

FCC CFR47 PART 22H, 24E, 27,90S CERTIFICATION TEST REPORT FCC ID:2ANMU-C17

Product: Smart Phone
Trade Mark: OUKITEL
Model No.: C17
Family Model: C17 S, C17 E, C17 Pro, C17 Plus, C17 Ultra, C17
MAX, C17 GT
Report No.: N26010803421E
Issue Date: Feb. 11, 2026

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.
No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street,
Baoan District, Shenzhen, Guangdong, People's Republic of China
Tel. 0755-23200050 Website: <http://www.ntek.org.cn>

TEST RESULT CERTIFICATION

Applicant's name: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX
China
Manufacturer's Name: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX
China
Product name: Smart Phone
Model and/or type reference: C17
Trade Mark: OUKITEL
Family Model: C17 S, C17 E, C17 Pro, C17 Plus, C17 Ultra, C17 MAX, C17 GT
Test Sample Number S2601090021-1#
Standards: FCC CFR 47 Part 22H, Part 24E, Part 27, Part 90S
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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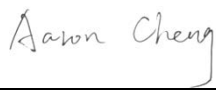
Date of Test

Date (s) of performance of tests Jan. 08, 2026 ~ Feb. 11, 2026

Date of Issue Feb. 11, 2026

Test Result **Pass**

Prepared By : 
Allen Liu
(Project Engineer)

Reviewed By : 
Aaron Cheng
(Supervisor)

Approved By : 
Alex Li
(Manager)

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Smart Phone
Trade Mark	OUKITEL
Model Name	C17
Family Model	C17 S, C17 E, C17 Pro, C17 Plus, C17 Ultra, C17 MAX, C17 GT
Model Difference	All models have the same circuit and RF module, except for model names.
FCC ID:	2ANMU-C17
Frequency Bands:	U.S. Bands: ☒ LTE FDD Band 2, 4, 5, 7, 12, 17, 25, 26, 66
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 25 Uplink: 1850MHz-1915MHz, Downlink: 1930MHz-1995MHz; LTE FDD Band 26A Uplink: 814MHz-824MHz, Downlink: 859MHz-869MHz; LTE FDD Band 26B Uplink: 824MHz-849MHz, Downlink: 869MHz-894MHz; LTE FDD Band 66 Uplink: 1710MHz-1780MHz, Downlink: 2110MHz-2200MHz;
Type of Modulation:	QPSK/16QAM/64QAM(Only Downlink)
Power Class	Class 3
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 2:1.02 dBi, Band 4: 0.94 dBi, Band 5: -2.74 dBi, Band 7: 0.55 dBi, Band 12: -4.01 dBi, Band 17: -4.01 dBi, Band25:1.02 dBi, Band 26: -2.74 dBi, Band66: 0.94 dBi;
Adapter	Model: HJ-0502000N2-US Input: 100-240V~50/60Hz 0.3A Output: DC 5.0V---2.0A, 10.0W
Battery	DC 3.87V, 5000mAh, 19.35Wh
Power supply	DC 3.87V from battery or DC 5V from adapter
Extreme Vol. Limits:	DC 3.29V to DC 4.45V (Nominal DC 3.87V) (Note 1)

HW Version	J566A_610&310_D3EF_V1.0
SW Version	OUKITEL_C17_A16_EEA_V03_20260120
** Note1: The High Voltage DC 4.45V and Low Voltage 3.29V 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:2ANMU-C17** filing to comply with the FCC Part 22H&24E&27&90S

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, Part 90S, 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.

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of 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,

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 2/4/5/7/12/17/25/26/66

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	Smart Phone	C17	FCC ID: 2ANMU-C17	EUT

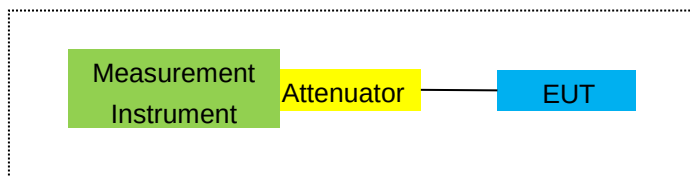
*Note: All the accessories have been used during the test.
the following "EUT" in setup diagram means EUT system.*

2.4 TEST SETUP

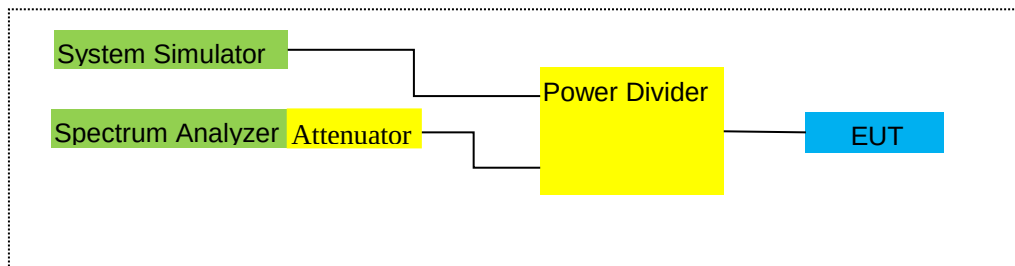
For Radiated Test Cases



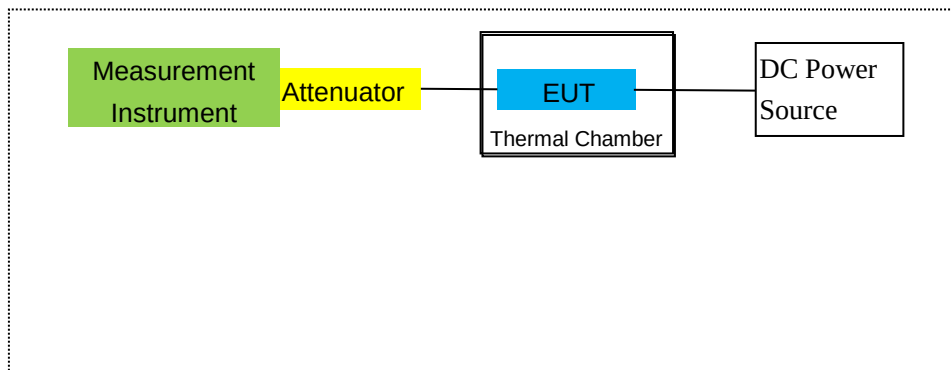
For Conducted Output Power



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	2025.04.17	2026.04.16	1 year
2	Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2025.04.17	2026.04.16	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
7	Amplifier	EM	EM-30180	060538	2025.04.17	2026.04.16	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2025.04.17	2026.04.16	1 year
9	Power Meter	R&S	NRVS	100696	2025.04.17	2026.04.16	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2025.04.17	2026.04.16	1 year
11	Test Cable	N/A	R-01	N/A	2023.06.16	2026.06.15	3 year
12	Test Cable	N/A	R-02	N/A	2023.06.16	2026.06.15	3 year
13	Test Cable	N/A	R-03	N/A	2023.06.16	2026.06.15	3 year
14	Test Receiver	R&S	ESCI	101160	2025.04.17	2026.04.16	1 year
15	LISN	R&S	ENV216	101313	2025.04.17	2026.04.16	1 year
16	LISN	EMCO	3816/2	00042990	2025.04.17	2026.04.16	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2025.04.17	2026.04.16	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2025.04.17	2026.04.16	1 year
19	Test Cable	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
20	Test Cable	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
21	Test Cable	N/A	C03	N/A	2023.05.06	2026.05.05	3 year
22	Attenuator	MCE	24-10-34	BN9258	2025.04.17	2026.04.16	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2025.04.17	2026.04.16	1 year
24	test receiver	R&S	ESCI	a0304218	2025.04.17	2026.04.16	1 year
25	Communication Tester	R&S	CMU200	A0304247	2025.04.17	2026.04.16	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2025.04.17	2026.04.16	1 year

27	DC Power Source	N/A	PS-6005D	20170402923	2023.05.06	2026.05.05	3 year
28	MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2025.04.17	2026.04.16	1 year
29	Communication Tester	R&S	CMW500	148500	2025.05.06	2026.05.05	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

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTtest	MTS 8200	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest

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

Band 2/4/5/7/12/17/25/26/66

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, and §90.691

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;

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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

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

Band 2/4/5/7/12/17/25/26/66

RESULTS

Test data reference attachment.

7. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.691

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

Band 2/4/5/7/12/17/25/26/66

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 and §90.635

LIMITS:

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232 (c) Mobile and portable stations are limited to 2 watts EIRP.

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.

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

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

Band 2/4/5/7/12/17/25/26/66

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 Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP	Polarization Of Max. ERP		
							Average		Limit	
							(mW)			
1.4MHz Band QPSK	1/#Mid	1850.7	-4.18	3.76	28.24	20.30	107.152	Horizontal	2	Pass
		1880	-3.99	3.91	28.22	20.32	107.647	Horizontal	2	Pass
		1909.3	-3.90	3.93	28.20	20.37	108.893	Horizontal	2	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-4.24	3.77	28.23	20.22	105.196	Horizontal	2	Pass
		1880	-4.09	3.91	28.24	20.24	105.682	Horizontal	2	Pass
		1908.5	-3.96	3.94	28.25	20.35	108.393	Horizontal	2	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-4.13	3.77	28.31	20.41	109.901	Horizontal	2	Pass
		1880	-3.75	3.91	28.22	20.56	113.763	Horizontal	2	Pass
		1907.5	-3.68	3.94	28.20	20.58	114.288	Horizontal	2	Pass
10.0MHz Band QPSK	1/#Mid	1855	-3.99	3.79	28.33	20.55	113.501	Horizontal	2	Pass
		1880	-3.69	3.95	28.22	20.58	114.288	Horizontal	2	Pass
		1905	-3.58	3.97	28.19	20.64	115.878	Horizontal	2	Pass
15.0MHz Band QPSK	1/#Mid	1857.5	-3.95	3.79	28.34	20.60	114.815	Horizontal	2	Pass
		1880	-3.74	3.95	28.22	20.53	112.980	Horizontal	2	Pass
		1902.5	-3.60	3.97	28.18	20.61	115.080	Horizontal	2	Pass
20.0MHz Band QPSK	1/#Mid	1860	-3.94	3.81	28.35	20.60	114.815	Horizontal	2	Pass
		1880	-3.61	3.96	28.22	20.65	116.145	Horizontal	2	Pass
		1900	-3.55	4.00	28.16	20.61	115.080	Horizontal	2	Pass
1.4MHz Band QPSK	1/#Mid	1850.7	-5.35	3.76	28.24	19.13	81.846	Vertical	2	Pass
		1880	-4.81	3.91	28.22	19.50	89.125	Vertical	2	Pass
		1909.3	-5.01	3.93	28.20	19.26	84.333	Vertical	2	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-4.53	3.77	28.23	19.93	98.401	Vertical	2	Pass
		1880	-4.59	3.91	28.24	19.74	94.189	Vertical	2	Pass
		1908.5	-5.07	3.94	28.25	19.24	83.946	Vertical	2	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-5.31	3.77	28.31	19.23	83.753	Vertical	2	Pass
		1880	-4.77	3.91	28.22	19.54	89.950	Vertical	2	Pass
		1907.5	-4.72	3.94	28.20	19.54	89.950	Vertical	2	Pass
10.0MHz Band QPSK	1/#Mid	1855	-5.47	3.79	28.33	19.07	80.724	Vertical	2	Pass
		1880	-4.51	3.95	28.22	19.76	94.624	Vertical	2	Pass
		1905	-4.35	3.97	28.19	19.87	97.051	Vertical	2	Pass
15.0MHz Band	1/#Mid	1857.5	-5.21	3.79	28.34	19.34	85.901	Vertical	2	Pass
		1880	-5.15	3.95	28.22	19.12	81.658	Vertical	2	Pass

QPSK		1902.5	-5.11	3.97	28.18	19.10	81.283	Vertical	2	Pass
20.0MHz	1/#Mid	1860	-4.55	3.81	28.35	19.99	99.770	Vertical	2	Pass
Band		1880	-5.07	3.96	28.22	19.19	82.985	Vertical	2	Pass
QPSK		1900	-4.96	4.00	28.16	19.20	83.176	Vertical	2	Pass

		Radiated Power (EIRP) for Band 2								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP	Polarization Of Max. ERP		
							Average		Limit	
							(mW)			
1.4MHz Band 16 QAM	1/#Mid	1850.7	-5.30	3.76	28.24	19.18	82.794	Horizontal	2	Pass
		1880	-4.77	3.91	28.22	19.54	89.950	Horizontal	2	Pass
		1909.3	-4.70	3.93	28.20	19.57	90.573	Horizontal	2	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-4.80	3.77	28.23	19.66	92.470	Horizontal	2	Pass
		1880	-4.88	3.91	28.24	19.45	88.105	Horizontal	2	Pass
		1908.5	-5.09	3.94	28.25	19.22	83.560	Horizontal	2	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-4.74	3.77	28.31	19.80	95.499	Horizontal	2	Pass
		1880	-4.65	3.91	28.22	19.66	92.470	Horizontal	2	Pass
		1907.5	-4.33	3.94	28.20	19.93	98.401	Horizontal	2	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-4.79	3.79	28.33	19.75	94.406	Horizontal	2	Pass
		1880	-4.78	3.95	28.22	19.49	88.920	Horizontal	2	Pass
		1905	-4.25	3.97	28.19	19.97	99.312	Horizontal	2	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-4.77	3.79	28.34	19.78	95.060	Horizontal	2	Pass
		1880	-4.56	3.95	28.22	19.71	93.541	Horizontal	2	Pass
		1902.5	-4.52	3.97	28.18	19.69	93.111	Horizontal	2	Pass
20.0MHz Band 16 QAM	1/#Mid	1860	-4.66	3.81	28.35	19.88	97.275	Horizontal	2	Pass
		1880	-4.36	3.96	28.22	19.90	97.724	Horizontal	2	Pass
		1900	-4.18	4.00	28.16	19.98	99.541	Horizontal	2	Pass
1.4MHz Band 16 QAM	1/#Mid	1850.7	-5.87	3.76	28.24	18.61	72.611	Vertical	2	Pass
		1880	-5.79	3.91	28.22	18.52	71.121	Vertical	2	Pass
		1909.3	-5.58	3.93	28.20	18.69	73.961	Vertical	2	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-5.71	3.77	28.23	18.75	74.989	Vertical	2	Pass
		1880	-5.42	3.91	28.24	18.91	77.804	Vertical	2	Pass
		1908.5	-6.04	3.94	28.25	18.27	67.143	Vertical	2	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-5.65	3.77	28.31	18.89	77.446	Vertical	2	Pass
		1880	-5.47	3.91	28.22	18.84	76.560	Vertical	2	Pass
		1907.5	-6.02	3.94	28.20	18.24	66.681	Vertical	2	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-6.05	3.79	28.33	18.49	70.632	Vertical	2	Pass
		1880	-5.92	3.95	28.22	18.35	68.391	Vertical	2	Pass
		1905	-5.92	3.97	28.19	18.30	67.608	Vertical	2	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-6.41	3.79	28.34	18.14	65.163	Vertical	2	Pass
		1880	-6.04	3.95	28.22	18.23	66.527	Vertical	2	Pass
		1902.5	-5.99	3.97	28.18	18.22	66.374	Vertical	2	Pass
20.0MHz	1/#Mid	1860	-5.96	3.81	28.35	18.58	72.111	Vertical	2	Pass

Band 16 QAM	1880	-5.91	3.96	28.22	18.35	68.391	Vertical	2	Pass
	1900	-5.59	4.00	28.16	18.57	71.945	Vertical	2	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 (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
									Limit	
1.4MHz Band QPSK	1/#Mid	1710.7	-4.09	3.12	27.58	20.37	108.893	Horizontal	1	Pass
		1732.5	-4.08	3.27	27.61	20.26	106.170	Horizontal	1	Pass
		1754.3	-4.06	3.29	27.63	20.28	106.660	Horizontal	1	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-4.26	3.13	27.61	20.22	105.196	Horizontal	1	Pass
		1732.5	-4.18	3.27	27.61	20.16	103.753	Horizontal	1	Pass
		1753.5	-4.10	3.30	27.62	20.22	105.196	Horizontal	1	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-4.03	3.13	27.63	20.47	111.429	Horizontal	1	Pass
		1732.5	-3.93	3.27	27.61	20.41	109.901	Horizontal	1	Pass
		1752.5	-3.81	3.30	27.60	20.49	111.944	Horizontal	1	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.97	3.15	27.64	20.52	112.720	Horizontal	1	Pass
		1732.5	-3.74	3.31	27.61	20.56	113.763	Horizontal	1	Pass
		1750	-3.76	3.33	27.59	20.50	112.202	Horizontal	1	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-3.98	3.15	27.65	20.52	112.720	Horizontal	1	Pass
		1732.5	-3.82	3.31	27.61	20.48	111.686	Horizontal	1	Pass
		1747.5	-3.76	3.33	27.57	20.48	111.686	Horizontal	1	Pass
20.0MHz Band QPSK	1/#Mid	1720	-3.92	3.17	27.66	20.57	114.025	Horizontal	1	Pass
		1732.5	-3.75	3.32	27.61	20.54	113.240	Horizontal	1	Pass
		1745	-3.69	3.36	27.56	20.51	112.460	Horizontal	1	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-4.89	3.12	27.58	19.57	90.573	Vertical	1	Pass
		1732.5	-5.27	3.27	27.61	19.07	80.724	Vertical	1	Pass
		1754.3	-4.87	3.29	27.63	19.47	88.512	Vertical	1	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-4.79	3.13	27.61	19.69	93.111	Vertical	1	Pass
		1732.5	-4.32	3.27	27.61	20.02	100.462	Vertical	1	Pass
		1753.5	-5.16	3.30	27.62	19.16	82.414	Vertical	1	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-4.65	3.13	27.63	19.85	96.605	Vertical	1	Pass
		1732.5	-4.49	3.27	27.61	19.85	96.605	Vertical	1	Pass
		1752.5	-4.72	3.30	27.60	19.58	90.782	Vertical	1	Pass
10.0MHz Band QPSK	1/#Mid	1715	-5.22	3.15	27.64	19.27	84.528	Vertical	1	Pass
		1732.5	-4.71	3.31	27.61	19.59	90.991	Vertical	1	Pass
		1750	-4.89	3.33	27.59	19.37	86.497	Vertical	1	Pass

15.0MHz	1/#Mid	1717.5	-5.42	3.15	27.65	19.08	80.910	Vertical	1	Pass
Band		1732.5	-4.99	3.31	27.61	19.31	85.310	Vertical	1	Pass
QPSK		1747.5	-5.15	3.33	27.57	19.09	81.096	Vertical	1	Pass
20.0MHz	1/#Mid	1720	-5.38	3.17	27.66	19.11	81.470	Vertical	1	Pass
Band		1732.5	-4.33	3.32	27.61	19.96	99.083	Vertical	1	Pass
QPSK		1745	-4.94	3.36	27.56	19.26	84.333	Vertical	1	Pass

		Radiated Power (EIRP) for Band 4								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
									Limit	
1.4MHz Band 16 QAM	1/#Mid	1710.7	-4.90	3.12	27.58	19.56	90.365	Horizontal	1	Pass
		1732.5	-4.75	3.27	27.61	19.59	90.991	Horizontal	1	Pass
		1754.3	-4.75	3.29	27.63	19.59	90.991	Horizontal	1	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-4.84	3.13	27.61	19.64	92.045	Horizontal	1	Pass
		1732.5	-4.97	3.27	27.61	19.37	86.497	Horizontal	1	Pass
		1753.5	-5.19	3.30	27.62	19.13	81.846	Horizontal	1	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-4.67	3.13	27.63	19.83	96.161	Horizontal	1	Pass
		1732.5	-4.63	3.27	27.61	19.71	93.541	Horizontal	1	Pass
		1752.5	-4.32	3.30	27.60	19.98	99.541	Horizontal	1	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-4.74	3.15	27.64	19.75	94.406	Horizontal	1	Pass
		1732.5	-4.93	3.31	27.61	19.37	86.497	Horizontal	1	Pass
		1750	-4.31	3.33	27.59	19.95	98.855	Horizontal	1	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-4.54	3.15	27.65	19.96	99.083	Horizontal	1	Pass
		1732.5	-4.60	3.31	27.61	19.70	93.325	Horizontal	1	Pass
		1747.5	-4.62	3.33	27.57	19.62	91.622	Horizontal	1	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-4.49	3.17	27.66	20.00	100.000	Horizontal	1	Pass
		1732.5	-4.50	3.32	27.61	19.79	95.280	Horizontal	1	Pass
		1745	-4.31	3.36	27.56	19.89	97.499	Horizontal	1	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-5.54	3.12	27.58	18.92	77.983	Vertical	1	Pass
		1732.5	-5.80	3.27	27.61	18.54	71.450	Vertical	1	Pass
		1754.3	-6.04	3.29	27.63	18.30	67.608	Vertical	1	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-5.73	3.13	27.61	18.75	74.989	Vertical	1	Pass
		1732.5	-5.63	3.27	27.61	18.71	74.302	Vertical	1	Pass
		1753.5	-5.67	3.30	27.62	18.65	73.282	Vertical	1	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-6.29	3.13	27.63	18.21	66.222	Vertical	1	Pass
		1732.5	-6.00	3.27	27.61	18.34	68.234	Vertical	1	Pass
		1752.5	-5.61	3.30	27.60	18.69	73.961	Vertical	1	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-6.42	3.15	27.64	18.07	64.121	Vertical	1	Pass
		1732.5	-5.76	3.31	27.61	18.54	71.450	Vertical	1	Pass
		1750	-5.89	3.33	27.59	18.37	68.707	Vertical	1	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-6.32	3.15	27.65	18.18	65.766	Vertical	1	Pass
		1732.5	-6.24	3.31	27.61	18.06	63.973	Vertical	1	Pass
		1747.5	-6.21	3.33	27.57	18.03	63.533	Vertical	1	Pass

20.0MHz		1720	-5.78	3.17	27.66	18.71	74.302	Vertical	1	Pass
Band 16	1/#Mid	1732.5	-5.96	3.32	27.61	18.33	68.077	Vertical	1	Pass
QAM		1745	-5.62	3.36	27.56	18.58	72.111	Vertical	1	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 (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz Band QPSK	3/#Mid	824.7	5.21	2.01	19.68	2.15	20.73	118.304	Horizontal	7	Pass
		836.5	5.09	2.01	19.77	2.15	20.70	117.490	Horizontal	7	Pass
		848.3	4.89	2.02	19.82	2.15	20.54	113.240	Horizontal	7	Pass
3.0MHz Band QPSK	1/#Mid	825.5	4.98	2.01	19.70	2.15	20.52	112.720	Horizontal	7	Pass
		836.5	4.88	2.01	19.77	2.15	20.49	111.944	Horizontal	7	Pass
		847.5	4.75	2.02	19.81	2.15	20.39	109.396	Horizontal	7	Pass
5.0MHz Band QPSK	1/#Mid	826.5	5.26	2.01	19.71	2.15	20.81	120.504	Horizontal	7	Pass
		836.5	5.14	2.01	19.77	2.15	20.75	118.850	Horizontal	7	Pass
		846.5	4.98	2.02	19.79	2.15	20.60	114.815	Horizontal	7	Pass
10.0MHz Band QPSK	1/#Mid	829	5.28	2.01	19.73	2.15	20.85	121.619	Horizontal	7	Pass
		836.5	5.23	2.01	19.77	2.15	20.84	121.339	Horizontal	7	Pass
		844	5.13	2.02	19.78	2.15	20.74	118.577	Horizontal	7	Pass
1.4MHz Band QPSK	1/#Mid	824.7	3.80	2.01	19.68	2.15	19.32	85.507	Vertical	7	Pass
		836.5	3.84	2.01	19.77	2.15	19.45	88.105	Vertical	7	Pass
		848.3	4.17	2.02	19.82	2.15	19.82	95.940	Vertical	7	Pass
3.0MHz Band QPSK	1/#Mid	825.5	4.48	2.01	19.70	2.15	20.02	100.462	Vertical	7	Pass
		836.5	3.97	2.01	19.77	2.15	19.58	90.782	Vertical	7	Pass
		847.5	3.99	2.02	19.81	2.15	19.63	91.833	Vertical	7	Pass
5.0MHz Band QPSK	1/#Mid	826.5	3.72	2.01	19.71	2.15	19.27	84.528	Vertical	7	Pass
		836.5	3.92	2.01	19.77	2.15	19.53	89.743	Vertical	7	Pass
		846.5	3.99	2.02	19.79	2.15	19.61	91.411	Vertical	7	Pass
10.0MHz Band QPSK	1/#Mid	829	3.58	2.01	19.73	2.15	19.15	82.224	Vertical	7	Pass
		836.5	4.16	2.01	19.77	2.15	19.77	94.842	Vertical	7	Pass
		844	4.39	2.02	19.78	2.15	20.00	100.000	Vertical	7	Pass

		Radiated Power (ERP) for Band 5									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz Band 16 QAM	3/##Mid	824.7	4.36	2.01	19.68	2.15	19.88	97.275	Horizontal	7	Pass
		836.5	4.29	2.01	19.77	2.15	19.90	97.724	Horizontal	7	Pass
		848.3	4.13	2.02	19.82	2.15	19.78	95.060	Horizontal	7	Pass
3.0MHz Band 16 QAM	1/##Mid	825.5	4.44	2.01	19.70	2.15	19.98	99.541	Horizontal	7	Pass
		836.5	4.15	2.01	19.77	2.15	19.76	94.624	Horizontal	7	Pass
		847.5	3.63	2.02	19.81	2.15	19.27	84.528	Horizontal	7	Pass
5.0MHz Band 16 QAM	1/##Mid	826.5	4.76	2.01	19.71	2.15	20.31	107.399	Horizontal	7	Pass
		836.5	4.53	2.01	19.77	2.15	20.14	103.276	Horizontal	7	Pass
		846.5	4.28	2.02	19.79	2.15	19.90	97.724	Horizontal	7	Pass
10.0MHz Band 16 QAM	1/##Mid	829	4.76	2.01	19.73	2.15	20.33	107.895	Horizontal	7	Pass
		836.5	4.48	2.01	19.77	2.15	20.09	102.094	Horizontal	7	Pass
		844	4.02	2.02	19.78	2.15	19.63	91.833	Horizontal	7	Pass
1.4MHz Band 16 QAM	1/##Mid	824.7	3.50	2.01	19.68	2.15	19.02	79.799	Vertical	7	Pass
		836.5	4.41	2.01	19.77	2.15	20.02	100.462	Vertical	7	Pass
		848.3	3.93	2.02	19.82	2.15	19.58	90.782	Vertical	7	Pass
3.0MHz Band 16 QAM	1/##Mid	825.5	3.81	2.01	19.70	2.15	19.35	86.099	Vertical	7	Pass
		836.5	2.75	2.01	19.77	2.15	18.36	68.549	Vertical	7	Pass
		847.5	3.42	2.02	19.81	2.15	19.06	80.538	Vertical	7	Pass
5.0MHz Band 16 QAM	1/##Mid	826.5	3.46	2.01	19.71	2.15	19.01	79.616	Vertical	7	Pass
		836.5	3.00	2.01	19.77	2.15	18.61	72.611	Vertical	7	Pass
		846.5	2.42	2.02	19.79	2.15	18.04	63.680	Vertical	7	Pass
10.0MHz Band 16 QAM	1/##Mid	829	2.97	2.01	19.73	2.15	18.54	71.450	Vertical	7	Pass
		836.5	2.84	2.01	19.77	2.15	18.45	69.984	Vertical	7	Pass
		844	3.24	2.02	19.78	2.15	18.85	76.736	Vertical	7	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)

ERP(dBm)=EIRP-2.15

8.5 LTE BAND 7

		Radiated Power (EIRP) for Band 7								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
									Limit	
									(W)	
5.0MHz Band QPSK	1/#Mid	2502.5	-2.37	4.54	27.75	20.84	121.339	Horizontal	2	Pass
		2535	-2.20	4.69	27.72	20.83	121.060	Horizontal	2	Pass
		2567.5	-2.13	4.71	27.71	20.87	122.180	Horizontal	2	Pass
10.0MHz Band QPSK	1/#Mid	2505	-2.30	4.55	27.76	20.91	123.310	Horizontal	2	Pass
		2535	-2.11	4.69	27.72	20.92	123.595	Horizontal	2	Pass
		2565	-2.03	4.72	27.70	20.95	124.451	Horizontal	2	Pass
15.0MHz Band QPSK	1/#Mid	2507.5	-2.31	4.55	27.77	20.91	123.310	Horizontal	2	Pass
		2535	-2.17	4.69	27.72	20.86	121.899	Horizontal	2	Pass
		2562.5	-2.07	4.72	27.69	20.90	123.027	Horizontal	2	Pass
20.0MHz Band QPSK	1/#Mid	2510	-2.25	4.57	27.78	20.96	124.738	Horizontal	2	Pass
		2535	-2.07	4.73	27.72	20.92	123.595	Horizontal	2	Pass
		2560	-2.03	4.75	27.68	20.90	123.027	Horizontal	2	Pass
5.0MHz Band QPSK	1/#Mid	2502.5	-4.17	4.54	27.75	19.04	80.168	Vertical	2	Pass
		2535	-3.94	4.69	27.72	19.09	81.096	Vertical	2	Pass
		2567.5	-3.29	4.71	27.71	19.71	93.541	Vertical	2	Pass
10.0MHz Band QPSK	1/#Mid	2505	-3.57	4.55	27.76	19.64	92.045	Vertical	2	Pass
		2535	-3.23	4.69	27.72	19.80	95.499	Vertical	2	Pass
		2565	-3.84	4.72	27.70	19.14	82.035	Vertical	2	Pass
15.0MHz Band QPSK	1/#Mid	2507.5	-3.47	4.55	27.77	19.75	94.406	Vertical	2	Pass
		2535	-3.17	4.69	27.72	19.86	96.828	Vertical	2	Pass
		2562.5	-3.95	4.72	27.69	19.02	79.799	Vertical	2	Pass
20.0MHz Band QPSK	1/#Mid	2510	-3.26	4.57	27.78	19.95	98.855	Vertical	2	Pass
		2535	-3.72	4.73	27.72	19.27	84.528	Vertical	2	Pass
		2560	-3.90	4.75	27.68	19.03	79.983	Vertical	2	Pass

		Radiated Power (EIRP) for Band 7								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
									Limit	
									(W)	
5.0MHz Band 16 QAM	1/#Mid	2502.5	-3.06	4.54	27.75	20.15	103.514	Horizontal	2	Pass
		2535	-2.75	4.69	27.72	20.28	106.660	Horizontal	2	Pass
		2567.5	-2.83	4.71	27.71	20.17	103.992	Horizontal	2	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-2.95	4.55	27.76	20.26	106.170	Horizontal	2	Pass
		2535	-2.96	4.69	27.72	20.07	101.625	Horizontal	2	Pass
		2565	-3.23	4.72	27.70	19.75	94.406	Horizontal	2	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-3.13	4.55	27.77	20.09	102.094	Horizontal	2	Pass
		2535	-3.10	4.69	27.72	19.93	98.401	Horizontal	2	Pass
		2562.5	-2.71	4.72	27.69	20.26	106.170	Horizontal	2	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-3.01	4.57	27.78	20.20	104.713	Horizontal	2	Pass
		2535	-2.68	4.73	27.72	20.31	107.399	Horizontal	2	Pass
		2560	-2.78	4.75	27.68	20.15	103.514	Horizontal	2	Pass
5.0MHz Band 16 QAM	1/#Mid	2502.5	-4.43	4.54	27.75	18.78	75.509	Vertical	2	Pass
		2535	-4.51	4.69	27.72	18.52	71.121	Vertical	2	Pass
		2567.5	-3.21	4.71	27.71	19.79	95.280	Vertical	2	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-3.32	4.55	27.76	19.89	97.499	Vertical	2	Pass
		2535	-3.76	4.69	27.72	19.27	84.528	Vertical	2	Pass
		2565	-3.80	4.72	27.70	19.18	82.794	Vertical	2	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-3.70	4.55	27.77	19.52	89.536	Vertical	2	Pass
		2535	-3.96	4.69	27.72	19.07	80.724	Vertical	2	Pass
		2562.5	-4.14	4.72	27.69	18.83	76.384	Vertical	2	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-4.69	4.57	27.78	18.52	71.121	Vertical	2	Pass
		2535	-4.44	4.73	27.72	18.55	71.614	Vertical	2	Pass
		2560	-3.55	4.75	27.68	19.38	86.696	Vertical	2	Pass

Note:

SG Level= Signal generator output

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

8.6 LTE BAND 12

		Radiated Power (ERP) for Band 12									
Mode	RB/RB SIZE	Frequency	Result								Conclusio n
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz Band QPSK	1/##Mid	699.7	5.58	1.91	19.21	2.15	20.73	118.304	Vertical	3	Pass
		707.5	5.50	1.91	19.26	2.15	20.70	117.490	Vertical	3	Pass
		715.3	5.28	1.93	19.34	2.15	20.54	113.240	Vertical	3	Pass
3.0MHz Band QPSK	1/##Mid	700.5	5.37	1.91	19.21	2.15	20.52	112.720	Vertical	3	Pass
		707.5	5.29	1.91	19.26	2.15	20.49	111.944	Vertical	3	Pass
		714.5	5.13	1.93	19.34	2.15	20.39	109.396	Vertical	3	Pass
5.0MHz Band QPSK	1/##Mid	701.5	5.64	1.91	19.23	2.15	20.81	120.504	Vertical	3	Pass
		707.5	5.55	1.91	19.26	2.15	20.75	118.850	Vertical	3	Pass
		713.5	5.34	1.92	19.33	2.15	20.60	114.815	Vertical	3	Pass
10.0MHz Band QPSK	1/##Mid	704	5.66	1.91	19.25	2.15	20.85	121.619	Vertical	3	Pass
		707.5	5.64	1.91	19.26	2.15	20.84	121.339	Vertical	3	Pass
		711	5.49	1.92	19.32	2.15	20.74	118.577	Vertical	3	Pass
1.4MHz Band QPSK	1/##Mid	699.7	4.50	1.91	19.21	2.15	19.65	92.257	Horizontal	3	Pass
		707.5	4.81	1.91	19.26	2.15	20.01	100.231	Horizontal	3	Pass
		715.3	4.65	1.93	19.34	2.15	19.91	97.949	Horizontal	3	Pass
3.0MHz Band QPSK	1/##Mid	700.5	3.88	1.91	19.21	2.15	19.03	79.983	Horizontal	3	Pass
		707.5	3.92	1.91	19.26	2.15	19.12	81.658	Horizontal	3	Pass
		714.5	4.06	1.93	19.34	2.15	19.32	85.507	Horizontal	3	Pass
5.0MHz Band QPSK	1/##Mid	701.5	4.43	1.91	19.23	2.15	19.60	91.201	Horizontal	3	Pass
		707.5	4.11	1.91	19.26	2.15	19.31	85.310	Horizontal	3	Pass
		713.5	4.44	1.92	19.33	2.15	19.70	93.325	Horizontal	3	Pass
10.0MHz Band QPSK	1/##Mid	704	4.66	1.91	19.25	2.15	19.85	96.605	Horizontal	3	Pass
		707.5	4.33	1.91	19.26	2.15	19.53	89.743	Horizontal	3	Pass
		711	4.52	1.92	19.32	2.15	19.77	94.842	Horizontal	3	Pass

		Radiated Power (ERP) for Band 12									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level	Cable Loss (dBm)	Antenna Factor (dB)	Correction	Max. EIRP	Max. EIRP	Polarization Of Max. ERP		
						(dB)	Average	Average		Limit	
							(dBm)	(mW)		(W)	
1.4MHz Band 16 QAM	1/#Mid	699.7	5.04	1.91	19.21	2.15	20.19	104.472	Vertical	3	Pass
		707.5	4.96	1.91	19.26	2.15	20.16	103.753	Vertical	3	Pass
		715.3	4.74	1.93	19.34	2.15	20.00	100.000	Vertical	3	Pass
3.0MHz Band 16 QAM	1/#Mid	700.5	4.83	1.91	19.21	2.15	19.98	99.541	Vertical	3	Pass
		707.5	4.75	1.91	19.26	2.15	19.95	98.855	Vertical	3	Pass
		714.5	4.59	1.93	19.34	2.15	19.85	96.605	Vertical	3	Pass
5.0MHz Band 16 QAM	1/#Mid	701.5	5.10	1.91	19.23	2.15	20.27	106.414	Vertical	3	Pass
		707.5	5.01	1.91	19.26	2.15	20.21	104.954	Vertical	3	Pass
		713.5	4.80	1.92	19.33	2.15	20.06	101.391	Vertical	3	Pass
10.0MHz Band 16 QAM	1/#Mid	704	5.12	1.91	19.25	2.15	20.31	107.399	Vertical	3	Pass
		707.5	5.10	1.91	19.26	2.15	20.30	107.152	Vertical	3	Pass
		711	4.95	1.92	19.32	2.15	20.20	104.713	Vertical	3	Pass
1.4MHz Band 16 QAM	1/#Mid	699.7	3.68	1.91	19.21	2.15	18.83	76.384	Horizontal	3	Pass
		707.5	3.70	1.91	19.26	2.15	18.90	77.625	Horizontal	3	Pass
		715.3	3.75	1.93	19.34	2.15	19.01	79.616	Horizontal	3	Pass
3.0MHz Band 16 QAM	1/#Mid	700.5	3.74	1.91	19.21	2.15	18.89	77.446	Horizontal	3	Pass
		707.5	3.85	1.91	19.26	2.15	19.05	80.353	Horizontal	3	Pass
		714.5	3.58	1.93	19.34	2.15	18.84	76.560	Horizontal	3	Pass
5.0MHz Band 16 QAM	1/#Mid	701.5	4.08	1.91	19.23	2.15	19.25	84.140	Horizontal	3	Pass
		707.5	3.92	1.91	19.26	2.15	19.12	81.658	Horizontal	3	Pass
		713.5	4.08	1.92	19.33	2.15	19.34	85.901	Horizontal	3	Pass
10.0MHz Band 16 QAM	1/#Mid	704	3.56	1.91	19.25	2.15	18.75	74.989	Horizontal	3	Pass
		707.5	3.33	1.91	19.26	2.15	18.53	71.285	Horizontal	3	Pass
		711	3.49	1.92	19.32	2.15	18.74	74.817	Horizontal	3	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)

ERP(dBm)=EIRP-2.15

8.7 LTE BAND 17

Radiated Power (ERP) for Band 17											
Mode	RB/RB SIZE	Frequency	Result								
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	Limit	Conclusion
										(W)	
5.0MHz Band QPSK	1/#Mid	706.5	5.31	1.91	19.23	2.15	20.48	111.686	Vertical	3	Pass
		710	5.17	1.91	19.26	2.15	20.37	108.893	Vertical	3	Pass
		713.5	5.07	1.92	19.33	2.15	20.33	107.895	Vertical	3	Pass
10.0MHz Band QPSK	1/#Mid	709	5.32	1.91	19.25	2.15	20.51	112.460	Vertical	3	Pass
		710	5.27	1.91	19.26	2.15	20.47	111.429	Vertical	3	Pass
		711	5.23	1.92	19.32	2.15	20.48	111.686	Vertical	3	Pass
5.0MHz Band QPSK	1/#Mid	706.5	3.88	1.91	19.23	2.15	19.05	80.353	Horizontal	3	Pass
		710	3.70	1.91	19.26	2.15	18.90	77.625	Horizontal	3	Pass
		713.5	4.11	1.92	19.33	2.15	19.37	86.497	Horizontal	3	Pass
10.0MHz Band QPSK	1/#Mid	709	4.92	1.91	19.25	2.15	20.11	102.565	Horizontal	3	Pass
		710	4.58	1.91	19.26	2.15	19.78	95.060	Horizontal	3	Pass
		711	3.67	1.92	19.32	2.15	18.92	77.983	Horizontal	3	Pass

		Radiated Power (ERP) for Band 17									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
										(W)	
5.0MHz Band 16 QAM	1/#Mid	706.5	4.54	1.91	19.23	2.15	19.71	93.541	Vertical	3	Pass
		710	4.45	1.91	19.26	2.15	19.65	92.257	Vertical	3	Pass
		713.5	4.25	1.92	19.33	2.15	19.51	89.331	Vertical	3	Pass
10.0MHz Band 16 QAM	1/#Mid	709	4.08	1.91	19.25	2.15	19.27	84.528	Vertical	3	Pass
		710	4.61	1.91	19.26	2.15	19.81	95.719	Vertical	3	Pass
		711	4.34	1.92	19.32	2.15	19.59	90.991	Vertical	3	Pass
5.0MHz Band 16 QAM	1/#Mid	706.5	3.63	1.91	19.23	2.15	18.80	75.858	Horizontal	3	Pass
		710	3.49	1.91	19.26	2.15	18.69	73.961	Horizontal	3	Pass
		713.5	3.08	1.92	19.33	2.15	18.34	68.234	Horizontal	3	Pass
10.0MHz Band 16 QAM	1/#Mid	709	3.18	1.91	19.25	2.15	18.37	68.707	Horizontal	3	Pass
		710	2.98	1.91	19.26	2.15	18.18	65.766	Horizontal	3	Pass
		711	3.22	1.92	19.32	2.15	18.47	70.307	Horizontal	3	Pass

Note:

ERP=EIRP-2.15

SG Level= Signal generator output

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

8.8 LTE BAND 25

		Radiated Power (EIRP) for Band 25								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP		
						Average	Average		Limit	
						(dBm)	(mW)		(W)	
1.4MHz Band QPSK	1/#Mid	1850.7	-4.57	3.12	27.58	19.89	97.499	Horizontal	2	Pass
		1882,5	-4.48	3.27	27.61	19.86	96.828	Horizontal	2	Pass
		1914.3	-4.64	3.29	27.63	19.70	93.325	Horizontal	2	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-4.80	3.13	27.61	19.68	92.897	Horizontal	2	Pass
		1882,5	-4.69	3.27	27.61	19.65	92.257	Horizontal	2	Pass
		1913.5	-4.77	3.30	27.62	19.55	90.157	Horizontal	2	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-4.53	3.13	27.63	19.97	99.312	Horizontal	2	Pass
		1882,5	-4.43	3.27	27.61	19.91	97.949	Horizontal	2	Pass
		1912.5	-4.54	3.30	27.60	19.76	94.624	Horizontal	2	Pass
10.0MHz Band QPSK	1/#Mid	1855	-4.48	3.15	27.64	20.01	100.231	Horizontal	2	Pass
		1882,5	-4.30	3.31	27.61	20.00	100.000	Horizontal	2	Pass
		1910	-4.36	3.33	27.59	19.90	97.724	Horizontal	2	Pass
15.0MHz Band QPSK	1/#Mid	1857.5	-5.85	3.15	27.65	18.65	73.282	Horizontal	2	Pass
		1882,5	-5.68	3.31	27.61	18.62	72.778	Horizontal	2	Pass
		1907.5	-5.82	3.33	27.57	18.42	69.502	Horizontal	2	Pass
20.0MHz Band QPSK	1/#Mid	1860	-6.03	3.17	27.66	18.46	70.146	Horizontal	2	Pass
		1882,5	-4.27	3.32	27.61	20.02	100.462	Horizontal	2	Pass
		1905	-4.08	3.36	27.56	20.12	102.802	Horizontal	2	Pass
1.4MHz Band QPSK	1/#Mid	1850.7	-5.60	3.12	27.58	18.86	76.913	Vertical	2	Pass
		1882,5	-5.34	3.27	27.61	19.00	79.433	Vertical	2	Pass
		1914.3	-5.48	3.29	27.63	18.86	76.913	Vertical	2	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-5.38	3.13	27.61	19.10	81.283	Vertical	2	Pass
		1882,5	-5.62	3.27	27.61	18.72	74.473	Vertical	2	Pass
		1913.5	-5.61	3.30	27.62	18.71	74.302	Vertical	2	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-5.39	3.13	27.63	19.11	81.470	Vertical	2	Pass
		1882,5	-5.94	3.27	27.61	18.40	69.183	Vertical	2	Pass
		1912.5	-5.25	3.30	27.60	19.05	80.353	Vertical	2	Pass
10.0MHz Band	1/#Mid	1855	-5.94	3.15	27.64	18.55	71.614	Vertical	2	Pass
		1882,5	-5.40	3.31	27.61	18.90	77.625	Vertical	2	Pass

QPSK		1910	-5.66	3.33	27.59	18.60	72.444	Vertical	2	Pass
15.0MHz	1/#Mid	1857.5	-6.17	3.15	27.65	18.33	68.077	Vertical	2	Pass
Band		1882,5	-5.48	3.31	27.61	18.82	76.208	Vertical	2	Pass
QPSK		1907.5	-5.22	3.33	27.57	19.02	79.799	Vertical	2	Pass
20.0MHz	1/#Mid	1860	-5.96	3.17	27.66	18.53	71.285	Vertical	2	Pass
Band		1882,5	-5.30	3.32	27.61	18.99	79.250	Vertical	2	Pass
QPSK		1905	-5.88	3.36	27.56	18.32	67.920	Vertical	2	Pass

		Radiated Power (EIRP) for Band 25								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP	Max. EIRP	Polarization Of Max. ERP		
						Average	Average		Limit	
						(dBm)	(mW)		(W)	
1.4MHz Band 16 QAM	1/#Mid	1850.7	-4.71	3.12	27.58	19.75	94.406	Horizontal	2	Pass
		1882,5	-4.62	3.27	27.61	19.72	93.756	Horizontal	2	Pass
		1914.3	-4.78	3.29	27.63	19.56	90.365	Horizontal	2	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-4.94	3.13	27.61	19.54	89.950	Horizontal	2	Pass
		1882,5	-4.83	3.27	27.61	19.51	89.331	Horizontal	2	Pass
		1913.5	-4.91	3.30	27.62	19.41	87.297	Horizontal	2	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-4.67	3.13	27.63	19.83	96.161	Horizontal	2	Pass
		1882,5	-4.57	3.27	27.61	19.77	94.842	Horizontal	2	Pass
		1912.5	-4.68	3.30	27.60	19.62	91.622	Horizontal	2	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-4.62	3.15	27.64	19.87	97.051	Horizontal	2	Pass
		1882,5	-4.44	3.31	27.61	19.86	96.828	Horizontal	2	Pass
		1910	-4.31	3.33	27.59	19.95	98.855	Horizontal	2	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-5.67	3.15	27.65	18.83	76.384	Horizontal	2	Pass
		1882,5	-5.91	3.31	27.61	18.39	69.024	Horizontal	2	Pass
		1907.5	-5.87	3.33	27.57	18.37	68.707	Horizontal	2	Pass
20.0MHz Band 16 QAM	1/#Mid	1860	-6.33	3.17	27.66	18.16	65.464	Horizontal	2	Pass
		1882,5	-5.38	3.32	27.61	18.91	77.804	Horizontal	2	Pass
		1905	-6.05	3.36	27.56	18.15	65.313	Horizontal	2	Pass
1.4MHz Band 16 QAM	1/#Mid	1850.7	-6.04	3.12	27.58	18.42	69.502	Vertical	2	Pass
		1882,5	-5.59	3.27	27.61	18.75	74.989	Vertical	2	Pass
		1914.3	-6.25	3.29	27.63	18.09	64.417	Vertical	2	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-6.06	3.13	27.61	18.42	69.502	Vertical	2	Pass
		1882,5	-5.94	3.27	27.61	18.40	69.183	Vertical	2	Pass
		1913.5	-5.90	3.30	27.62	18.42	69.502	Vertical	2	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-5.88	3.13	27.63	18.62	72.778	Vertical	2	Pass
		1882,5	-6.19	3.27	27.61	18.15	65.313	Vertical	2	Pass
		1912.5	-5.43	3.30	27.60	18.87	77.090	Vertical	2	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-6.18	3.15	27.64	18.31	67.764	Vertical	2	Pass
		1882,5	-5.50	3.31	27.61	18.80	75.858	Vertical	2	Pass
		1910	-5.31	3.33	27.59	18.95	78.524	Vertical	2	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-5.66	3.15	27.65	18.84	76.560	Vertical	2	Pass
		1882,5	-5.45	3.31	27.61	18.85	76.736	Vertical	2	Pass
		1907.5	-5.95	3.33	27.57	18.29	67.453	Vertical	2	Pass

20.0MHz		1860	-5.99	3.17	27.66	18.50	70.795	Vertical	2	Pass
Band 16	1/#Mid	1882,5	-5.57	3.32	27.61	18.72	74.473	Vertical	2	Pass
QAM		1905	-5.56	3.36	27.56	18.64	73.114	Vertical	2	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 26 A

		Radiated Power (ERP) for Band 26(814-824)									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz	6/0	814.7	-2.17	3.76	28.24	2.15	20.16	103.75	Horizontal	100	Pass
BW		819	-2.03	3.91	28.22	2.15	20.13	103.04	Horizontal	100	Pass
QPSK		823.3	-2.15	3.93	28.20	2.15	19.97	99.31	Horizontal	100	Pass
3.0MHz	15/0	815.5	-2.36	3.77	28.23	2.15	19.95	98.86	Horizontal	100	Pass
BW		819	-2.26	3.91	28.24	2.15	19.92	98.17	Horizontal	100	Pass
QPSK		822.5	-2.34	3.94	28.25	2.15	19.82	95.94	Horizontal	100	Pass
5.0MHz	25/0	816.5	-2.15	3.77	28.31	2.15	20.24	105.68	Horizontal	100	Pass
BW		819	-1.98	3.91	28.22	2.15	20.18	104.23	Horizontal	100	Pass
QPSK		821.5	-2.08	3.94	28.20	2.15	20.03	100.69	Horizontal	100	Pass
10.0MHz	50/0	819	-1.88	3.91	28.22	2.15	20.28	106.66	Horizontal	100	Pass
1.4MHz	6/0	814.7	-2.13	3.79	28.34	2.15	20.27	106.41	Vertical	100	Pass
BW		819	-1.95	3.95	28.22	2.15	20.17	103.99	Vertical	100	Pass
QPSK		823.3	-2.70	3.97	28.18	2.15	19.36	86.30	Vertical	100	Pass
3.0MHz	15/0	815.5	-3.70	3.77	28.23	2.15	18.61	72.61	Vertical	100	Pass
BW		819	-3.34	3.91	28.24	2.15	18.84	76.56	Vertical	100	Pass
QPSK		822.5	-3.34	3.94	28.25	2.15	18.82	76.21	Vertical	100	Pass
5.0MHz	25/0	816.5	-2.96	3.77	28.31	2.15	19.43	87.70	Vertical	100	Pass
BW		819	-3.12	3.91	28.22	2.15	19.04	80.17	Vertical	100	Pass
QPSK		821.5	-2.97	3.94	28.20	2.15	19.14	82.04	Vertical	100	Pass
10.0MHz	50/0	819	-3.33	3.91	28.22	2.15	18.83	76.38	Vertical	100	Pass

		Radiated Power (ERP) for Band 26(814-824)									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz BW 16 QAM	6/0	814.7	-2.41	3.76	28.24	2.15	19.92	98.17	Horizontal	100	Pass
		819	-2.27	3.91	28.22	2.15	19.89	97.50	Horizontal	100	Pass
		823.3	-2.39	3.93	28.20	2.15	19.73	93.97	Horizontal	100	Pass
3.0MHz BW 16 QAM	15/0	815.5	-2.60	3.77	28.23	2.15	19.71	93.54	Horizontal	100	Pass
		819	-2.50	3.91	28.24	2.15	19.68	92.90	Horizontal	100	Pass
		822.5	-2.58	3.94	28.25	2.15	19.58	90.78	Horizontal	100	Pass
5.0MHz BW 16 QAM	25/0	816.5	-2.39	3.77	28.31	2.15	20.00	100.00	Horizontal	100	Pass
		819	-2.22	3.91	28.22	2.15	19.94	98.63	Horizontal	100	Pass
		821.5	-2.32	3.94	28.20	2.15	19.79	95.28	Horizontal	100	Pass
10.0MHz BW 16 QAM	50/0	819	-2.14	3.91	28.24	2.15	20.04	100.93	Horizontal	100	Pass
1.4MHz BW 16 QAM	6/0	814.7	-2.37	3.79	28.34	2.15	20.03	100.69	Vertical	100	Pass
		819	-2.19	3.95	28.22	2.15	19.93	98.40	Vertical	100	Pass
		823.3	-3.77	3.97	28.18	2.15	18.29	67.45	Vertical	100	Pass
3.0MHz BW 16 QAM	15/0	815.5	-3.88	3.77	28.23	2.15	18.43	69.66	Vertical	100	Pass
		819	-3.13	3.91	28.24	2.15	19.05	80.35	Vertical	100	Pass
		822.5	-3.15	3.94	28.25	2.15	19.01	79.62	Vertical	100	Pass
5.0MHz BW 16 QAM	25/0	816.5	-3.36	3.77	28.31	2.15	19.03	79.98	Vertical	100	Pass
		819	-3.24	3.91	28.22	2.15	18.92	77.98	Vertical	100	Pass
		821.5	-3.75	3.94	28.20	2.15	18.36	68.55	Vertical	100	Pass
10.0MHz BW 16 QAM	50/0	819	-3.16	3.91	28.24	2.15	19.02	79.80	Vertical	100	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)

ERP(dBm)=EIRP-2.15

8.10 LTE BAND 26 B

		Radiated Power (ERP) for Band 26(824-849)									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
1.4MHz Band QPSK	6/0	824.7	2.56	2.01	19.68	2.15	18.08	64.27	Horizontal	7	Pass
		836.5	2.50	2.01	19.77	2.15	18.11	64.71	Horizontal	7	Pass
		848.3	2.44	2.02	19.82	2.15	18.09	64.42	Horizontal	7	Pass
3.0MHz Band QPSK	15/0	825.5	2.60	2.01	19.70	2.15	18.14	65.16	Horizontal	7	Pass
		836.5	2.23	2.01	19.77	2.15	17.84	60.81	Horizontal	7	Pass
		847.5	2.68	2.02	19.81	2.15	18.32	67.92	Horizontal	7	Pass
5.0MHz Band QPSK	25/0	826.5	2.86	2.01	19.71	2.15	18.41	69.34	Horizontal	7	Pass
		836.5	2.68	2.01	19.77	2.15	18.29	67.45	Horizontal	7	Pass
		846.5	2.05	2.02	19.79	2.15	17.67	58.48	Horizontal	7	Pass
10.0MHz Band QPSK	50/0	829	2.07	2.01	19.73	2.15	17.64	58.08	Horizontal	7	Pass
		836.5	2.19	2.01	19.77	2.15	17.80	60.26	Horizontal	7	Pass
		844	2.79	2.02	19.78	2.15	18.40	69.18	Horizontal	7	Pass
15.0MHz Band QPSK	75/0	831.5	1.88	2.01	19.73	2.15	17.45	55.59	Horizontal	7	Pass
		836.5	2.81	2.01	19.77	2.15	18.42	69.50	Horizontal	7	Pass
		841.5	2.54	2.02	19.78	2.15	18.15	65.31	Horizontal	7	Pass
1.4MHz Band QPSK	6/0	824.7	2.14	2.01	19.68	2.15	17.66	58.34	Vertical	7	Pass
		836.5	2.08	2.01	19.77	2.15	17.69	58.75	Vertical	7	Pass
		848.3	2.34	2.02	19.82	2.15	17.99	62.95	Vertical	7	Pass
3.0MHz Band QPSK	15/0	825.5	2.28	2.01	19.70	2.15	17.82	60.53	Vertical	7	Pass
		836.5	1.90	2.01	19.77	2.15	17.51	56.36	Vertical	7	Pass
		847.5	2.15	2.02	19.81	2.15	17.79	60.12	Vertical	7	Pass
5.0MHz Band QPSK	25/0	826.5	2.30	2.01	19.71	2.15	17.85	60.95	Vertical	7	Pass
		836.5	2.05	2.01	19.77	2.15	17.66	58.34	Vertical	7	Pass
		846.5	2.17	2.02	19.79	2.15	17.79	60.12	Vertical	7	Pass
10.0MHz Band QPSK	50/0	829	1.94	2.01	19.73	2.15	17.51	56.36	Vertical	7	Pass
		836.5	2.28	2.01	19.77	2.15	17.89	61.52	Vertical	7	Pass
		844	2.12	2.02	19.78	2.15	17.73	59.29	Vertical	7	Pass
15.0MHz Band QPSK	75/0	831.5	1.95	2.01	19.73	2.15	17.52	56.49	Vertical	7	Pass
		836.5	2.70	2.01	19.77	2.15	18.31	67.76	Vertical	7	Pass
		841.5	2.30	2.02	19.78	2.15	17.91	61.80	Vertical	7	Pass

		Radiated Power (ERP) for Band 26(824-849)									
Mode	RB/RB SIZE	Frequency	Result								Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Correction (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP		
										Limit	
										(W)	
1.4MHz Band 16 QAM	6/0	824.7	2.40	2.01	19.68	2.15	17.92	61.94	Horizontal	7	Pass
		836.5	1.63	2.01	19.77	2.15	17.24	52.97	Horizontal	7	Pass
		848.3	1.57	2.02	19.82	2.15	17.22	52.72	Horizontal	7	Pass
3.0MHz Band 16 QAM	15/0	825.5	1.66	2.01	19.70	2.15	17.20	52.48	Horizontal	7	Pass
		836.5	1.96	2.01	19.77	2.15	17.57	57.15	Horizontal	7	Pass
		847.5	1.66	2.02	19.81	2.15	17.30	53.70	Horizontal	7	Pass
5.0MHz Band 16 QAM	25/0	826.5	1.82	2.01	19.71	2.15	17.37	54.58	Horizontal	7	Pass
		836.5	1.79	2.01	19.77	2.15	17.40	54.95	Horizontal	7	Pass
		846.5	1.63	2.02	19.79	2.15	17.25	53.09	Horizontal	7	Pass
10.0MHz Band 16 QAM	50/0	829	2.03	2.01	19.73	2.15	17.60	57.54	Horizontal	7	Pass
		836.5	2.35	2.01	19.77	2.15	17.96	62.52	Horizontal	7	Pass
		844	1.59	2.02	19.78	2.15	17.20	52.48	Horizontal	7	Pass
15.0MHz Band QPSK	75/0	831.5	2.41	2.01	19.73	2.15	17.98	62.81	Horizontal	7	Pass
		836.5	1.59	2.01	19.77	2.15	17.20	52.48	Horizontal	7	Pass
		841.5	1.39	2.02	19.78	2.15	17.00	50.12	Horizontal	7	Pass
1.4MHz Band 16 QAM	6/0	824.7	1.91	2.01	19.68	2.15	17.43	55.34	Vertical	7	Pass
		836.5	2.30	2.01	19.77	2.15	17.91	61.80	Vertical	7	Pass
		848.3	2.05	2.02	19.82	2.15	17.70	58.88	Vertical	7	Pass
3.0MHz Band 16 QAM	15/0	825.5	1.85	2.01	19.70	2.15	17.39	54.83	Vertical	7	Pass
		836.5	1.67	2.01	19.77	2.15	17.28	53.46	Vertical	7	Pass
		847.5	2.27	2.02	19.81	2.15	17.91	61.80	Vertical	7	Pass
5.0MHz Band 16 QAM	25/0	826.5	1.54	2.01	19.71	2.15	17.09	51.17	Vertical	7	Pass
		836.5	1.98	2.01	19.77	2.15	17.59	57.41	Vertical	7	Pass
		846.5	1.60	2.02	19.79	2.15	17.22	52.72	Vertical	7	Pass
10.0MHz Band 16 QAM	50/0	829	2.01	2.01	19.73	2.15	17.58	57.28	Vertical	7	Pass
		836.5	2.23	2.01	19.77	2.15	17.84	60.81	Vertical	7	Pass
		844	1.61	2.02	19.78	2.15	17.22	52.72	Vertical	7	Pass

15.0MHz	75/0	831.5	1.55	2.01	19.73	2.15	17.12	51.52	Vertical	7	Pass
Band		836.5	1.48	2.01	19.77	2.15	17.09	51.17	Vertical	7	Pass
QPSK		841.5	1.74	2.02	19.78	2.15	17.35	54.33	Vertical	7	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)

ERP(dBm)=EIRP-2.15

8.11 LTE BAND 66

		Radiated Power (EIRP) for Band 66								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP	Polarization Of Max. ERP		
							Average		Limit	
							(mW)		(W)	
1.4MHz Band QPSK	1/#Mid	1710.7	-5.28	3.76	28.24	19.20	83.176	Horizontal	1	Pass
		1745	-5.14	3.91	28.22	19.17	82.604	Horizontal	1	Pass
		1779.3	-5.01	3.93	28.2	19.26	84.333	Horizontal	1	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-5.34	3.77	28.23	19.12	81.658	Horizontal	1	Pass
		1745	-5.25	3.91	28.24	19.08	80.910	Horizontal	1	Pass
		1778.5	-5.27	3.94	28.25	19.04	80.168	Horizontal	1	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-5.24	3.77	28.31	19.30	85.114	Horizontal	1	Pass
		1745	-4.92	3.91	28.22	19.39	86.896	Horizontal	1	Pass
		1777.5	-4.98	3.94	28.2	19.28	84.723	Horizontal	1	Pass
10.0MHz Band QPSK	1/#Mid	1715	-5.13	3.79	28.33	19.41	87.297	Horizontal	1	Pass
		1745	-4.86	3.95	28.22	19.41	87.297	Horizontal	1	Pass
		1775	-4.87	3.97	28.19	19.35	86.099	Horizontal	1	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-5.15	3.79	28.34	19.40	87.096	Horizontal	1	Pass
		1745	-4.96	3.95	28.22	19.31	85.310	Horizontal	1	Pass
		1772.5	-4.91	3.97	28.18	19.30	85.114	Horizontal	1	Pass
20.0MHz Band QPSK	1/#Mid	1720	-5.12	3.81	28.35	19.42	87.498	Horizontal	1	Pass
		1745	-4.86	3.96	28.22	19.40	87.096	Horizontal	1	Pass
		1770	-4.88	4	28.16	19.28	84.723	Horizontal	1	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-6.54	3.76	28.24	17.94	62.230	Vertical	1	Pass
		1745	-6.29	3.91	28.22	18.02	63.387	Vertical	1	Pass
		1779.3	-6.25	3.93	28.2	18.02	63.387	Vertical	1	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-6.35	3.77	28.23	18.11	64.714	Vertical	1	Pass
		1745	-5.65	3.91	28.24	18.68	73.790	Vertical	1	Pass
		1778.5	-6.02	3.94	28.25	18.29	67.453	Vertical	1	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-6.46	3.77	28.31	18.08	64.269	Vertical	1	Pass
		1745	-5.87	3.91	28.22	18.44	69.823	Vertical	1	Pass
		1777.5	-5.93	3.94	28.2	18.33	68.077	Vertical	1	Pass
10.0MHz Band	1/#Mid	1715	-6.28	3.79	28.34	18.27	67.143	Vertical	1	Pass
		1745	-5.88	3.95	28.22	18.39	69.024	Vertical	1	Pass

QPSK		1775	-5.57	3.97	28.18	18.64	73.114	Vertical	1	Pass
15.0MHz	1/#Mid	1717.5	-6.04	3.81	28.35	18.50	70.795	Vertical	1	Pass
Band		1745	-6.51	3.96	28.22	17.75	59.566	Vertical	1	Pass
QPSK		1772.5	-6.24	4	28.16	17.92	61.944	Vertical	1	Pass
20.0MHz	1/#Mid	1720	-6.53	3.79	28.34	18.02	63.387	Vertical	1	Pass
Band		1745	-5.74	3.95	28.22	18.53	71.285	Vertical	1	Pass
QPSK		1770	-6.48	3.97	28.18	17.73	59.293	Vertical	1	Pass

		Radiated Power (EIRP) for Band 66								
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP	Polarization Of Max. ERP		
							Average		Limit	
							(mW)		(W)	
1.4MHz Band 16 QAM	1/#Mid	1710.7	-6.56	3.76	28.24	17.92	61.944	Horizontal	1	Pass
		1745	-6.17	3.91	28.22	18.14	65.163	Horizontal	1	Pass
		1779.3	-6.35	3.93	28.2	17.92	61.944	Horizontal	1	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-6.95	3.77	28.23	17.51	56.364	Horizontal	1	Pass
		1745	-6.20	3.91	28.24	18.13	65.013	Horizontal	1	Pass
		1778.5	-6.49	3.94	28.25	17.82	60.534	Horizontal	1	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-6.37	3.77	28.31	18.17	65.615	Horizontal	1	Pass
		1745	-6.43	3.91	28.22	17.88	61.376	Horizontal	1	Pass
		1777.5	-6.10	3.94	28.2	18.16	65.464	Horizontal	1	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-6.42	3.79	28.33	18.12	64.863	Horizontal	1	Pass
		1745	-6.08	3.95	28.22	18.19	65.917	Horizontal	1	Pass
		1775	-6.40	3.97	28.19	17.82	60.534	Horizontal	1	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-6.41	3.79	28.34	18.14	65.163	Horizontal	1	Pass
		1745	-6.23	3.95	28.22	18.04	63.680	Horizontal	1	Pass
		1772.5	-6.02	3.97	28.18	18.19	65.917	Horizontal	1	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-6.24	3.81	28.35	18.30	67.608	Horizontal	1	Pass
		1745	-6.02	3.96	28.22	18.24	66.681	Horizontal	1	Pass
		1770	-5.96	4	28.16	18.20	66.069	Horizontal	1	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-6.64	3.76	28.24	17.84	60.814	Vertical	1	Pass
		1745	-7.99	3.91	28.22	16.32	42.855	Vertical	1	Pass
		1779.3	-6.39	3.93	28.2	17.88	61.376	Vertical	1	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-8.03	3.77	28.23	16.43	43.954	Vertical	1	Pass
		1745	-6.48	3.91	28.24	17.85	60.954	Vertical	1	Pass
		1778.5	-8.08	3.94	28.25	16.23	41.976	Vertical	1	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-7.77	3.77	28.31	16.77	47.534	Vertical	1	Pass
		1745	-7.95	3.91	28.22	16.36	43.251	Vertical	1	Pass
		1777.5	-7.64	3.94	28.2	16.62	45.920	Vertical	1	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-6.43	3.79	28.34	18.12	64.863	Vertical	1	Pass
		1745	-6.89	3.95	28.22	17.38	54.702	Vertical	1	Pass
		1775	-7.94	3.97	28.18	16.27	42.364	Vertical	1	Pass
15.0MHz	1/#Mid	1717.5	-8.28	3.81	28.35	16.26	42.267	Vertical	1	Pass

Band 16		1745	-6.27	3.96	28.22	17.99	62.951	Vertical	1	Pass
QAM		1772.5	-6.56	4	28.16	17.60	57.544	Vertical	1	Pass
20.0MHz	1/#Mid	1720	-7.97	3.79	28.34	16.58	45.499	Vertical	1	Pass
Band 16		1745	-7.34	3.95	28.22	16.93	49.317	Vertical	1	Pass
QAM		1770	-6.25	3.97	28.18	17.96	62.517	Vertical	1	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 and §90.691

LIMIT

§22.917 (e) and §24.238 and §90.691 (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 2/4/5/7/12/17/25/26/66

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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3701.4	-49.72	4.04	33.51	-20.25	-13	-7.25	Horizontal
3701.4	-45.45	4.04	33.51	-15.98	-13	-2.98	Vertical
5552.1	-48.14	5.24	35.84	-17.54	-13	-4.54	Vertical
5552.1	-52.67	5.24	35.84	-22.07	-13	-9.07	Horizontal
202.5	-40.30	1.43	16.02	-25.71	-13	-12.71	Vertical
438.8	-43.02	1.30	17.99	-26.33	-13	-13.33	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-45.74	4.04	33.56	-16.22	-13	-3.22	Horizontal
3760.0	-47.90	4.04	33.56	-18.38	-13	-5.38	Vertical
5640.0	-46.12	5.24	35.91	-15.45	-13	-2.45	Vertical
5640.0	-50.87	5.24	35.91	-20.20	-13	-7.20	Horizontal
202.3	-42.03	1.62	16.97	-26.68	-13	-13.68	Vertical
270.0	-42.08	1.74	15.98	-27.85	-13	-14.85	Horizontal
Test Results for High Channel 1909.3MHz							
3818.6	-48.44	4.04	34.00	-18.48	-13	-5.48	Horizontal
3818.6	-50.62	4.04	34.00	-20.66	-13	-7.66	Vertical
5727.9	-47.48	5.24	36.04	-16.68	-13	-3.68	Vertical
5727.9	-49.48	5.24	36.04	-18.68	-13	-5.68	Horizontal
210.0	-42.88	1.42	17.29	-27.01	-13	-14.01	Vertical
349.6	-42.84	1.50	17.90	-26.43	-13	-13.43	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3720.0	-48.36	4.07	33.54	-18.89	-13	-5.89	Horizontal
3720.0	-48.97	4.07	33.54	-19.50	-13	-6.50	Vertical
5580.0	-51.55	5.28	35.86	-20.97	-13	-7.97	Vertical
5580.0	-51.15	5.28	35.86	-20.57	-13	-7.57	Horizontal
187.0	-43.89	1.58	16.89	-28.57	-13	-15.57	Vertical
426.6	-34.27	1.76	17.26	-18.77	-13	-5.77	Horizontal
Test Results for Mid Channel 1880MHz							
3760.0	-45.14	4.04	33.56	-15.62	-13	-2.62	Horizontal
3760.0	-49.30	4.04	33.56	-19.78	-13	-6.78	Vertical
5640.0	-50.98	5.24	35.91	-20.31	-13	-7.31	Vertical
5640.0	-52.15	5.24	35.91	-21.48	-13	-8.48	Horizontal
195.6	-44.67	1.46	16.27	-29.86	-13	-16.86	Vertical
296.1	-44.63	1.59	15.15	-31.07	-13	-18.07	Horizontal
Test Results for High Channel 1900MHz							
3800.0	-45.09	4.04	34.00	-15.13	-13	-2.13	Horizontal
3800.0	-50.01	4.04	34.00	-20.05	-13	-7.05	Vertical
5700.0	-46.26	5.24	36.04	-15.46	-13	-2.46	Vertical
5700.0	-49.90	5.24	36.04	-19.10	-13	-6.10	Horizontal
208.3	-45.00	1.36	17.39	-28.96	-13	-15.96	Vertical
305.3	-35.98	1.66	15.39	-22.25	-13	-9.25	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-46.95	4.02	29.80	-21.17	-13	-8.17	Horizontal
3421.4	-52.91	4.02	29.80	-27.13	-13	-14.13	Vertical
5132.1	-45.55	5.24	35.84	-14.95	-13	-1.95	Vertical
5132.1	-53.74	5.24	35.84	-23.14	-13	-10.14	Horizontal
189.2	-42.22	1.68	16.04	-27.86	-13	-14.86	Vertical
433.9	-43.21	1.78	17.74	-27.25	-13	-14.25	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-49.70	4.03	30.00	-23.73	-13	-10.73	Horizontal
3465.0	-52.40	4.03	30.00	-26.43	-13	-13.43	Vertical
5197.5	-44.78	5.25	35.86	-14.17	-13	-1.17	Vertical
5197.5	-53.96	5.25	35.86	-23.35	-13	-10.35	Horizontal
199.7	-39.50	1.72	17.69	-23.53	-13	-10.53	Vertical
419.4	-35.91	1.62	16.02	-21.50	-13	-8.50	Horizontal
Test Results for High Channel 1754.3MHz							
3508.6	-44.33	4.05	30.01	-18.37	-13	-5.37	Horizontal
3508.6	-51.01	4.05	30.01	-25.05	-13	-12.05	Vertical
5262.9	-48.91	5.26	35.86	-18.31	-13	-5.31	Vertical
5262.9	-51.42	5.26	35.86	-20.82	-13	-7.82	Horizontal
198.2	-43.49	1.80	16.69	-28.60	-13	-15.60	Vertical
319.4	-41.35	1.75	16.66	-26.45	-13	-13.45	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-47.86	4.02	29.80	-22.08	-13	-9.08	Horizontal
3440.0	-45.36	4.02	29.80	-19.58	-13	-6.58	Vertical
5160.0	-47.77	5.24	35.84	-17.17	-13	-4.17	Vertical
5160.0	-49.55	5.24	35.84	-18.95	-13	-5.95	Horizontal
192.9	-39.83	1.57	17.26	-24.14	-13	-11.14	Vertical
402.5	-38.87	1.78	16.35	-24.30	-13	-11.30	Horizontal
Test Results for Mid Channel 1732.5MHz							
3465.0	-49.72	4.03	30.00	-23.75	-13	-10.75	Horizontal
3465.0	-47.82	4.03	30.00	-21.85	-13	-8.85	Vertical
5197.5	-44.71	5.25	35.86	-14.10	-13	-1.10	Vertical
5197.5	-51.85	5.25	35.86	-21.24	-13	-8.24	Horizontal
200.8	-36.60	1.44	17.95	-20.09	-13	-7.09	Vertical
240.7	-37.24	1.65	16.09	-22.80	-13	-9.80	Horizontal
Test Results for High Channel 1745MHz							
3490.0	-44.18	2.91	27.68	-19.41	-13	-6.41	Horizontal
3490.0	-50.00	2.91	27.68	-25.23	-13	-12.23	Vertical
5235.0	-48.05	5.26	35.86	-17.45	-13	-4.45	Vertical
5235.0	-53.05	5.26	35.86	-22.45	-13	-9.45	Horizontal
186.9	-41.31	1.61	16.85	-26.07	-13	-13.07	Vertical
321.0	-42.42	1.61	15.19	-28.84	-13	-15.84	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-48.80	2.78	27.50	-24.08	-13	-11.08	Horizontal
1649.4	-48.89	2.78	27.50	-24.17	-13	-11.17	Vertical
2474.1	-53.42	2.90	27.80	-28.52	-13	-15.52	Vertical
2474.1	-53.61	2.90	27.80	-28.71	-13	-15.71	Horizontal
192.2	-36.27	1.76	17.59	-20.44	-13	-7.44	Vertical
457.4	-38.76	1.63	15.87	-24.52	-13	-11.52	Horizontal
Test Results For Mid Channel 836.5MHz							
1673.0	-49.67	2.80	27.48	-24.99	-13	-11.99	Horizontal
1673.0	-53.37	2.80	27.48	-28.69	-13	-15.69	Vertical
2509.5	-51.65	2.91	27.70	-26.86	-13	-13.86	Vertical
2509.5	-51.97	2.91	27.70	-27.18	-13	-14.18	Horizontal
199.7	-34.53	1.61	15.68	-20.46	-13	-7.46	Vertical
286.8	-39.21	1.59	17.52	-23.29	-13	-10.29	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-48.00	2.82	27.43	-23.39	-13	-10.39	Horizontal
1696.6	-45.76	2.82	27.43	-21.15	-13	-8.15	Vertical
2544.9	-45.19	2.92	27.74	-20.37	-13	-7.37	Vertical
2544.9	-52.41	2.92	27.74	-27.59	-13	-14.59	Horizontal
187.4	-38.02	1.69	16.67	-23.03	-13	-10.03	Vertical
270.0	-41.49	1.70	17.18	-26.01	-13	-13.01	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1658.0	-44.78	2.78	27.50	-20.06	-13	-7.06	Horizontal
1658.0	-53.55	2.78	27.50	-28.83	-13	-15.83	Vertical
2487.0	-50.78	2.90	27.80	-25.88	-13	-12.88	Vertical
2487.0	-53.88	2.90	27.80	-28.98	-13	-15.98	Horizontal
190.5	-35.03	1.71	15.57	-21.17	-13	-8.17	Vertical
331.1	-40.26	1.34	16.40	-25.20	-13	-12.20	Horizontal
Test Results for Mid Channel 836.5MHz							
1673.0	-51.40	2.80	27.48	-26.72	-13	-13.72	Horizontal
1673.0	-46.58	2.80	27.48	-21.90	-13	-8.90	Vertical
2509.5	-46.43	2.91	27.70	-21.64	-13	-8.64	Vertical
2509.5	-52.83	2.91	27.70	-28.04	-13	-15.04	Horizontal
191.6	-35.60	1.44	17.04	-20.00	-13	-7.00	Vertical
426.5	-43.62	1.76	17.62	-27.76	-13	-14.76	Horizontal
Test Results for High Channel 844MHz							
1688.0	-50.07	2.82	27.43	-25.46	-13	-12.46	Horizontal
1688.0	-46.44	2.82	27.43	-21.83	-13	-8.83	Vertical
2532.0	-44.14	2.92	27.74	-19.32	-13	-6.32	Vertical
2532.0	-52.61	2.92	27.74	-27.79	-13	-14.79	Horizontal
203.4	-36.18	1.74	17.70	-20.22	-13	-7.22	Vertical
284.9	-38.34	1.41	17.46	-22.28	-13	-9.28	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.

9.4 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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5005.0	-63.50	5.23	35.81	-32.92	-25	-7.92	Horizontal
5005.0	-64.47	5.23	35.81	-33.89	-25	-8.89	Vertical
7507.5	-62.42	5.67	36.85	-31.24	-25	-6.24	Vertical
7507.5	-64.67	5.67	36.85	-33.49	-25	-8.49	Horizontal
196.4	-53.87	1.73	17.97	-37.63	-25	-12.63	Vertical
231.4	-52.62	1.38	15.11	-38.89	-25	-13.89	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-62.99	5.23	35.82	-32.40	-25	-7.40	Horizontal
5070.0	-61.60	5.23	35.82	-31.01	-25	-6.01	Vertical
7605.0	-64.66	5.67	36.85	-33.48	-25	-8.48	Vertical
7605.0	-64.88	5.67	36.85	-33.70	-25	-8.70	Horizontal
190.8	-51.86	1.77	16.17	-37.45	-25	-12.45	Vertical
310.0	-54.95	1.63	15.21	-41.37	-25	-16.37	Horizontal
Test Results for High Channel 2567.5MHz							
5135.0	-63.23	5.24	35.83	-32.64	-25	-7.64	Horizontal
5135.0	-61.03	5.24	35.83	-30.44	-25	-5.44	Vertical
7702.5	-60.96	5.68	36.87	-29.77	-25	-4.77	Vertical
7702.5	-64.81	5.68	36.87	-33.62	-25	-8.62	Horizontal
191.5	-45.29	1.58	17.56	-29.31	-25	-4.31	Vertical
371.8	-48.17	1.45	16.58	-33.04	-25	-8.04	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5020.0	-64.75	5.23	35.82	-34.16	-25	-9.16	Horizontal
5020.0	-64.37	5.23	35.82	-33.78	-25	-8.78	Vertical
7530.0	-60.77	5.67	36.86	-29.58	-25	-4.58	Vertical
7530.0	-61.98	5.67	36.86	-30.79	-25	-5.79	Horizontal
211.6	-54.15	1.63	15.76	-40.02	-25	-15.02	Vertical
442.8	-54.91	1.71	15.44	-41.18	-25	-16.18	Horizontal
Test Results for Mid Channel 2535MHz							
5070.0	-60.64	5.23	35.82	-30.05	-25	-5.05	Horizontal
5070.0	-62.49	5.23	35.82	-31.90	-25	-6.90	Vertical
7605.0	-60.52	5.67	36.85	-29.34	-25	-4.34	Vertical
7605.0	-59.42	5.67	36.85	-28.24	-25	-3.24	Horizontal
187.2	-50.40	1.79	16.84	-35.34	-25	-10.34	Vertical
308.6	-45.96	1.71	17.64	-30.03	-25	-5.03	Horizontal
Test Results for High Channel 2560MHz							
5120.0	-61.68	5.24	35.83	-31.09	-25	-6.09	Horizontal
5120.0	-60.85	5.24	35.83	-30.26	-25	-5.26	Vertical
7680.0	-61.85	5.70	36.88	-30.67	-25	-5.67	Vertical
7680.0	-61.42	5.70	36.88	-30.24	-25	-5.24	Horizontal
193.7	-47.03	1.79	16.84	-31.97	-25	-6.97	Vertical
329.4	-44.06	1.71	17.64	-28.13	-25	-3.13	Horizontal

Note: Spurious Emission Level = Spectrum Analyzer Read Value + Cable Loss+ Antenna Factor + 11.74

. Margin = Spurious Emission Level - Limit

. 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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1399.4	-48.11	2.60	27.20	-23.51	-13	-10.51	Horizontal
1399.4	-49.62	2.60	27.20	-25.02	-13	-12.02	Vertical
2099.1	-53.89	2.85	27.54	-29.20	-13	-16.20	Vertical
2099.1	-51.51	2.85	27.54	-26.82	-13	-13.82	Horizontal
206.1	-41.79	1.49	17.78	-25.50	-13	-12.50	Vertical
359.6	-42.08	1.36	17.33	-26.11	-13	-13.11	Horizontal
Test Results For Mid Channel 707.5MHz							
1415.0	-46.53	2.61	27.28	-21.86	-13	-8.86	Horizontal
1415.0	-48.12	2.61	27.28	-23.45	-13	-10.45	Vertical
2122.5	-53.14	2.87	27.59	-28.42	-13	-15.42	Vertical
2122.5	-50.04	2.87	27.59	-25.32	-13	-12.32	Horizontal
182.2	-44.00	1.73	15.74	-29.99	-13	-16.99	Vertical
274.4	-43.16	1.62	15.79	-28.99	-13	-15.99	Horizontal
Test Results for High Channel 715.3MHz							
1430.6	-50.85	2.63	27.28	-26.20	-13	-13.20	Horizontal
1430.6	-44.23	2.63	27.28	-19.58	-13	-6.58	Vertical
2145.9	-50.36	2.88	27.60	-25.64	-13	-12.64	Vertical
2145.9	-50.49	2.88	27.60	-25.77	-13	-12.77	Horizontal
204.5	-37.75	1.61	18.00	-21.36	-13	-8.36	Vertical
445.0	-36.87	1.45	15.49	-22.84	-13	-9.84	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1408.0	-47.79	2.61	27.26	-23.14	-13	-10.14	Horizontal
1408.0	-45.84	2.61	27.26	-21.19	-13	-8.19	Vertical
2112.0	-44.59	2.87	27.58	-19.88	-13	-6.88	Vertical
2112.0	-49.42	2.87	27.58	-24.71	-13	-11.71	Horizontal
184.0	-39.78	1.31	16.97	-24.12	-13	-11.12	Vertical
254.6	-42.42	1.65	16.70	-27.37	-13	-14.37	Horizontal
Test Results for Mid Channel 707.5MHz							
1415.0	-49.98	2.61	27.28	-25.31	-13	-12.31	Horizontal
1415.0	-53.23	2.61	27.28	-28.56	-13	-15.56	Vertical
2122.5	-44.98	2.87	27.59	-20.26	-13	-7.26	Vertical
2122.5	-50.06	2.87	27.59	-25.34	-13	-12.34	Horizontal
204.5	-44.35	1.72	17.99	-28.08	-13	-15.08	Vertical
276.7	-42.78	1.73	17.94	-26.57	-13	-13.57	Horizontal
Test Results for High Channel 711MHz							
1422.0	-46.64	2.62	27.28	-21.98	-13	-8.98	Horizontal
1422.0	-51.51	2.62	27.28	-26.85	-13	-13.85	Vertical
2133.0	-48.40	2.87	27.60	-23.67	-13	-10.67	Vertical
2133.0	-51.45	2.87	27.60	-26.72	-13	-13.72	Horizontal
207.4	-41.14	1.58	15.93	-26.79	-13	-13.79	Vertical
264.9	-35.60	1.36	15.59	-21.37	-13	-8.37	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1413.0	-50.64	2.61	27.28	-25.97	-13	-12.97	Horizontal
1413.0	-49.02	2.61	27.28	-24.35	-13	-11.35	Vertical
2119.5	-50.85	2.87	27.59	-26.13	-13	-13.13	Vertical
2119.5	-50.06	2.87	27.59	-25.34	-13	-12.34	Horizontal
207.8	-44.23	1.71	16.15	-29.79	-13	-16.79	Vertical
399.1	-44.28	1.41	17.32	-28.37	-13	-15.37	Horizontal
Test Results For Mid Channel 710MHz							
1420.0	-53.32	2.62	27.30	-28.64	-13	-15.64	Horizontal
1420.0	-44.44	2.62	27.30	-19.76	-13	-6.76	Vertical
2130.0	-48.06	2.87	27.62	-23.31	-13	-10.31	Vertical
2130.0	-52.11	2.87	27.62	-27.36	-13	-14.36	Horizontal
200.2	-40.99	1.42	15.25	-27.17	-13	-14.17	Vertical
378.2	-36.64	1.36	17.19	-20.81	-13	-7.81	Horizontal
Test Results for High Channel 713.5MHz							
1427.0	-52.00	2.66	27.28	-27.38	-13	-14.38	Horizontal
1427.0	-51.62	2.66	27.28	-27.00	-13	-14.00	Vertical
2140.5	-53.20	2.88	27.60	-28.48	-13	-15.48	Vertical
2140.5	-49.17	2.88	27.60	-24.45	-13	-11.45	Horizontal
201.8	-41.11	1.32	17.29	-25.14	-13	-12.14	Vertical
358.5	-38.32	1.72	16.89	-23.15	-13	-10.15	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1418.0	-48.73	2.62	27.30	-24.05	-13	-11.05	Horizontal
1418.0	-50.27	2.62	27.30	-25.59	-13	-12.59	Vertical
2127.0	-51.18	2.87	27.62	-26.43	-13	-13.43	Vertical
2127.0	-51.37	2.87	27.62	-26.62	-13	-13.62	Horizontal
186.3	-44.06	1.35	16.91	-28.50	-13	-15.50	Vertical
398.4	-42.65	1.62	16.31	-27.96	-13	-14.96	Horizontal
Test Results for Mid Channel 710MHz							
1420.0	-48.59	2.62	27.30	-23.91	-13	-10.91	Horizontal
1420.0	-49.10	2.62	27.30	-24.42	-13	-11.42	Vertical
2130.0	-45.35	2.87	27.62	-20.60	-13	-7.60	Vertical
2130.0	-50.18	2.87	27.62	-25.43	-13	-12.43	Horizontal
185.8	-34.02	1.51	17.14	-18.39	-13	-5.39	Vertical
431.5	-37.46	1.77	16.88	-22.35	-13	-9.35	Horizontal
Test Results for High Channel 711MHz							
1422.0	-52.88	2.62	27.30	-28.20	-13	-15.20	Horizontal
1422.0	-48.17	2.62	27.30	-23.49	-13	-10.49	Vertical
2133.0	-48.12	2.87	27.62	-23.37	-13	-10.37	Vertical
2133.0	-50.64	2.87	27.62	-25.89	-13	-12.89	Horizontal
208.3	-38.22	1.78	15.95	-24.05	-13	-11.05	Vertical
286.9	-42.31	1.34	17.95	-25.71	-13	-12.71	Horizontal

Note: Spurious Emission Level = Spectrum Analyzer Read Value + Cable Loss+ Antenna Factor + 11.74

. Margin = Spurious Emission Level - Limit

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

9.7 LTE BAND 25

QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

Test Results for Low Channel 1710.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3701.4	-47.83	4.02	29.80	-22.05	-13	-9.05	Horizontal
3701.4	-45.98	4.02	29.80	-20.20	-13	-7.20	Vertical
5552.1	-46.09	5.24	35.84	-15.49	-13	-2.49	Vertical
5552.1	-46.37	5.24	35.84	-15.77	-13	-2.77	Horizontal
93.9	-32.28	1.59	15.11	-18.76	-13	-5.76	Vertical
119.7	-33.18	1.80	15.61	-19.37	-13	-6.37	Horizontal
Test Results for Mid Channel 1732.5MHz							
3765.0	-48.87	4.03	30.00	-22.90	-13	-9.90	Horizontal
3765.0	-42.33	4.03	30.00	-16.36	-13	-3.36	Vertical
5647.5	-48.50	5.25	35.86	-17.89	-13	-4.89	Vertical
5647.5	-49.70	5.25	35.86	-19.09	-13	-6.09	Horizontal
166.1	-32.20	1.37	15.62	-17.95	-13	-4.95	Vertical
274.4	-33.47	1.55	17.51	-17.51	-13	-4.51	Horizontal
Test Results for High Channel 1754.3MHz							
3828.6	-49.44	4.05	30.01	-23.48	-13	-10.48	Horizontal
3828.6	-44.64	4.05	30.01	-18.68	-13	-5.68	Vertical
5742.9	-48.19	5.26	35.86	-17.59	-13	-4.59	Vertical
5742.9	-46.23	5.26	35.86	-15.63	-13	-2.63	Horizontal
108.6	-34.81	1.66	17.19	-19.28	-13	-6.28	Vertical
138.7	-32.57	1.35	17.94	-15.98	-13	-2.98	Horizontal

QPSK EIRP POWER FOR LTE BAND 25 (20MHZ BANDWIDTH)

Test Results for Low Channel 1720MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3720.0	-47.29	4.02	29.80	-21.51	-13	-8.51	Horizontal
3720.0	-43.43	4.02	29.80	-17.65	-13	-4.65	Vertical
5580.0	-48.87	5.24	35.84	-18.27	-13	-5.27	Vertical
5580.0	-47.83	5.24	35.84	-17.23	-13	-4.23	Horizontal
146.2	-34.66	1.70	15.24	-21.12	-13	-8.12	Vertical
215.4	-32.44	1.42	16.58	-17.28	-13	-4.28	Horizontal
Test Results for Mid Channel 1732.5MHz							
3765.0	-48.75	4.03	30.00	-22.78	-13	-9.78	Horizontal
3765.0	-46.10	4.03	30.00	-20.13	-13	-7.13	Vertical
5647.5	-46.25	5.25	35.86	-15.64	-13	-2.64	Vertical
5647.5	-46.14	5.25	35.86	-15.53	-13	-2.53	Horizontal
132.2	-32.12	1.64	16.16	-17.60	-13	-4.60	Vertical
133.3	-32.79	1.62	17.37	-17.04	-13	-4.04	Horizontal
Test Results for High Channel 1745MHz							
3810.0	-47.73	2.91	27.68	-22.96	-13	-9.96	Horizontal
3810.0	-46.66	2.91	27.68	-21.89	-13	-8.89	Vertical
5715.0	-47.87	5.26	35.86	-17.27	-13	-4.27	Vertical
5715.0	-47.89	5.26	35.86	-17.29	-13	-4.29	Horizontal
212.6	-32.05	1.49	15.29	-18.25	-13	-5.25	Vertical
275.8	-32.59	1.79	16.42	-17.96	-13	-4.96	Horizontal

9.8 LTE BAND 26 A

QPSK EIRP POWER FOR LTE BAND 26A(814MHz~824MHz) (1.4MHZ BANDWIDTH)

Test Results for Low Channel 814.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1629.4	-47.22	2.78	27.50	-22.50	-13	-9.50	Horizontal
1629.4	-47.91	2.78	27.50	-23.19	-13	-10.19	Vertical
2444.1	-48.86	2.90	27.80	-23.96	-13	-10.96	Vertical
2444.1	-47.88	2.90	27.80	-22.98	-13	-9.98	Horizontal
229.6	-33.90	1.54	16.98	-18.46	-13	-5.46	Vertical
83.3	-34.69	1.47	15.82	-20.34	-13	-7.34	Horizontal
Test Results For Mid Channel 819MHz							
1638.0	-48.68	2.80	27.48	-24.00	-13	-11.00	Horizontal
1638.0	-48.70	2.80	27.48	-24.02	-13	-11.02	Vertical
2457.0	-48.82	2.91	27.70	-24.03	-13	-11.03	Vertical
2457.0	-48.93	2.91	27.70	-24.14	-13	-11.14	Horizontal
168.2	-32.22	1.74	16.19	-17.77	-13	-4.77	Vertical
92.9	-32.98	1.46	15.43	-19.01	-13	-6.01	Horizontal
Test Results for High Channel 823.3MHz							
1646.6	-49.55	2.82	27.43	-24.94	-13	-11.94	Horizontal
1646.6	-43.89	2.82	27.43	-19.28	-13	-6.28	Vertical
2469.9	-46.41	2.92	27.74	-21.59	-13	-8.59	Vertical
2469.9	-46.05	2.92	27.74	-21.23	-13	-8.23	Horizontal
213.1	-33.96	1.67	17.05	-18.58	-13	-5.58	Vertical
121.7	-34.43	1.42	16.12	-19.73	-13	-6.73	Horizontal

QPSK EIRP POWER FOR LTE BAND 26A(814MHz~824MHz) (10MHZ BANDWIDTH)

Test Results for Channel 819MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1638.0	-46.95	2.78	27.50	-22.23	-13	-9.23	Horizontal
1638.0	-46.26	2.78	27.50	-21.54	-13	-8.54	Vertical
2457.0	-48.32	2.90	27.80	-23.42	-13	-10.42	Vertical
2457.0	-48.27	2.90	27.80	-23.37	-13	-10.37	Horizontal
253.7	-35.00	1.43	17.34	-19.09	-13	-6.09	Vertical
256.8	-33.32	1.56	15.71	-19.17	-13	-6.17	Horizontal

9.9 LTE BAND 26 B

QPSK EIRP POWER FOR LTE BAND 26B(824MHz~849MHz) (1.4MHZ BANDWIDTH)

Test Results for Low Channel 824.7MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1649.4	-49.50	2.78	27.50	-24.78	-13	-11.78	Horizontal
1649.4	-49.49	2.78	27.50	-24.77	-13	-11.77	Vertical
2474.1	-47.30	2.90	27.80	-22.40	-13	-9.40	Vertical
2474.1	-47.76	2.90	27.80	-22.86	-13	-9.86	Horizontal
237.0	-33.99	1.33	17.34	-17.98	-13	-4.98	Vertical
180.5	-32.20	1.47	16.80	-16.87	-13	-3.87	Horizontal
Test Results For Mid Channel 836.5MHz							
1673.0	-46.36	2.80	27.48	-21.68	-13	-8.68	Horizontal
1673.0	-42.56	2.80	27.48	-17.88	-13	-4.88	Vertical
2509.5	-49.56	2.91	27.70	-24.77	-13	-11.77	Vertical
2509.5	-48.57	2.91	27.70	-23.78	-13	-10.78	Horizontal
140.8	-34.61	1.75	15.46	-20.90	-13	-7.90	Vertical
90.6	-32.42	1.52	16.14	-17.80	-13	-4.80	Horizontal
Test Results for High Channel 848.3MHz							
1696.6	-48.14	2.82	27.43	-23.53	-13	-10.53	Horizontal
1696.6	-49.27	2.82	27.43	-24.66	-13	-11.66	Vertical
2544.9	-47.82	2.92	27.74	-23.00	-13	-10.00	Vertical
2544.9	-48.33	2.92	27.74	-23.51	-13	-10.51	Horizontal
171.4	-33.31	1.67	16.09	-18.89	-13	-5.89	Vertical
247.2	-33.43	1.80	17.55	-17.68	-13	-4.68	Horizontal

QPSK EIRP POWER FOR LTE BAND 26B(824MHz~849MHz) (15MHZ BANDWIDTH)

Test Results for Low Channel 831.5MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1663.0	-47.64	2.78	27.50	-22.92	-13	-9.92	Horizontal
1663.0	-46.83	2.78	27.50	-22.11	-13	-9.11	Vertical
2494.5	-49.84	2.90	27.80	-24.94	-13	-11.94	Vertical
2494.5	-48.87	2.90	27.80	-23.97	-13	-10.97	Horizontal
255.4	-33.31	1.52	15.72	-19.11	-13	-6.11	Vertical
163.1	-32.82	1.40	17.03	-17.19	-13	-4.19	Horizontal
Test Results for Mid Channel 836.5MHz							
1673.0	-46.43	2.80	27.48	-21.75	-13	-8.75	Horizontal
1673.0	-44.90	2.80	27.48	-20.22	-13	-7.22	Vertical
2509.5	-49.54	2.91	27.70	-24.75	-13	-11.75	Vertical
2509.5	-48.59	2.91	27.70	-23.80	-13	-10.80	Horizontal
227.1	-32.41	1.74	16.38	-17.77	-13	-4.77	Vertical
101.3	-32.05	1.79	15.20	-18.64	-13	-5.64	Horizontal
Test Results for High Channel 841.5MHz							
1683.0	-46.01	2.82	27.43	-21.40	-13	-8.40	Horizontal
1683.0	-45.07	2.82	27.43	-20.46	-13	-7.46	Vertical
2524.5	-46.83	2.92	27.74	-22.01	-13	-9.01	Vertical
2524.5	-47.28	2.92	27.74	-22.46	-13	-9.46	Horizontal
261.1	-32.35	1.78	17.44	-16.69	-13	-3.69	Vertical
120.1	-32.64	1.70	15.93	-18.41	-13	-5.41	Horizontal

9.10 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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3421.4	-47.30	4.02	29.80	-21.52	-13	-8.52	Horizontal
3421.4	-45.11	4.02	29.80	-19.33	-13	-6.33	Vertical
5132.1	-54.03	5.24	35.84	-23.43	-13	-10.43	Vertical
5132.1	-50.94	5.24	35.84	-20.34	-13	-7.34	Horizontal
112.6	-46.61	1.52	15.57	-32.56	-13	-19.56	Vertical
220.5	-50.25	1.33	17.14	-34.44	-13	-21.44	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-45.10	4.03	30.00	-19.13	-13	-6.13	Horizontal
3490.0	-52.28	4.03	30.00	-26.31	-13	-13.31	Vertical
5235.0	-49.86	5.25	35.86	-19.25	-13	-6.25	Vertical
5235.0	-51.20	5.25	35.86	-20.59	-13	-7.59	Horizontal
157.3	-49.19	1.53	17.13	-33.59	-13	-20.59	Vertical
213.1	-50.91	1.41	15.95	-36.37	-13	-23.37	Horizontal
Test Results for High Channel 1779.3MHz							
3558.6	-48.56	4.05	30.01	-22.60	-13	-9.60	Horizontal
3558.6	-44.41	4.05	30.01	-18.45	-13	-5.45	Vertical
5337.9	-54.39	5.26	35.86	-23.79	-13	-10.79	Vertical
5337.9	-47.44	5.26	35.86	-16.84	-13	-3.84	Horizontal
170.6	-47.14	1.44	15.51	-33.07	-13	-20.07	Vertical
169.0	-47.66	1.78	15.76	-33.68	-13	-20.68	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 Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
3440.0	-45.57	4.02	29.80	-19.79	-13	-6.79	Horizontal
3440.0	-54.14	4.02	29.80	-28.36	-13	-15.36	Vertical
5160.0	-51.06	5.24	35.84	-20.46	-13	-7.46	Vertical
5160.0	-48.51	5.24	35.84	-17.91	-13	-4.91	Horizontal
268.8	-48.18	1.62	17.02	-32.78	-13	-19.78	Vertical
161.4	-52.02	1.32	17.31	-36.03	-13	-23.03	Horizontal
Test Results for Mid Channel 1745MHz							
3490.0	-53.33	4.03	30.00	-27.36	-13	-14.36	Horizontal
3490.0	-53.42	4.03	30.00	-27.45	-13	-14.45	Vertical
5235.0	-51.37	5.25	35.86	-20.76	-13	-7.76	Vertical
5235.0	-47.80	5.25	35.86	-17.19	-13	-4.19	Horizontal
159.9	-53.43	1.45	15.17	-39.71	-13	-26.71	Vertical
172.1	-45.85	1.48	17.82	-29.51	-13	-16.51	Horizontal
Test Results for High Channel 1770MHz							
3540.0	-52.57	2.91	27.68	-27.80	-13	-14.80	Horizontal
3540.0	-50.57	2.91	27.68	-25.80	-13	-12.80	Vertical
5310.0	-51.66	5.26	35.86	-21.06	-13	-8.06	Vertical
5310.0	-47.83	5.26	35.86	-17.23	-13	-4.23	Horizontal
197.3	-53.19	1.76	16.38	-38.57	-13	-25.57	Vertical
158.5	-47.00	1.43	17.13	-31.30	-13	-18.30	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, §90.213

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 3.29V, Normal, DC 3.87V and High voltage, DC 4.45V.

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 2/4/5/7/12/17/25/26/66

RESULTS

See the following pages.

10.1 LTE BAND 2

Band 2 QPSK, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1880	13.1	0.006981	2.5
3.87	1880	14.0	0.007427	2.5
4.45	1880	13.5	0.007166	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1880	12.3	0.006553	2.5
Extreme (50C)	1880	12.0	0.006396	2.5
Extreme (40C)	1880	13.8	0.007360	2.5
Extreme (30C)	1880	13.8	0.007335	2.5
Extreme (10C)	1880	14.2	0.007533	2.5
Extreme (0C)	1880	12.1	0.006428	2.5
Extreme (-10C)	1880	13.5	0.007158	2.5
Extreme (-20C)	1880	14.0	0.007466	2.5
Extreme (-30C)	1880	14.2	0.007555	2.5

Band 2 16QAM, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1880	9.9	0.005290	2.5
3.87	1880	9.1	0.004860	2.5
4.45	1880	8.1	0.004329	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1880	9.6	0.005101	2.5
Extreme (50C)	1880	8.7	0.004645	2.5
Extreme (40C)	1880	8.0	0.004254	2.5
Extreme (30C)	1880	9.3	0.004970	2.5
Extreme (10C)	1880	9.3	0.004948	2.5
Extreme (0C)	1880	8.0	0.004280	2.5
Extreme (-10C)	1880	8.6	0.004595	2.5
Extreme (-20C)	1880	9.3	0.004969	2.5
Extreme (-30C)	1880	8.5	0.004504	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

Band 4 QPSK, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1732.5	9.2	0.005323	2.5
3.87	1732.5	8.6	0.004986	2.5
4.45	1732.5	8.9	0.005132	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1732.5	8.0	0.004643	2.5
Extreme (50C)	1732.5	9.0	0.005174	2.5
Extreme (40C)	1732.5	7.5	0.004339	2.5
Extreme (30C)	1732.5	5.6	0.003210	2.5
Extreme (10C)	1732.5	7.1	0.004104	2.5
Extreme (0C)	1732.5	9.4	0.005422	2.5
Extreme (-10C)	1732.5	8.7	0.005012	2.5
Extreme (-20C)	1732.5	7.2	0.004183	2.5
Extreme (-30C)	1732.5	8.5	0.004897	2.5

Band 4 16QAM, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1732.5	9.4	0.005442	2.5
3.87	1732.5	8.9	0.005109	2.5
4.45	1732.5	7.9	0.004578	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1732.5	9.8	0.005652	2.5
Extreme (50C)	1732.5	9.2	0.005314	2.5
Extreme (40C)	1732.5	8.2	0.004708	2.5
Extreme (30C)	1732.5	8.5	0.004914	2.5
Extreme (10C)	1732.5	9.0	0.005218	2.5
Extreme (0C)	1732.5	8.5	0.004923	2.5
Extreme (-10C)	1732.5	9.4	0.005434	2.5
Extreme (-20C)	1732.5	8.5	0.004915	2.5
Extreme (-30C)	1732.5	8.0	0.004626	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

Band 5 QPSK, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	836.5	5.9	0.007109	2.5
3.87	836.5	7.0	0.008328	2.5
4.45	836.5	4.5	0.005359	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	836.5	6.1	0.007341	2.5
Extreme (50C)	836.5	5.8	0.006987	2.5
Extreme (40C)	836.5	5.8	0.006880	2.5
Extreme (30C)	836.5	6.3	0.007572	2.5
Extreme (10C)	836.5	5.2	0.006179	2.5
Extreme (0C)	836.5	5.0	0.005957	2.5
Extreme (-10C)	836.5	5.6	0.006718	2.5
Extreme (-20C)	836.5	6.0	0.007160	2.5
Extreme (-30C)	836.5	6.6	0.007853	2.5

Band 5 16QAM, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	836.5	5.8	0.006899	2.5
3.87	836.5	6.3	0.007565	2.5
4.45	836.5	4.7	0.005573	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	836.5	6.2	0.007411	2.5
Extreme (50C)	836.5	6.3	0.007478	2.5
Extreme (40C)	836.5	6.5	0.007757	2.5
Extreme (30C)	836.5	6.4	0.007598	2.5
Extreme (10C)	836.5	5.5	0.006588	2.5
Extreme (0C)	836.5	5.6	0.006696	2.5
Extreme (-10C)	836.5	5.3	0.006376	2.5
Extreme (-20C)	836.5	6.6	0.007858	2.5
Extreme (-30C)	836.5	6.5	0.007812	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

Band 7 QPSK, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	2535	10.2	0.004024	2.5
3.87	2535	8.6	0.003380	2.5
4.45	2535	8.6	0.003374	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	2535	9.0	0.003539	2.5
Extreme (50C)	2535	8.9	0.003528	2.5
Extreme (40C)	2535	8.8	0.003487	2.5
Extreme (30C)	2535	8.6	0.003407	2.5
Extreme (10C)	2535	8.3	0.003281	2.5
Extreme (0C)	2535	8.9	0.003492	2.5
Extreme (-10C)	2535	9.3	0.003682	2.5
Extreme (-20C)	2535	9.2	0.003631	2.5
Extreme (-30C)	2535	8.0	0.003146	2.5

Band 7 16QAM, (20MHz BANDWIDTH RB size 100 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	2535	7.2	0.002830	2.5
3.87	2535	6.8	0.002682	2.5
4.45	2535	5.9	0.002310	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	2535	6.5	0.002564	2.5
Extreme (50C)	2535	5.3	0.002073	2.5
Extreme (40C)	2535	5.3	0.002085	2.5
Extreme (30C)	2535	6.7	0.002640	2.5
Extreme (10C)	2535	6.2	0.002444	2.5
Extreme (0C)	2535	5.0	0.001960	2.5
Extreme (-10C)	2535	5.5	0.002184	2.5
Extreme (-20C)	2535	6.3	0.002470	2.5
Extreme (-30C)	2535	5.7	0.002236	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

Band 12 QPSK, (10MHz BANDWIDTH RB size 50 RB Offset 0

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	707.5	8.4	0.011909	2.5
3.87	707.5	10.0	0.014203	2.5
4.45	707.5	8.2	0.011585	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	707.5	8.3	0.011789	2.5
Extreme (50C)	707.5	7.2	0.010181	2.5
Extreme (40C)	707.5	7.4	0.010414	2.5
Extreme (30C)	707.5	8.7	0.012321	2.5
Extreme (10C)	707.5	7.7	0.010827	2.5
Extreme (0C)	707.5	9.1	0.012866	2.5
Extreme (-10C)	707.5	8.8	0.012500	2.5
Extreme (-20C)	707.5	9.4	0.013238	2.5
Extreme (-30C)	707.5	7.5	0.010629	2.5

Band 12 16QAM, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	707.5	7.7	0.010911	2.5
3.87	707.5	8.8	0.012407	2.5
4.45	707.5	7.3	0.010255	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	707.5	8.7	0.012290	2.5
Extreme (50C)	707.5	8.7	0.012332	2.5
Extreme (40C)	707.5	9.1	0.012878	2.5
Extreme (30C)	707.5	8.1	0.011511	2.5
Extreme (10C)	707.5	9.0	0.012673	2.5
Extreme (0C)	707.5	7.1	0.010038	2.5
Extreme (-10C)	707.5	7.4	0.010466	2.5
Extreme (-20C)	707.5	9.4	0.013325	2.5
Extreme (-30C)	707.5	8.8	0.012384	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

Band 17 QPSK, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	710.0	9.7	0.013646	2.5
3.87	710.0	9.1	0.012780	2.5
4.45	710.0	8.5	0.012012	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	710.0	10.2	0.014320	2.5
Extreme (50C)	710.0	9.3	0.013152	2.5
Extreme (40C)	710.0	8.4	0.011861	2.5
Extreme (30C)	710.0	8.7	0.012322	2.5
Extreme (10C)	710.0	9.0	0.012686	2.5
Extreme (0C)	710.0	8.2	0.011595	2.5
Extreme (-10C)	710.0	8.8	0.012342	2.5
Extreme (-20C)	710.0	9.3	0.013151	2.5
Extreme (-30C)	710.0	7.8	0.011028	2.5

Band 17 16QAM, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	710.0	10.0	0.014024	2.5
3.87	710.0	8.5	0.012040	2.5
4.45	710.0	8.0	0.011265	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	710.0	9.5	0.013312	2.5
Extreme (50C)	710.0	8.8	0.012387	2.5
Extreme (40C)	710.0	8.4	0.011878	2.5
Extreme (30C)	710.0	8.6	0.012134	2.5
Extreme (10C)	710.0	7.9	0.011089	2.5
Extreme (0C)	710.0	8.2	0.011532	2.5
Extreme (-10C)	710.0	9.8	0.013864	2.5
Extreme (-20C)	710.0	9.1	0.012817	2.5
Extreme (-30C)	710.0	8.5	0.011965	2.5

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

10.7 LTE BAND 25

QPSK, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1882.5	19	0.010093	2.5
3.87	1882.5	16	0.008499	2.5
4.45	1882.5	1	0.000531	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1882.5	4.7	0.002509	2.5
Extreme (50C)	1882.5	9.9	0.005236	2.5
Extreme (40C)	1882.5	6.0	0.003195	2.5
Extreme (30C)	1882.5	6.1	0.003215	2.5
Extreme (10C)	1882.5	5.5	0.002911	2.5
Extreme (0C)	1882.5	8.2	0.004342	2.5
Extreme (-10C)	1882.5	1.3	0.000711	2.5
Extreme (-20C)	1882.5	2.3	0.001197	2.5
Extreme (-30C)	1882.5	6.8	0.003589	2.5

16QAM, (20MHz BANDWIDTH)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.29	1882.5	9.5	0.005036	2.5
3.87	1882.5	7.9	0.004219	2.5
4.45	1882.5	5.0	0.002677	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1882.5	7.6	0.004048	2.5
Extreme (50C)	1882.5	5.6	0.002959	2.5
Extreme (40C)	1882.5	8.2	0.004350	2.5
Extreme (30C)	1882.5	1.9	0.001023	2.5
Extreme (10C)	1882.5	2.4	0.001274	2.5
Extreme (0C)	1882.5	6.8	0.003621	2.5
Extreme (-10C)	1882.5	5.3	0.002830	2.5
Extreme (-20C)	1882.5	7.3	0.003856	2.5
Extreme (-30C)	1882.5	6.3	0.003357	2.5

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

10.8 LTE BAND 26 A

Band 26A QPSK, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 QPSK, (CH 26915 RB size 75 RB Offset 0 10MHz BANDWIDTH)				
3.29	819	8.4	0.010260	2.5
3.87	819	5.7	0.006917	2.5
4.45	819	6.6	0.008033	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 QPSK, (CH 26915 RB size 75 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	819	9.0	0.010974	2.5
Extreme (50C)	819	1.4	0.001768	2.5
Extreme (40C)	819	2.4	0.002895	2.5
Extreme (30C)	819	6.8	0.008280	2.5
Extreme (10C)	819	5.4	0.006606	2.5
Extreme (0C)	819	7.0	0.008513	2.5
Extreme (-10C)	819	8.4	0.010315	2.5
Extreme (-20C)	819	6.4	0.007868	2.5
Extreme (-30C)	819	4.4	0.005358	2.5

Band 26A 16QAM, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 16QAM, (CH 26915 RB size 75 RB Offset 0 10MHz BANDWIDTH)				
3.29	819	2.0	0.002455	2.5
3.87	819	6.5	0.007987	2.5
4.45	819	5.6	0.006809	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 16QAM, (CH 26915 RB size 75 RB Offset 0 10MHz BANDWIDTH)				
Normal (25C)	819	6.0	0.007374	2.5
Extreme (50C)	819	9.0	0.010964	2.5
Extreme (40C)	819	7.0	0.008523	2.5
Extreme (30C)	819	4.2	0.005160	2.5
Extreme (10C)	819	6.6	0.008011	2.5
Extreme (0C)	819	5.2	0.006347	2.5
Extreme (-10C)	819	8.1	0.009937	2.5
Extreme (-20C)	819	6.5	0.007974	2.5
Extreme (-30C)	819	7.5	0.009129	2.5

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

10.9 LTE BAND 26 B

Band 26A QPSK, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 QPSK, (CH 26740 RB size 75 RB Offset 0 10MHz)				
3.29	836.5	8.7	0.010411	2.5
3.87	836.5	6.7	0.008014	2.5
4.45	836.5	8.9	0.010628	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 QPSK, (CH 26740 RB size 75 RB Offset 0 10MHz)				
Normal (25C)	836.5	10.5	0.012612	2.5
Extreme (50C)	836.5	9.4	0.011279	2.5
Extreme (40C)	836.5	6.4	0.007632	2.5
Extreme (30C)	836.5	8.3	0.009910	2.5
Extreme (10C)	836.5	7.7	0.009159	2.5
Extreme (0C)	836.5	9.9	0.011788	2.5
Extreme (-10C)	836.5	2.0	0.002383	2.5
Extreme (-20C)	836.5	8.7	0.010374	2.5
Extreme (-30C)	836.5	7.9	0.009500	2.5

Band 26A 16QAM, (10MHz BANDWIDTH RB size 50 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 16QAM, (CH 26740 RB size 75 RB Offset 0 10MHz)				
3.29	836.5	9.9	0.011831	2.5
3.87	836.5	12.0	0.014330	2.5
4.45	836.5	10.3	0.012300	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
BAND 26 16QAM, (CH 26740 RB size 75 RB Offset 0 10MHz)				
Normal (25C)	836.5	6.7	0.008043	2.5
Extreme (50C)	836.5	8.3	0.009911	2.5
Extreme (40C)	836.5	7.3	0.008763	2.5
Extreme (30C)	836.5	7.1	0.008438	2.5
Extreme (10C)	836.5	6.4	0.007627	2.5
Extreme (0C)	836.5	5.1	0.006051	2.5
Extreme (-10C)	836.5	5.3	0.006328	2.5
Extreme (-20C)	836.5	3.6	0.004359	2.5
Extreme (-30C)	836.5	8.0	0.009567	2.5

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

10.10 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)				
3.29	1745	13.1	0.00749	2.5
3.87	1745	13.9	0.00796	2.5
4.45	1745	13.2	0.00756	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	7.2	0.004101	2.5
Extreme (50C)	1745	4.7	0.002672	2.5
Extreme (40C)	1745	5.8	0.003348	2.5
Extreme (30C)	1745	5.2	0.002982	2.5
Extreme (10C)	1745	6.3	0.003618	2.5
Extreme (0C)	1745	5.0	0.002845	2.5
Extreme (-10C)	1745	9.4	0.005394	2.5
Extreme (-20C)	1745	11.1	0.006341	2.5
Extreme (-30C)	1745	6.7	0.003824	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)				
3.29	1745	13.1	0.007509	2.5
3.87	1745	13.4	0.007681	2.5
4.45	1745	13.6	0.007766	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	7.4	0.004252	2.5
Extreme (50C)	1745	4.5	0.002562	2.5
Extreme (40C)	1745	5.1	0.002921	2.5
Extreme (30C)	1745	5.2	0.002951	2.5
Extreme (10C)	1745	6.6	0.003793	2.5
Extreme (0C)	1745	4.7	0.002702	2.5
Extreme (-10C)	1745	9.9	0.005693	2.5
Extreme (-20C)	1745	10.6	0.006078	2.5
Extreme (-30C)	1745	6.5	0.003723	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.

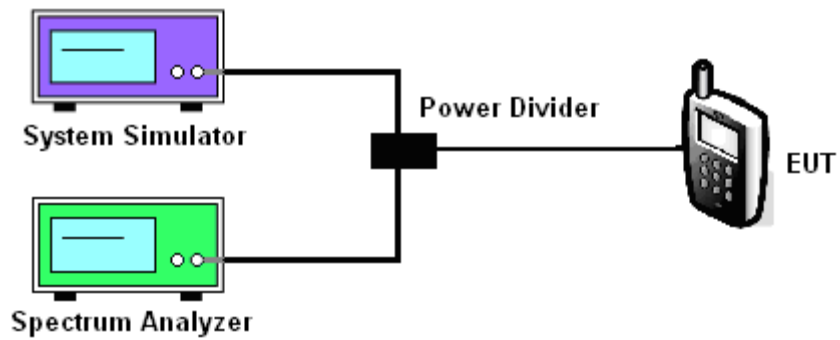
11.2 Measuring Instruments

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 2/4/5/7/12/17/25/26/66

Test data reference attachment.

-----END OF REPORT-----