4.72	27.70	22.71	186.638	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	2503.5	-2.30	4.55	27.77	21.75	149.624	Vertical	Pass
		2593	-2.20	4.69	27.72	22.05	160.325	Vertical	Pass
		2682.5	-2.23	4.72	27.69	21.49	140.929	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	2506	-2.48	4.57	27.78	21.33	135.831	Vertical	Pass
		2593	-1.77	4.73	27.72	21.33	135.831	Vertical	Pass
		2680	-1.68	4.75	27.68	22.92	195.884	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.9 LTE BAND 66

Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
						Average (dBm)	Average		
							(mW)		
1.4MHz	1/#Mid	1710.7	-2.41	3.76	28.24	22.94	196.789	Horizontal	Pass
Band		1745	-2.27	3.91	28.22	22.91	195.434	Horizontal	Pass
QPSK		1779.3	-2.14	3.93	28.2	23.00	199.526	Horizontal	Pass
3.0MHz	1/#Mid	1711.5	-2.47	3.77	28.23	22.86	193.197	Horizontal	Pass
Band		1745	-2.38	3.91	28.24	22.82	191.426	Horizontal	Pass
QPSK		1778.5	-2.40	3.94	28.25	22.78	189.671	Horizontal	Pass
5.0MHz	1/#Mid	1712.5	-2.37	3.77	28.31	23.04	201.372	Horizontal	Pass
Band		1745	-2.05	3.91	28.22	23.13	205.589	Horizontal	Pass
QPSK		1777.5	-2.11	3.94	28.2	23.02	200.447	Horizontal	Pass
10.0MHz	1/#Mid	1715	-2.26	3.79	28.33	23.15	206.538	Horizontal	Pass
Band		1745	-1.99	3.95	28.22	23.15	206.538	Horizontal	Pass
QPSK		1775	-2.00	3.97	28.19	23.09	203.704	Horizontal	Pass
15.0MHz	1/#Mid	1717.5	-2.28	3.79	28.34	23.14	206.063	Horizontal	Pass
Band		1745	-2.09	3.95	28.22	23.05	201.837	Horizontal	Pass
QPSK		1772.5	-2.04	3.97	28.18	23.04	201.372	Horizontal	Pass
20.0MHz	1/#Mid	1720	-2.25	3.81	28.35	23.16	207.014	Horizontal	Pass
Band		1745	-1.99	3.96	28.22	23.14	206.063	Horizontal	Pass
QPSK		1770	-2.01	4	28.16	23.02	200.447	Horizontal	Pass
1.4MHz	1/#Mid	1710.7	-3.73	3.76	28.24	22.25	167.880	Vertical	Pass
Band		1745	-3.25	3.91	28.22	22.00	158.489	Vertical	Pass
QPSK		1779.3	-3.42	3.93	28.2	22.31	170.216	Vertical	Pass
3.0MHz	1/#Mid	1711.5	-3.23	3.77	28.23	22.11	162.555	Vertical	Pass
Band		1745	-3.74	3.91	28.24	22.30	169.824	Vertical	Pass
QPSK		1778.5	-3.15	3.94	28.25	21.67	146.893	Vertical	Pass
5.0MHz	1/#Mid	1712.5	-3.47	3.77	28.31	21.97	157.398	Vertical	Pass
Band		1745	-3.07	3.91	28.22	22.19	165.577	Vertical	Pass
QPSK		1777.5	-3.09	3.94	28.2	22.08	161.436	Vertical	Pass
10.0MHz	1/#Mid	1715	-3.06	3.79	28.34	21.43	138.995	Vertical	Pass
Band		1745	-2.94	3.95	28.22	21.72	148.594	Vertical	Pass

QPSK		1775	-3.51	3.97	28.18	21.57	143.549	Vertical	Pass
15.0MHz	1/#Mid	1717.5	-3.97	3.81	28.35	22.21	166.341	Vertical	Pass
Band		1745	-3.38	3.96	28.22	21.71	148.252	Vertical	Pass
QPSK		1772.5	-3.13	4	28.16	22.29	169.434	Vertical	Pass
20.0MHz	1/#Mid	1720	-3.83	3.79	28.34	22.41	174.181	Vertical	Pass
Band		1745	-2.73	3.95	28.22	21.60	144.544	Vertical	Pass
QPSK		1770	-2.79	3.97	28.18	22.94	196.789	Vertical	Pass

Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/##Mid	1710.7	-3.24	3.76	28.24	21.95	156.675	Horizontal	Pass
		1745	-2.85	3.91	28.22	22.17	164.816	Horizontal	Pass
		1779.3	-3.03	3.93	28.2	21.95	156.675	Horizontal	Pass
3.0MHz Band 16 QAM	1/##Mid	1711.5	-3.63	3.77	28.23	21.54	142.561	Horizontal	Pass
		1745	-2.88	3.91	28.24	22.16	164.437	Horizontal	Pass
		1778.5	-3.17	3.94	28.25	21.85	153.109	Horizontal	Pass
5.0MHz Band 16 QAM	1/##Mid	1712.5	-3.05	3.77	28.31	22.20	165.959	Horizontal	Pass
		1745	-3.11	3.91	28.22	21.91	155.239	Horizontal	Pass
		1777.5	-2.78	3.94	28.2	22.19	165.577	Horizontal	Pass
10.0MHz Band 16 QAM	1/##Mid	1715	-3.10	3.79	28.33	22.15	164.059	Horizontal	Pass
		1745	-2.76	3.95	28.22	22.22	166.725	Horizontal	Pass
		1775	-3.08	3.97	28.19	21.85	153.109	Horizontal	Pass
15.0MHz Band 16 QAM	1/##Mid	1717.5	-3.09	3.79	28.34	22.17	164.816	Horizontal	Pass
		1745	-2.91	3.95	28.22	22.07	161.065	Horizontal	Pass
		1772.5	-2.70	3.97	28.18	22.22	166.725	Horizontal	Pass
20.0MHz Band 16 QAM	1/##Mid	1720	-2.92	3.81	28.35	22.33	171.002	Horizontal	Pass
		1745	-2.70	3.96	28.22	22.27	168.655	Horizontal	Pass
		1770	-2.64	4	28.16	22.23	167.109	Horizontal	Pass
1.4MHz Band 16 QAM	1/##Mid	1710.7	-3.15	3.76	28.24	22.24	167.494	Vertical	Pass
		1745	-2.97	3.91	28.22	20.29	106.905	Vertical	Pass
		1779.3	-3.10	3.93	28.2	21.47	140.281	Vertical	Pass
3.0MHz Band 16 QAM	1/##Mid	1711.5	-4.54	3.77	28.23	21.44	139.316	Vertical	Pass
		1745	-4.02	3.91	28.24	20.48	111.686	Vertical	Pass
		1778.5	-4.19	3.94	28.25	21.19	131.522	Vertical	Pass
5.0MHz Band 16 QAM	1/##Mid	1712.5	-4.72	3.77	28.31	20.59	114.551	Vertical	Pass
		1745	-3.63	3.91	28.22	21.60	144.544	Vertical	Pass
		1777.5	-4.00	3.94	28.2	21.29	134.586	Vertical	Pass
10.0MHz Band 16 QAM	1/##Mid	1715	-4.27	3.79	28.34	21.55	142.889	Vertical	Pass
		1745	-3.03	3.95	28.22	21.16	130.617	Vertical	Pass
		1775	-3.46	3.97	28.18	21.37	137.088	Vertical	Pass
15.0MHz Band 16	1/##Mid	1717.5	-4.11	3.81	28.35	22.06	160.694	Vertical	Pass
		1745	-3.36	3.96	28.22	22.15	164.059	Vertical	Pass

QAM		1772.5	-4.58	4	28.16	21.54	142.561	Vertical	Pass
20.0MHz	1/#Mid	1720	-3.20	3.79	28.34	22.02	159.221	Vertical	Pass
Band 16		1745	-3.03	3.95	28.22	20.60	114.815	Vertical	Pass
QAM		1770	-3.36	3.97	28.18	21.51	141.579	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.10 LTE BAND 71

Radiated Power (ERP) for Band 71										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain		Max. EIRP	Max. EIRP	Polarization Of Max. ERP	
			(dBm)	(dBm)	(dB)		Average	Average		
						(dB)	(dBm)	(mW)		
5.0MHz Band QPSK	25/0	665.5	7.54	2.01	19.68	2.15	23.48	222.84	Horizontal	Pass
		680.5	7.42	2.01	19.77	2.15	23.45	221.31	Horizontal	Pass
		695.5	7.22	2.02	19.82	2.15	23.29	213.30	Horizontal	Pass
10.0MHz Band QPSK	50/0	668	7.31	2.01	19.70	2.15	23.27	212.32	Horizontal	Pass
		680.5	7.21	2.01	19.77	2.15	23.24	210.86	Horizontal	Pass
		693	7.08	2.02	19.81	2.15	23.14	206.06	Horizontal	Pass
15.0MHz Band QPSK	75/0	670.5	7.59	2.01	19.71	2.15	23.56	226.99	Horizontal	Pass
		680.5	7.47	2.01	19.77	2.15	23.50	223.87	Horizontal	Pass
		690.5	7.31	2.02	19.79	2.15	23.35	216.27	Horizontal	Pass
20.0MHz Band QPSK	100/0	673	7.61	2.01	19.73	2.15	23.60	229.09	Horizontal	Pass
		683	7.56	2.01	19.77	2.15	23.59	228.56	Horizontal	Pass
		688	7.46	2.02	19.78	2.15	23.49	223.36	Horizontal	Pass
5.0MHz Band QPSK	25/0	665.5	6.53	2.01	19.68	2.15	22.13	163.31	Vertical	Pass
		680.5	6.43	2.01	19.77	2.15	22.11	162.55	Vertical	Pass
		695.5	6.14	2.02	19.82	2.15	22.16	164.44	Vertical	Pass
15.0MHz Band QPSK	50/0	668	6.72	2.01	19.70	2.15	22.20	165.96	Vertical	Pass
		680.5	6.13	2.01	19.77	2.15	22.08	161.44	Vertical	Pass
		693	6.27	2.02	19.81	2.15	22.45	175.79	Vertical	Pass
15.0MHz Band QPSK	75/0	670.5	5.90	2.01	19.71	2.15	22.07	161.06	Vertical	Pass
		680.5	6.74	2.01	19.77	2.15	22.33	171.00	Vertical	Pass
		690.5	6.00	2.02	19.79	2.15	22.07	161.06	Vertical	Pass
20MHz Band QPSK	100/0	673	6.48	2.01	19.73	2.15	21.99	158.12	Vertical	Pass
		683	6.28	2.01	19.77	2.15	22.27	168.66	Vertical	Pass
		688	5.97	2.02	19.78	2.15	22.43	174.98	Vertical	Pass

Radiated Power (ERP) for Band 71										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level	Cable Loss	Antenna Gain	Correction	Max. EIRP	Max. EIRP	Polarization	
			(dBm)	(dBm)	(dB)	(dB)	Average	Average	Of Max. ERP	
							(dBm)	(mW)		
5.0MHz Band 16 QAM	25/0	665.5	7.54	2.01	19.68	2.15	22.97	198.15	Horizontal	Pass
		680.5	7.42	2.01	19.77	2.15	22.94	196.79	Horizontal	Pass
		695.5	7.22	2.02	19.82	2.15	22.78	189.67	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	668	7.31	2.01	19.70	2.15	22.76	188.80	Horizontal	Pass
		680.5	7.21	2.01	19.77	2.15	22.73	187.50	Horizontal	Pass
		693	7.08	2.02	19.81	2.15	22.63	183.23	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	670.5	7.59	2.01	19.71	2.15	23.05	201.84	Horizontal	Pass
		680.5	7.47	2.01	19.77	2.15	22.99	199.07	Horizontal	Pass
		690.5	7.31	2.02	19.79	2.15	22.84	192.31	Horizontal	Pass
20.0MHz Band 16 QAM	100/0	673	7.61	2.01	19.73	2.15	23.09	203.70	Horizontal	Pass
		683	7.56	2.01	19.77	2.15	23.08	203.24	Horizontal	Pass
		688	7.46	2.02	19.78	2.15	22.98	198.61	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	665.5	6.37	2.01	19.68	2.15	21.68	147.23	Vertical	Pass
		680.5	6.04	2.01	19.77	2.15	21.61	144.88	Vertical	Pass
		695.5	5.92	2.02	19.82	2.15	22.14	163.68	Vertical	Pass
10.0MHz Band 16 QAM	50/0	668	6.34	2.01	19.70	2.15	21.95	156.68	Vertical	Pass
		680.5	6.48	2.01	19.77	2.15	21.81	151.71	Vertical	Pass
		693	6.41	2.02	19.81	2.15	21.57	143.55	Vertical	Pass
15.0MHz Band 16 QAM	75/0	670.5	5.84	2.01	19.71	2.15	21.38	137.40	Vertical	Pass
		680.5	6.59	2.01	19.77	2.15	21.81	151.71	Vertical	Pass
		690.5	6.50	2.02	19.79	2.15	21.49	140.93	Vertical	Pass
20.0MHz Band 16 QAM	100/0	673	5.99	2.01	19.73	2.15	22.09	161.81	Vertical	Pass
		683	6.30	2.01	19.77	2.15	22.16	164.44	Vertical	Pass
		688	6.20	2.02	19.78	2.15	21.87	153.82	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

9. SPURIOUS RADIATION EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. 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.

§27.53 (g) For operations in 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.

§27.53 (h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

- a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}(p)$, dB; and
- b. for mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}(p)$, dB at the channel edges and $55 + 10 \log_{10}(p)$ at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts.

MODES TESTED

- ☐ LTE Band 2
- ☐ LTE Band 4
- ☐ LTE Band 5
- ☐ LTE Band 7
- ☐ LTE Band 12
- ☐ LTE Band 17
- ☐ LTE Band 41
- ☐ LTE Band 66
- ☐ LTE Band 71

RESULTS

PASS

9.1 LTE BAND 2

QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1850.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3701.4	-46.30	4.04	33.51	-16.83	-13	-3.83	Horizontal
3701.4	-52.92	4.04	33.51	-23.45	-13	-10.45	Vertical
5552.1	-49.43	5.24	35.84	-18.83	-13	-5.83	Vertical
5552.1	-50.73	5.24	35.84	-20.13	-13	-7.13	Horizontal
181.0	-42.30	1.43	16.02	-27.71	-13	-14.71	Vertical
441.4	-40.22	1.30	17.99	-23.53	-13	-10.53	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-44.79	4.04	33.56	-15.27	-13	-2.27	Horizontal
3760.0	-50.32	4.04	33.56	-20.80	-13	-7.80	Vertical
5640.0	-51.15	5.24	35.91	-20.48	-13	-7.48	Vertical
5640.0	-49.59	5.24	35.91	-18.92	-13	-5.92	Horizontal
198.8	-34.03	1.62	16.97	-18.68	-13	-5.68	Vertical
402.2	-40.03	1.74	15.98	-25.80	-13	-12.80	Horizontal
Test Results for High Channel 1909.3MHz							
3818.6	-46.53	4.04	34.00	-16.57	-13	-3.57	Horizontal
3818.6	-50.18	4.04	34.00	-20.22	-13	-7.22	Vertical
5727.9	-51.17	5.24	36.04	-20.37	-13	-7.37	Vertical
5727.9	-49.48	5.24	36.04	-18.68	-13	-5.68	Horizontal
207.3	-44.37	1.42	17.29	-28.50	-13	-15.50	Vertical
374.9	-39.77	1.50	17.90	-23.36	-13	-10.36	Horizontal

QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 1860MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3720.0	-45.32	4.07	33.54	-15.85	-13	-2.85	Horizontal
3720.0	-49.26	4.07	33.54	-19.79	-13	-6.79	Vertical
5580.0	-44.88	5.28	35.86	-14.30	-13	-1.30	Vertical
5580.0	-50.51	5.28	35.86	-19.93	-13	-6.93	Horizontal
209.9	-34.60	1.58	16.89	-19.28	-13	-6.28	Vertical
316.5	-42.92	1.76	17.26	-27.42	-13	-14.42	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-48.55	4.04	33.56	-19.03	-13	-6.03	Horizontal
3760.0	-45.83	4.04	33.56	-16.31	-13	-3.31	Vertical
5640.0	-49.81	5.24	35.91	-19.14	-13	-6.14	Vertical
5640.0	-49.44	5.24	35.91	-18.77	-13	-5.77	Horizontal
208.6	-34.20	1.46	16.27	-19.39	-13	-6.39	Vertical
257.4	-43.88	1.59	15.15	-30.32	-13	-17.32	Horizontal
Test Results for High Channel 1900MHz							
3800.0	-48.84	4.04	34.00	-18.88	-13	-5.88	Horizontal
3800.0	-53.22	4.04	34.00	-23.26	-13	-10.26	Vertical
5700.0	-53.96	5.24	36.04	-23.16	-13	-10.16	Vertical
5700.0	-50.55	5.24	36.04	-19.75	-13	-6.75	Horizontal
176.3	-43.37	1.36	17.39	-27.33	-13	-14.33	Vertical
361.6	-34.26	1.66	15.39	-20.53	-13	-7.53	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

. Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.2 LTE BAND 4

QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1710.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-51.72	4.02	29.80	-25.94	-13	-12.94	Horizontal
3421.4	-46.27	4.02	29.80	-20.49	-13	-7.49	Vertical
5132.1	-48.77	5.24	35.84	-18.17	-13	-5.17	Vertical
5132.1	-51.53	5.24	35.84	-20.93	-13	-7.93	Horizontal
203.7	-40.92	1.68	16.04	-26.56	-13	-13.56	Vertical
279.2	-42.59	1.78	17.74	-26.63	-13	-13.63	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-52.14	4.03	30.00	-26.17	-13	-13.17	Horizontal
3465.0	-47.84	4.03	30.00	-21.87	-13	-8.87	Vertical
5197.5	-51.23	5.25	35.86	-20.62	-13	-7.62	Vertical
5197.5	-52.20	5.25	35.86	-21.59	-13	-8.59	Horizontal
210.7	-39.02	1.72	17.69	-23.05	-13	-10.05	Vertical
365.9	-41.42	1.62	16.02	-27.01	-13	-14.01	Horizontal
Test Results for High Channel 1754.3MHz							
3508.6	-48.57	4.05	30.01	-22.61	-13	-9.61	Horizontal
3508.6	-46.65	4.05	30.01	-20.69	-13	-7.69	Vertical
5262.9	-47.88	5.26	35.86	-17.28	-13	-4.28	Vertical
5262.9	-52.30	5.26	35.86	-21.70	-13	-8.70	Horizontal
197.4	-41.33	1.80	16.69	-26.44	-13	-13.44	Vertical
266.4	-35.41	1.75	16.66	-20.51	-13	-7.51	Horizontal

QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 1720MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-53.18	4.02	29.80	-27.40	-13	-14.40	Horizontal
3440.0	-53.59	4.02	29.80	-27.81	-13	-14.81	Vertical
5160.0	-52.38	5.24	35.84	-21.78	-13	-8.78	Vertical
5160.0	-52.76	5.24	35.84	-22.16	-13	-9.16	Horizontal
195.6	-44.26	1.57	17.26	-28.57	-13	-15.57	Vertical
250.3	-44.27	1.78	16.35	-29.70	-13	-16.70	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-53.10	4.03	30.00	-27.13	-13	-14.13	Horizontal
3465.0	-52.77	4.03	30.00	-26.80	-13	-13.80	Vertical
5197.5	-50.90	5.25	35.86	-20.29	-13	-7.29	Vertical
5197.5	-49.89	5.25	35.86	-19.28	-13	-6.28	Horizontal
200.2	-37.25	1.44	17.95	-20.74	-13	-7.74	Vertical
340.2	-40.48	1.65	16.09	-26.04	-13	-13.04	Horizontal
Test Results for High Channel 1745MHz							
3490.0	-48.50	2.91	27.68	-23.73	-13	-10.73	Horizontal
3490.0	-53.72	2.91	27.68	-28.95	-13	-15.95	Vertical
5235.0	-49.33	5.26	35.86	-18.73	-13	-5.73	Vertical
5235.0	-50.03	5.26	35.86	-19.43	-13	-6.43	Horizontal
191.3	-38.41	1.61	16.85	-23.17	-13	-10.17	Vertical
404.3	-34.86	1.61	15.19	-21.28	-13	-8.28	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

Over Limit= : P_{Mea}(dBm)-Limit(dBm)

Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.3 LTE BAND 5

QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 824.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-49.75	2.78	27.50	-25.03	-13	-12.03	Horizontal
1649.4	-49.16	2.78	27.50	-24.44	-13	-11.44	Vertical
2474.1	-47.42	2.90	27.80	-22.52	-13	-9.52	Vertical
2474.1	-52.85	2.90	27.80	-27.95	-13	-14.95	Horizontal
189.2	-36.74	1.76	17.59	-20.91	-13	-7.91	Vertical
348.5	-41.60	1.63	15.87	-27.36	-13	-14.36	Horizontal
Test Results For Mid Channel 836.5MHz							
1673.0	-52.86	2.80	27.48	-28.18	-13	-15.18	Horizontal
1673.0	-49.48	2.80	27.48	-24.80	-13	-11.80	Vertical
2509.5	-46.07	2.91	27.70	-21.28	-13	-8.28	Vertical
2509.5	-52.92	2.91	27.70	-28.13	-13	-15.13	Horizontal
189.5	-34.36	1.61	15.68	-20.29	-13	-7.29	Vertical
413.9	-40.25	1.59	17.52	-24.33	-13	-11.33	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-50.94	2.82	27.43	-26.33	-13	-13.33	Horizontal
1696.6	-50.00	2.82	27.43	-25.39	-13	-12.39	Vertical
2544.9	-44.62	2.92	27.74	-19.80	-13	-6.80	Vertical
2544.9	-49.98	2.92	27.74	-25.16	-13	-12.16	Horizontal
176.3	-36.14	1.69	16.67	-21.15	-13	-8.15	Vertical
244.5	-43.27	1.70	17.18	-27.79	-13	-14.79	Horizontal

QPSK EIRP POWER FOR LTE BAND 5 (10MHZ BANDWIDTH)

Test Results for Low Channel 829MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1658.0	-45.66	2.78	27.50	-20.94	-13	-7.94	Horizontal
1658.0	-47.35	2.78	27.50	-22.63	-13	-9.63	Vertical
2487.0	-51.12	2.90	27.80	-26.22	-13	-13.22	Vertical
2487.0	-51.82	2.90	27.80	-26.92	-13	-13.92	Horizontal
179.9	-37.99	1.71	15.57	-24.13	-13	-11.13	Vertical
402.6	-36.84	1.34	16.40	-21.78	-13	-8.78	Horizontal
Test Results for Mid Channel 836.5MHz							
1673.0	-44.88	2.80	27.48	-20.20	-13	-7.20	Horizontal
1673.0	-46.12	2.80	27.48	-21.44	-13	-8.44	Vertical
2509.5	-53.53	2.91	27.70	-28.74	-13	-15.74	Vertical
2509.5	-52.57	2.91	27.70	-27.78	-13	-14.78	Horizontal
180.0	-43.17	1.44	17.04	-27.57	-13	-14.57	Vertical
328.1	-44.04	1.76	17.62	-28.18	-13	-15.18	Horizontal
Test Results for High Channel 844MHz							
1688.0	-44.05	2.82	27.43	-19.44	-13	-6.44	Horizontal
1688.0	-47.31	2.82	27.43	-22.70	-13	-9.70	Vertical
2532.0	-48.73	2.92	27.74	-23.91	-13	-10.91	Vertical
2532.0	-51.92	2.92	27.74	-27.10	-13	-14.10	Horizontal
196.9	-40.06	1.74	17.70	-24.10	-13	-11.10	Vertical
250.2	-42.41	1.41	17.46	-26.35	-13	-13.35	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

. Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.4 LTE BAND 7

QPSK EIRP POWER FOR LTE BAND 7 (5.0MHZ BANDWIDTH)

Test Results for Low Channel 2502.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5005.0	-60.11	5.23	35.81	-29.53	-25	-4.53	Horizontal
5005.0	-61.98	5.23	35.81	-31.40	-25	-6.40	Vertical
7507.5	-61.27	5.67	36.85	-30.09	-25	-5.09	Vertical
7507.5	-62.59	5.67	36.85	-31.41	-25	-6.41	Horizontal
195.7	-47.54	1.73	17.97	-31.30	-25	-6.30	Vertical
255.4	-50.57	1.38	15.11	-36.84	-25	-11.84	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-64.89	5.23	35.82	-34.30	-25	-9.30	Horizontal
5070.0	-60.16	5.23	35.82	-29.57	-25	-4.57	Vertical
7605.0	-64.89	5.67	36.85	-33.71	-25	-8.71	Vertical
7605.0	-63.53	5.67	36.85	-32.35	-25	-7.35	Horizontal
201.1	-48.62	1.77	16.17	-34.21	-25	-9.21	Vertical
415.0	-51.75	1.63	15.21	-38.17	-25	-13.17	Horizontal
Test Results for High Channel 2567.5MHz							
5135.0	-59.32	5.24	35.83	-28.73	-25	-3.73	Horizontal
5135.0	-61.75	5.24	35.83	-31.16	-25	-6.16	Vertical
7702.5	-64.92	5.68	36.87	-33.73	-25	-8.73	Vertical
7702.5	-60.90	5.68	36.87	-29.71	-25	-4.71	Horizontal
177.1	-54.46	1.58	17.56	-38.48	-25	-13.48	Vertical
436.1	-51.97	1.45	16.58	-36.84	-25	-11.84	Horizontal

QPSK EIRP POWER FOR LTE BAND 7 (20.0MHZ BANDWIDTH)

Test Results for Low Channel 2510MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5020.0	-62.96	5.23	35.82	-32.37	-25	-7.37	Horizontal
5020.0	-63.25	5.23	35.82	-32.66	-25	-7.66	Vertical
7530.0	-61.65	5.67	36.86	-30.46	-25	-5.46	Vertical
7530.0	-60.37	5.67	36.86	-29.18	-25	-4.18	Horizontal
175.4	-45.92	1.63	15.76	-31.79	-25	-6.79	Vertical
307.2	-49.76	1.71	15.44	-36.03	-25	-11.03	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-59.42	5.23	35.82	-28.83	-25	-3.83	Horizontal
5070.0	-63.74	5.23	35.82	-33.15	-25	-8.15	Vertical
7605.0	-61.51	5.67	36.85	-30.33	-25	-5.33	Vertical
7605.0	-64.19	5.67	36.85	-33.01	-25	-8.01	Horizontal
185.1	-54.21	1.79	16.84	-39.15	-25	-14.15	Vertical
319.6	-52.44	1.71	17.64	-36.51	-25	-11.51	Horizontal
Test Results for High Channel 2560MHz							
5120.0	-63.39	5.24	35.83	-32.80	-25	-7.80	Horizontal
5120.0	-62.19	5.24	35.83	-31.60	-25	-6.60	Vertical
7680.0	-64.23	5.70	36.88	-33.05	-25	-8.05	Vertical
7680.0	-63.46	5.70	36.88	-32.28	-25	-7.28	Horizontal
203.0	-47.44	1.79	16.84	-32.38	-25	-7.38	Vertical
303.1	-47.08	1.71	17.64	-31.15	-25	-6.15	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

. Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.5 LTE BAND 12

QPSK EIRP POWER FOR LTE BAND 12 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 699.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1399.4	-44.08	2.60	27.20	-19.48	-13	-6.48	Horizontal
1399.4	-49.21	2.60	27.20	-24.61	-13	-11.61	Vertical
2099.1	-44.24	2.85	27.54	-19.55	-13	-6.55	Vertical
2099.1	-50.07	2.85	27.54	-25.38	-13	-12.38	Horizontal
194.7	-34.30	1.49	17.78	-18.01	-13	-5.01	Vertical
398.6	-41.78	1.36	17.33	-25.81	-13	-12.81	Horizontal
Test Results For Mid Channel 707.5MHz							
1415.0	-49.39	2.61	27.28	-24.72	-13	-11.72	Horizontal
1415.0	-47.73	2.61	27.28	-23.06	-13	-10.06	Vertical
2122.5	-46.47	2.87	27.59	-21.75	-13	-8.75	Vertical
2122.5	-53.47	2.87	27.59	-28.75	-13	-15.75	Horizontal
205.3	-40.23	1.73	15.74	-26.22	-13	-13.22	Vertical
363.1	-37.51	1.62	15.79	-23.34	-13	-10.34	Horizontal
Test Results for High Channel 715.3MHz							
1430.6	-44.45	2.63	27.28	-19.80	-13	-6.80	Horizontal
1430.6	-46.63	2.63	27.28	-21.98	-13	-8.98	Vertical
2145.9	-48.01	2.88	27.60	-23.29	-13	-10.29	Vertical
2145.9	-52.74	2.88	27.60	-28.02	-13	-15.02	Horizontal
205.9	-35.11	1.61	18.00	-18.72	-13	-5.72	Vertical
361.9	-40.20	1.45	15.49	-26.17	-13	-13.17	Horizontal

QPSK EIRP POWER FOR LTE BAND 12 (10MHZ BANDWIDTH)

Test Results for Low Channel 704MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1408.0	-51.47	2.61	27.26	-26.82	-13	-13.82	Horizontal
1408.0	-53.83	2.61	27.26	-29.18	-13	-16.18	Vertical
2112.0	-49.82	2.87	27.58	-25.11	-13	-12.11	Vertical
2112.0	-50.02	2.87	27.58	-25.31	-13	-12.31	Horizontal
211.3	-40.26	1.31	16.97	-24.60	-13	-11.60	Vertical
323.1	-38.91	1.65	16.70	-23.86	-13	-10.86	Horizontal
Test Results for Mid Channel 707.5MHz							
1415.0	-50.84	2.61	27.28	-26.17	-13	-13.17	Horizontal
1415.0	-47.74	2.61	27.28	-23.07	-13	-10.07	Vertical
2122.5	-46.95	2.87	27.59	-22.23	-13	-9.23	Vertical
2122.5	-53.93	2.87	27.59	-29.21	-13	-16.21	Horizontal
186.6	-34.19	1.72	17.99	-17.92	-13	-4.92	Vertical
258.3	-38.20	1.73	17.94	-21.99	-13	-8.99	Horizontal
Test Results for High Channel 711MHz							
1422.0	-50.54	2.62	27.28	-25.88	-13	-12.88	Horizontal
1422.0	-45.81	2.62	27.28	-21.15	-13	-8.15	Vertical
2133.0	-52.63	2.87	27.60	-27.90	-13	-14.90	Vertical
2133.0	-50.08	2.87	27.60	-25.35	-13	-12.35	Horizontal
188.3	-40.85	1.58	15.93	-26.50	-13	-13.50	Vertical
343.7	-39.02	1.36	15.59	-24.79	-13	-11.79	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

. Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.6 LTE BAND 17

QPSK EIRP POWER FOR LTE BAND 17 (5MHZ BANDWIDTH)

Test Results for Low Channel 706.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1413.0	-51.86	2.61	27.28	-27.19	-13	-14.19	Horizontal
1413.0	-52.44	2.61	27.28	-27.77	-13	-14.77	Vertical
2119.5	-53.10	2.87	27.59	-28.38	-13	-15.38	Vertical
2119.5	-50.63	2.87	27.59	-25.91	-13	-12.91	Horizontal
189.3	-43.23	1.71	16.15	-28.79	-13	-15.79	Vertical
253.6	-42.75	1.41	17.32	-26.84	-13	-13.84	Horizontal
Test Results For Mid Channel 710MHz							
1420.0	-50.41	2.62	27.30	-25.73	-13	-12.73	Horizontal
1420.0	-50.83	2.62	27.30	-26.15	-13	-13.15	Vertical
2130.0	-46.51	2.87	27.62	-21.76	-13	-8.76	Vertical
2130.0	-52.06	2.87	27.62	-27.31	-13	-14.31	Horizontal
206.1	-40.68	1.42	15.25	-26.86	-13	-13.86	Vertical
388.6	-44.30	1.36	17.19	-28.47	-13	-15.47	Horizontal
Test Results for High Channel 713.5MHz							
1427.0	-44.82	2.66	27.28	-20.20	-13	-7.20	Horizontal
1427.0	-47.91	2.66	27.28	-23.29	-13	-10.29	Vertical
2140.5	-49.70	2.88	27.60	-24.98	-13	-11.98	Vertical
2140.5	-51.50	2.88	27.60	-26.78	-13	-13.78	Horizontal
181.4	-34.74	1.32	17.29	-18.77	-13	-5.77	Vertical
274.1	-44.69	1.72	16.89	-29.52	-13	-16.52	Horizontal

QPSK EIRP POWER FOR LTE BAND 17 (10MHZ BANDWIDTH)

Test Results for Low Channel 709MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1418.0	-53.87	2.62	27.30	-29.19	-13	-16.19	Horizontal
1418.0	-45.20	2.62	27.30	-20.52	-13	-7.52	Vertical
2127.0	-53.04	2.87	27.62	-28.29	-13	-15.29	Vertical
2127.0	-49.18	2.87	27.62	-24.43	-13	-11.43	Horizontal
184.7	-39.76	1.35	16.91	-24.20	-13	-11.20	Vertical
273.6	-41.41	1.62	16.31	-26.72	-13	-13.72	Horizontal
Test Results for Mid Channel 710MHz							
1420.0	-48.09	2.62	27.30	-23.41	-13	-10.41	Horizontal
1420.0	-44.47	2.62	27.30	-19.79	-13	-6.79	Vertical
2130.0	-53.88	2.87	27.62	-29.13	-13	-16.13	Vertical
2130.0	-53.90	2.87	27.62	-29.15	-13	-16.15	Horizontal
212.4	-39.14	1.51	17.14	-23.51	-13	-10.51	Vertical
424.6	-41.35	1.77	16.88	-26.24	-13	-13.24	Horizontal
Test Results for High Channel 711MHz							
1422.0	-50.59	2.62	27.30	-25.91	-13	-12.91	Horizontal
1422.0	-54.00	2.62	27.30	-29.32	-13	-16.32	Vertical
2133.0	-46.99	2.87	27.62	-22.24	-13	-9.24	Vertical
2133.0	-51.94	2.87	27.62	-27.19	-13	-14.19	Horizontal
208.3	-34.97	1.78	15.95	-20.80	-13	-7.80	Vertical
282.1	-42.34	1.34	17.95	-25.74	-13	-12.74	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

. Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.7 LTE BAND 41

QPSK EIRP POWER FOR LTE BAND 41 (5MHZ BANDWIDTH)

Test Results for Low Channel 2498.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
4997.0	-60.58	5.23	35.81	-30.00	-25	-5.00	Horizontal
4997.0	-60.10	5.23	35.81	-29.52	-25	-4.52	Vertical
7495.5	-60.98	5.67	36.85	-29.80	-25	-4.80	Vertical
7495.5	-61.42	5.67	36.85	-30.24	-25	-5.24	Horizontal
435.3	-48.22	1.38	15.98	-33.62	-25	-8.62	Vertical
465.8	-47.01	1.62	15.66	-32.97	-25	-7.97	Horizontal
Test Results for Mid Channel 2593MHz							
5186.0	-61.91	5.23	35.82	-31.32	-25	-6.32	Horizontal
5186.0	-60.08	5.23	35.82	-29.49	-25	-4.49	Vertical
7779.0	-63.83	5.67	36.85	-32.65	-25	-7.65	Vertical
7779.0	-63.16	5.67	36.85	-31.98	-25	-6.98	Horizontal
510.4	-45.89	1.62	16.17	-31.34	-25	-6.34	Vertical
562.9	-47.64	1.74	17.63	-31.75	-25	-6.75	Horizontal
Test Results for High Channel 2687.5MHz							
5375.0	-59.59	5.24	35.83	-29.00	-25	-4.00	Horizontal
5375.0	-63.16	5.24	35.83	-32.57	-25	-7.57	Vertical
8062.5	-64.25	5.68	36.87	-33.06	-25	-8.06	Vertical
8062.5	-59.27	5.68	36.87	-28.08	-25	-3.08	Horizontal
197.6	-49.75	1.55	15.84	-35.46	-25	-10.46	Vertical
353.1	-48.89	1.51	17.06	-33.34	-25	-8.34	Horizontal

QPSK EIRP POWER FOR LTE BAND 41 (20MHZ BANDWIDTH)

Test Results for Low Channel 2506MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5012.0	-62.40	5.23	35.82	-31.81	-25	-6.81	Horizontal
5012.0	-63.73	5.23	35.82	-33.14	-25	-8.14	Vertical
7518.0	-63.95	5.67	36.86	-32.76	-25	-7.76	Vertical
7518.0	-62.52	5.67	36.86	-31.33	-25	-6.33	Horizontal
128.9	-49.95	1.43	15.51	-35.87	-25	-10.87	Vertical
344.8	-45.16	1.40	16.97	-29.59	-25	-4.59	Horizontal
Test Results for Mid Channel 2593MHz							
5186.0	-62.91	5.23	35.82	-32.32	-25	-7.32	Horizontal
5186.0	-60.05	5.23	35.82	-29.46	-25	-4.46	Vertical
7779.0	-64.76	5.67	36.85	-33.58	-25	-8.58	Vertical
7779.0	-60.32	5.67	36.85	-29.14	-25	-4.14	Horizontal
100.8	-44.29	1.77	16.72	-29.34	-25	-4.34	Vertical
263.5	-47.58	1.31	16.99	-31.90	-25	-6.90	Horizontal
Test Results for High Channel 2680MHz							
5360.0	-63.20	5.24	35.83	-32.61	-25	-7.61	Horizontal
5360.0	-59.56	5.24	35.83	-28.97	-25	-3.97	Vertical
8040.0	-62.89	5.70	36.88	-31.71	-25	-6.71	Vertical
8040.0	-60.97	5.70	36.88	-29.79	-25	-4.79	Horizontal
349.9	-48.60	1.70	15.73	-34.57	-25	-9.57	Vertical
110.3	-48.40	1.75	17.33	-32.82	-25	-7.82	Horizontal

9.8 LTE BAND 66

QPSK EIRP POWER FOR LTE BAND 66 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1710.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-47.89	4.02	29.80	-22.11	-13	-9.11	Horizontal
3421.4	-48.99	4.02	29.80	-23.21	-13	-10.21	Vertical
5132.1	-51.86	5.24	35.84	-21.26	-13	-8.26	Vertical
5132.1	-50.70	5.24	35.84	-20.10	-13	-7.10	Horizontal
112.6	-53.62	1.52	15.57	-39.57	-13	-26.57	Vertical
220.5	-48.29	1.33	17.14	-32.48	-13	-19.48	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-44.98	4.03	30.00	-19.01	-13	-6.01	Horizontal
3490.0	-49.62	4.03	30.00	-23.65	-13	-10.65	Vertical
5235.0	-53.54	5.25	35.86	-22.93	-13	-9.93	Vertical
5235.0	-49.88	5.25	35.86	-19.27	-13	-6.27	Horizontal
157.3	-47.53	1.53	17.13	-31.93	-13	-18.93	Vertical
213.1	-49.71	1.41	15.95	-35.17	-13	-22.17	Horizontal
Test Results for High Channel 1779.3MHz							
3558.6	-47.23	4.05	30.01	-21.27	-13	-8.27	Horizontal
3558.6	-53.85	4.05	30.01	-27.89	-13	-14.89	Vertical
5337.9	-54.34	5.26	35.86	-23.74	-13	-10.74	Vertical
5337.9	-53.77	5.26	35.86	-23.17	-13	-10.17	Horizontal
170.6	-51.91	1.44	15.51	-37.84	-13	-24.84	Vertical
169.0	-52.35	1.78	15.76	-38.37	-13	-25.37	Horizontal

QPSK EIRP POWER FOR LTE BAND 66 (20MHZ BANDWIDTH)

Test Results for Low Channel 1720MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-50.04	4.02	29.80	-24.26	-13	-11.26	Horizontal
3440.0	-49.50	4.02	29.80	-23.72	-13	-10.72	Vertical
5160.0	-53.04	5.24	35.84	-22.44	-13	-9.44	Vertical
5160.0	-52.82	5.24	35.84	-22.22	-13	-9.22	Horizontal
268.8	-51.41	1.62	17.02	-36.01	-13	-23.01	Vertical
161.4	-44.73	1.32	17.31	-28.74	-13	-15.74	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-48.24	4.03	30.00	-22.27	-13	-9.27	Horizontal
3490.0	-46.70	4.03	30.00	-20.73	-13	-7.73	Vertical
5235.0	-51.37	5.25	35.86	-20.76	-13	-7.76	Vertical
5235.0	-53.86	5.25	35.86	-23.25	-13	-10.25	Horizontal
159.9	-54.78	1.45	15.17	-41.06	-13	-28.06	Vertical
172.1	-44.10	1.48	17.82	-27.76	-13	-14.76	Horizontal
Test Results for High Channel 1770MHz							
3540.0	-46.48	2.91	27.68	-21.71	-13	-8.71	Horizontal
3540.0	-45.30	2.91	27.68	-20.53	-13	-7.53	Vertical
5310.0	-53.27	5.26	35.86	-22.67	-13	-9.67	Vertical
5310.0	-52.15	5.26	35.86	-21.55	-13	-8.55	Horizontal
197.3	-53.88	1.76	16.38	-39.26	-13	-26.26	Vertical
158.5	-44.25	1.43	17.13	-28.55	-13	-15.55	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

Over Limit= : P_{Mea}(dBm)-Limit(dBm)

We test both H direction and V direction, recorded worst case direction.

Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

9.9 LTE BAND 71

QPSK EIRP POWER FOR LTE BAND 71 (5MHZ BANDWIDTH)

Test Results for Low Channel 665.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1331	-52.52	2.61	27.28	-27.85	-13	-14.85	Horizontal
1331	-50.17	2.61	27.28	-25.50	-13	-12.50	Vertical
1996.5	-50.96	2.87	27.59	-26.24	-13	-13.24	Vertical
1996.5	-52.16	2.87	27.59	-27.44	-13	-14.44	Horizontal
Test Results For Mid Channel 680.5MHz							
1361	-51.90	2.62	27.30	-27.22	-13	-14.22	Horizontal
1361	-49.19	2.62	27.30	-24.51	-13	-11.51	Vertical
2041.5	-52.15	2.87	27.62	-27.40	-13	-14.40	Vertical
2041.5	-50.58	2.87	27.62	-25.83	-13	-12.83	Horizontal
Test Results for High Channel 695.5MHz							
1391	-48.56	2.66	27.28	-23.94	-13	-10.94	Horizontal
1391	-49.71	2.66	27.28	-25.09	-13	-12.09	Vertical
2086.5	-51.80	2.88	27.60	-27.08	-13	-14.08	Vertical
2086.5	-53.82	2.88	27.60	-29.10	-13	-16.10	Horizontal

QPSK EIRP POWER FOR LTE BAND 71 (20MHZ BANDWIDTH)

Test Results for Low Channel 673MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1346	-53.66	2.62	27.30	-28.98	-13	-15.98	Horizontal
1346	-50.41	2.62	27.30	-25.73	-13	-12.73	Vertical
2019	-51.93	2.87	27.62	-27.18	-13	-14.18	Vertical
2019	-52.96	2.87	27.62	-28.21	-13	-15.21	Horizontal
Test Results for Mid Channel 683MHz							
1366	-51.20	2.62	27.30	-26.52	-13	-13.52	Horizontal
1366	-50.09	2.62	27.30	-25.41	-13	-12.41	Vertical
2049	-52.59	2.87	27.62	-27.84	-13	-14.84	Vertical
2049	-50.61	2.87	27.62	-25.86	-13	-12.86	Horizontal
Test Results for High Channel 688MHz							
1376	-49.39	2.62	27.30	-24.71	-13	-11.71	Horizontal
1376	-49.91	2.62	27.30	-25.23	-13	-12.23	Vertical
2064	-52.27	2.87	27.62	-27.52	-13	-14.52	Vertical
2064	-53.61	2.87	27.62	-28.86	-13	-15.86	Horizontal

Note: $P_{Mea}(dBm) = Power(dBm) + AR_{pl}(dBm)$

. Over Limit = : $P_{Mea}(dBm) - Limit(dBm)$

. We test both H direction and V direction, recorded worst case direction.

Both QPSK and 16QAM has been tested, the worst case is QPSK mode, the report just reported the worst case.

10. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54,

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- ☐ Temp. = -30° to $+50^{\circ}\text{C}$
- ☐ Voltage = low voltage, DC 3.4V, Normal, DC 3.8V and High voltage, DC 4.2V.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to -30°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

- ☐ LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 41
- LTE Band 66
- LTE Band 71

RESULTS

See the following pages.

10.1 LTE BAND 2

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 QPSK, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1880	12.3	0.006548	2.5
3.8	1880	13.4	0.007106	2.5
4.2	1880	13.8	0.007319	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 QPSK, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1880	12.9	0.006875	2.5
Extreme (50C)	1880	11.8	0.006279	2.5
Extreme (40C)	1880	14.0	0.007428	2.5
Extreme (30C)	1880	13.3	0.007090	2.5
Extreme (10C)	1880	14.0	0.007453	2.5
Extreme (0C)	1880	12.5	0.006628	2.5
Extreme (-10C)	1880	12.6	0.006709	2.5
Extreme (-20C)	1880	14.4	0.007651	2.5
Extreme (-30C)	1880	14.2	0.007568	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 16QAM, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1880	9.8	0.005232	2.5
3.8	1880	8.9	0.004715	2.5
4.2	1880	8.1	0.004311	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 2 16QAM, (CH 18900 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1880	9.3	0.004955	2.5
Extreme (50C)	1880	8.6	0.004567	2.5
Extreme (40C)	1880	7.9	0.004216	2.5
Extreme (30C)	1880	9.1	0.004820	2.5
Extreme (10C)	1880	9.0	0.004798	2.5
Extreme (0C)	1880	8.3	0.004398	2.5
Extreme (-10C)	1880	9.3	0.004930	2.5
Extreme (-20C)	1880	9.2	0.004880	2.5
Extreme (-30C)	1880	7.9	0.004179	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.2 LTE BAND 4

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 QPSK, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1732.5	8.5	0.004883	2.5
3.8	1732.5	8.4	0.004851	2.5
4.2	1732.5	8.6	0.004965	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 QPSK, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1732.5	8.7	0.005039	2.5
Extreme (50C)	1732.5	9.0	0.005185	2.5
Extreme (40C)	1732.5	7.5	0.004315	2.5
Extreme (30C)	1732.5	5.5	0.003180	2.5
Extreme (10C)	1732.5	7.4	0.004296	2.5
Extreme (0C)	1732.5	9.1	0.005271	2.5
Extreme (-10C)	1732.5	7.9	0.004564	2.5
Extreme (-20C)	1732.5	7.3	0.004233	2.5
Extreme (-30C)	1732.5	8.7	0.005044	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 16QAM, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1732.5	9.7	0.005583	2.5
3.8	1732.5	8.8	0.005093	2.5
4.2	1732.5	7.9	0.004581	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 4 16QAM, (CH 20175 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1732.5	10.0	0.005764	2.5
Extreme (50C)	1732.5	9.2	0.005323	2.5
Extreme (40C)	1732.5	8.3	0.004800	2.5
Extreme (30C)	1732.5	8.6	0.004970	2.5
Extreme (10C)	1732.5	8.9	0.005166	2.5
Extreme (0C)	1732.5	7.9	0.004561	2.5
Extreme (-10C)	1732.5	9.5	0.005481	2.5
Extreme (-20C)	1732.5	8.9	0.005155	2.5
Extreme (-30C)	1732.5	7.7	0.004425	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.3 LTE BAND 5

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	836.5	6.1	0.007301	2.5
3.8	836.5	6.8	0.008126	2.5
4.2	836.5	4.8	0.005789	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 QPSK, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	836.5	5.8	0.006907	2.5
Extreme (50C)	836.5	5.9	0.007012	2.5
Extreme (40C)	836.5	5.7	0.006859	2.5
Extreme (30C)	836.5	6.3	0.007494	2.5
Extreme (10C)	836.5	5.0	0.006028	2.5
Extreme (0C)	836.5	5.1	0.006115	2.5
Extreme (-10C)	836.5	5.6	0.006722	2.5
Extreme (-20C)	836.5	6.1	0.007261	2.5
Extreme (-30C)	836.5	6.5	0.007758	2.5

16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	836.5	6.1	0.007346	2.5
3.8	836.5	6.6	0.007840	2.5
4.2	836.5	4.6	0.005537	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 5 16QAM, (CH 20525 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	836.5	6.6	0.007889	2.5
Extreme (50C)	836.5	5.6	0.006747	2.5
Extreme (40C)	836.5	6.0	0.007192	2.5
Extreme (30C)	836.5	6.0	0.007199	2.5
Extreme (10C)	836.5	5.1	0.006038	2.5
Extreme (0C)	836.5	5.3	0.006354	2.5
Extreme (-10C)	836.5	5.7	0.006860	2.5
Extreme (-20C)	836.5	5.7	0.006775	2.5
Extreme (-30C)	836.5	5.8	0.006947	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.4 LTE BAND 7

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 QPSK, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2535	9.5	0.003763	2.5
3.8	2535	8.7	0.003434	2.5
4.2	2535	8.0	0.003175	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 QPSK, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2535	9.0	0.003564	2.5
Extreme (50C)	2535	8.7	0.003435	2.5
Extreme (40C)	2535	8.8	0.003471	2.5
Extreme (30C)	2535	8.8	0.003476	2.5
Extreme (10C)	2535	8.3	0.003287	2.5
Extreme (0C)	2535	8.1	0.003198	2.5
Extreme (-10C)	2535	9.2	0.003629	2.5
Extreme (-20C)	2535	9.4	0.003707	2.5
Extreme (-30C)	2535	8.8	0.003488	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 16QAM, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2535	6.9	0.002722	2.5
3.8	2535	6.5	0.002546	2.5
4.2	2535	5.8	0.002307	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 7 16QAM, (CH 21100 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2535	6.9	0.002722	2.5
Extreme (50C)	2535	5.5	0.002170	2.5
Extreme (40C)	2535	5.7	0.002265	2.5
Extreme (30C)	2535	6.3	0.002493	2.5
Extreme (10C)	2535	6.0	0.002374	2.5
Extreme (0C)	2535	4.6	0.001830	2.5
Extreme (-10C)	2535	5.3	0.002083	2.5
Extreme (-20C)	2535	5.4	0.002132	2.5
Extreme (-30C)	2535	5.4	0.002124	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.5 LTE BAND 12

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 12 QPSK, (CH 23095 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	707.5	8.3	0.011800	2.5
3.8	707.5	10.5	0.014814	2.5
4.2	707.5	8.6	0.012091	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 12 QPSK, (CH 23095 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	707.5	9.1	0.012875	2.5
Extreme (50C)	707.5	7.5	0.010651	2.5
Extreme (40C)	707.5	7.3	0.010283	2.5
Extreme (30C)	707.5	7.9	0.011145	2.5
Extreme (10C)	707.5	7.3	0.010355	2.5
Extreme (0C)	707.5	8.8	0.012488	2.5
Extreme (-10C)	707.5	8.7	0.012359	2.5
Extreme (-20C)	707.5	8.4	0.011895	2.5
Extreme (-30C)	707.5	8.3	0.011725	2.5

16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 12 16QAM, (CH 23095 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	707.5	7.4	0.010399	2.5
3.8	707.5	8.2	0.011626	2.5
4.2	707.5	7.2	0.010163	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 12 QPSK, (CH 23095 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	707.5	6.5	0.009175	2.5
Extreme (50C)	707.5	5.5	0.007765	2.5
Extreme (40C)	707.5	6.4	0.009110	2.5
Extreme (30C)	707.5	-7.7	-0.010912	2.5
Extreme (10C)	707.5	-8.2	-0.011590	2.5
Extreme (0C)	707.5	2.9	0.004100	2.5
Extreme (-10C)	707.5	-5.2	-0.007292	2.5
Extreme (-20C)	707.5	-8.7	-0.012302	2.5
Extreme (-30C)	707.5	-10.2	-0.014350	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.6 LTE BAND 17

QPSK, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 17 QPSK, (CH 23790 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	710.0	10.1	0.014239	2.5
3.8	710.0	8.8	0.012431	2.5
4.2	710.0	8.4	0.011837	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 17 QPSK, (CH 23790 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	710.0	9.7	0.013675	2.5
Extreme (50C)	710.0	9.4	0.013217	2.5
Extreme (40C)	710.0	8.3	0.011689	2.5
Extreme (30C)	710.0	9.2	0.012940	2.5
Extreme (10C)	710.0	8.5	0.011972	2.5
Extreme (0C)	710.0	8.3	0.011647	2.5
Extreme (-10C)	710.0	9.4	0.013246	2.5
Extreme (-20C)	710.0	9.2	0.012983	2.5
Extreme (-30C)	710.0	8.1	0.011459	2.5

16QAM, (10MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 17 16QAM, (CH 23790 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
3.4	710.0	10.1	0.014177	2.5
3.8	710.0	8.4	0.011851	2.5
4.2	710.0	8.7	0.012263	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 17 QPSK, (CH 23790 RB size 50 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	710.0	9.7	0.013722	2.5
Extreme (50C)	710.0	8.9	0.012533	2.5
Extreme (40C)	710.0	8.0	0.011336	2.5
Extreme (30C)	710.0	8.6	0.012126	2.5
Extreme (10C)	710.0	8.6	0.012062	2.5
Extreme (0C)	710.0	7.9	0.011159	2.5
Extreme (-10C)	710.0	9.0	0.012738	2.5
Extreme (-20C)	710.0	8.9	0.012540	2.5
Extreme (-30C)	710.0	8.8	0.012362	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.7 LTE BAND 41

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 41 QPSK, (CH 40640 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2595	6.2	0.002387	2.5
3.8	2595	7.1	0.002750	2.5
4.2	2595	7.9	0.003063	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 41 QPSK, (CH 40640 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2595	5.2	0.002007	2.5
Extreme (50C)	2595	7.6	0.002941	2.5
Extreme (40C)	2595	6.1	0.002340	2.5
Extreme (30C)	2595	7.3	0.002822	2.5
Extreme (10C)	2595	7.7	0.002981	2.5
Extreme (0C)	2595	6.4	0.002474	2.5
Extreme (-10C)	2595	5.9	0.002264	2.5
Extreme (-20C)	2595	6.7	0.002585	2.5
Extreme (-30C)	2595	5.4	0.002062	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 41 16QAM, (CH 40640 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	2595	2.3	0.003159	2.5
3.8	2595	1.5	0.002060	2.5
4.2	2595	3.1	0.004258	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 41 16QAM, (CH 40640 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	2595	2.5	0.003434	2.5
Extreme (50C)	2595	2.1	0.002885	2.5
Extreme (40C)	2595	3.6	0.004945	2.5
Extreme (30C)	2595	1.9	0.002610	2.5
Extreme (10C)	2595	1.7	0.002335	2.5
Extreme (0C)	2595	4.2	0.005769	2.5
Extreme (-10C)	2595	4.3	0.005907	2.5
Extreme (-20C)	2595	3.2	0.004396	2.5
Extreme (-30C)	2595	1.8	0.002473	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.8 LTE BAND 66

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 QPSK, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1745	6.8	0.003915	2.5
3.8	1745	7.5	0.003812	2.5
4.2	1745	8.2	0.004172	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 QPSK, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1745	5.5	0.002985	2.5
Extreme (50C)	1745	7.7	0.004317	2.5
Extreme (40C)	1745	6.9	0.003454	2.5
Extreme (30C)	1745	7.1	0.003974	2.5
Extreme (10C)	1745	8.6	0.004509	2.5
Extreme (0C)	1745	6.8	0.003463	2.5
Extreme (-10C)	1745	6.4	0.003313	2.5
Extreme (-20C)	1745	7.6	0.003852	2.5
Extreme (-30C)	1745	7.0	0.003423	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 16QAM, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	1745	8.3	0.00462	2.5
3.8	1745	8.6	0.004436	2.5
4.2	1745	9.6	0.005194	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 66 16QAM, (CH 132322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	1745	8.9	0.005061	2.5
Extreme (50C)	1745	7.9	0.004447	2.5
Extreme (40C)	1745	8.6	0.004757	2.5
Extreme (30C)	1745	8.4	0.004539	2.5
Extreme (10C)	1745	8.1	0.004636	2.5
Extreme (0C)	1745	7.6	0.003824	2.5
Extreme (-10C)	1745	9.0	0.004745	2.5
Extreme (-20C)	1745	9.4	0.004918	2.5
Extreme (-30C)	1745	6.1	0.003037	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.9 LTE BAND 71

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 71 QPSK, (CH 133322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	683	8.6	0.01259	2.5
3.8	683	13.4	0.01962	2.5
4.2	683	13	0.01903	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 71 QPSK, (CH 133322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	683	7.7	0.01127	2.5
Extreme (50C)	683	5.2	0.00761	2.5
Extreme (40C)	683	5.1	0.00747	2.5
Extreme (30C)	683	5	0.00732	2.5
Extreme (10C)	683	6.6	0.00966	2.5
Extreme (0C)	683	4.8	0.00703	2.5
Extreme (-10C)	683	9.8	0.01435	2.5
Extreme (-20C)	683	7.2	0.01054	2.5
Extreme (-30C)	683	7.3	0.01069	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 71 16QAM, (CH 133322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
3.4	683	12.3	0.01801	2.5
3.8	683	14.2	0.02079	2.5
4.2	683	11.2	0.01640	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 71 16QAM, (CH 133322 RB size 100 RB Offset 0 20MHz BANDWIDTH)				
Normal (25C)	683	7.7	0.01127	2.5
Extreme (50C)	683	4.7	0.00688	2.5
Extreme (40C)	683	5.9	0.00864	2.5
Extreme (30C)	683	5.2	0.00761	2.5
Extreme (10C)	683	5.2	0.00761	2.5
Extreme (0C)	683	6.3	0.00922	2.5
Extreme (-10C)	683	9.4	0.01376	2.5
Extreme (-20C)	683	8.2	0.01201	2.5
Extreme (-30C)	683	8.4	0.01230	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

11. Peak-to-Average Ratio

11.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

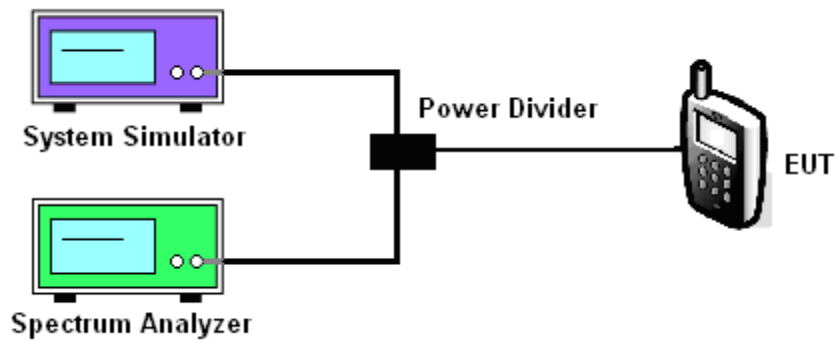
11.2 Measuring Instruments

See list of measuring instruments of this test report.

11.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. For LTE operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

11.4 Test Setup



MODES TESTED

- ☐ LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 41
- LTE Band 66
- LTE Band 71

Test data reference attachment.

----END OF REPORT----