



FCC RF Test Report

APPLICANT : VERTU Corporation Limited
EQUIPMENT : Cellular Telephone
BRAND NAME : VERTU
MODEL NAME : SIGNATURE TOUCH
TYPE NAME : VM-03
FCC ID : P7QVM-03
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jul. 02, 2015 and completely tested on Aug. 29, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG570205B	Rev. 01	Initial issue of report	Sep. 03, 2015
FG570205B	Rev. 02	Revising Bluetooth version in section 1.3.	Sep. 07, 2015

**SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band38) (Band 41)	< 55+10log ₁₀ (P[Watts])		



Report Section	FCC Rule	Description	Limit	Result	Remark
3.9	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-
4.4	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 13) (Band 17)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25) (Band 7) (Band38) (Band 41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 14.85 dB at 4992.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band38) (Band 41)	< 55+10log ₁₀ (P[Watts])		



1 General Description

1.1 Applicant

VERTU Corporation Limited

Beacon Hill Road, Church Crookham, Hampshire GU52 8DY, United Kingdom

1.2 Manufacturer

VERTU Corporation Limited

Beacon Hill Road, Church Crookham, Hampshire GU52 8DY, United Kingdom

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Cellular Telephone
Brand Name	VERTU
Model Name	SIGNATURE TOUCH
Type Name	VM-03
FCC ID	P7QVM-03
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.1 BR/EDR/LE
EUT Stage	Identical Prototype

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5 MHz LTE Band 41 : 2503.5 MHz ~ 2682.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5 MHz LTE Band 41 : 2503.5 MHz ~ 2682.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.18 dBm LTE Band 4 : 23.58 dBm LTE Band 5 : 23.70 dBm LTE Band 7 : 22.10 dBm LTE Band 13 : 23.55 dBm LTE Band 17 : 22.77 dBm LTE Band 25 : 23.45 dBm LTE Band 38 : 22.88 dBm LTE Band 41 : 22.61 dBm
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Emission Designator

LTE Band 2	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.1603	1M09W7D	-	0.1358
3	2M73G7D	-	0.1637	2M73W7D	-	0.1380
5	4M50G7D	-	0.1622	4M52W7D	-	0.1429
10	9M07G7D	0.0018	0.1660	9M05W7D	-	0.1442
15	13M5G7D	-	0.1726	13M5W7D	-	0.1489
20	18M5G7D	-	0.1799	18M5W7D	-	0.1552
LTE Band 25	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.2077	1M09G7D	-	0.1660
3	2M73G7D	-	0.1982	2M73G7D	-	0.1660
5	4M50G7D	-	0.1963	4M52G7D	-	0.1714
10	9M07G7D	0.0018	0.1930	9M05G7D	-	0.1808
15	13M5G7D	-	0.2128	13M5G7D	-	0.1816
20	18M3G7D	-	0.2138	18M5G7D	-	0.1837
LTE Band 4	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M10G7D	-	0.1300	1M10W7D	-	0.1047
3	2M72G7D	-	0.1285	2M73W7D	-	0.1084
5	4M49G7D	-	0.1274	4M52W7D	-	0.1096
10	9M05G7D	0.0067	0.1276	9M03W7D	-	0.1054
15	13M5G7D	-	0.1432	13M5W7D	-	0.1213
20	18M5G7D	-	0.1452	18M5W7D	-	0.1225



LTE Band 5		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	1M10G7D	-	0.0914	1M09W7D	-	0.0764
3	2M72G7D	-	0.0942	2M73W7D	-	0.0804
5	4M50G7D	-	0.0935	4M49W7D	-	0.0810
10	9M05G7D	0.0068	0.0948	9M09W7D	-	0.0798
LTE Band 7		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
			AVG.			AVG.
5	4M52G7D	-	0.0593	4M51W7D	-	0.0497
10	9M03G7D	0.0101	0.0798	9M03W7D	-	0.0622
15	13M5G7D	-	0.0767	13M5W7D	-	0.0661
20	18M4G7D	-	0.0571	18M5W7D	-	0.0537
LTE Band 13		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	4M51G7D	-	0.0650	4M51W7D	-	0.0514
10	8M97G7D	0.0054	0.0626	8M99W7D	-	0.0522
LTE Band 17		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	4M50G7D	-	0.0585	4M51W7D	-	0.0540
10	9M03G7D	0.0087	0.0562	9M05W7D	-	0.0522
LTE Band 38		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
			AVG.			AVG.
5	4M51G7D	-	0.1169	4M52W7D	-	0.0984
10	9M05G7D	0.0079	0.1138	9M07W7D	-	0.1011
15	13M5G7D	-	0.1099	13M5W7D	-	0.0935
20	18M5G7D	-	0.1222	18M5W7D	-	0.1042

LTE Band 41	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	4M50G7D	-	0.1140	4M50W7D	-	0.0998
10	9M11G7D	0.0012	0.0966	9M07W7D	-	0.0834
15	13M6G7D	-	0.1035	13M6W7D	-	0.0964
20	18M6G7D	-	0.1202	18M6W7D	-	0.1028

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH02-HY	03CH07-HY

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- KDB 648474 D03 Handset Wireless Chargers Battery Covers v01r02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	13	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓	✓	✓	✓		✓	✓	✓	✓
	4						✓	✓	✓	✓		✓	✓	✓	✓
	5				✓	-	-	✓	✓	✓		✓	✓	✓	✓
	7	-	-				✓	✓	✓	✓		✓	✓	✓	✓
	13	-	-		✓	-	-	✓	✓	✓		✓	✓	✓	✓
	17	-	-		✓	-	-	✓	✓	✓		✓	✓	✓	✓
	25						✓	✓	✓	✓		✓	✓	✓	✓
	38	-	-				✓	✓	✓	✓		✓	✓	✓	✓
	41	-	-				✓	✓	✓	✓		✓	✓	✓	✓



Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	13	-	-	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	13	-	-	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	17	-	-	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓



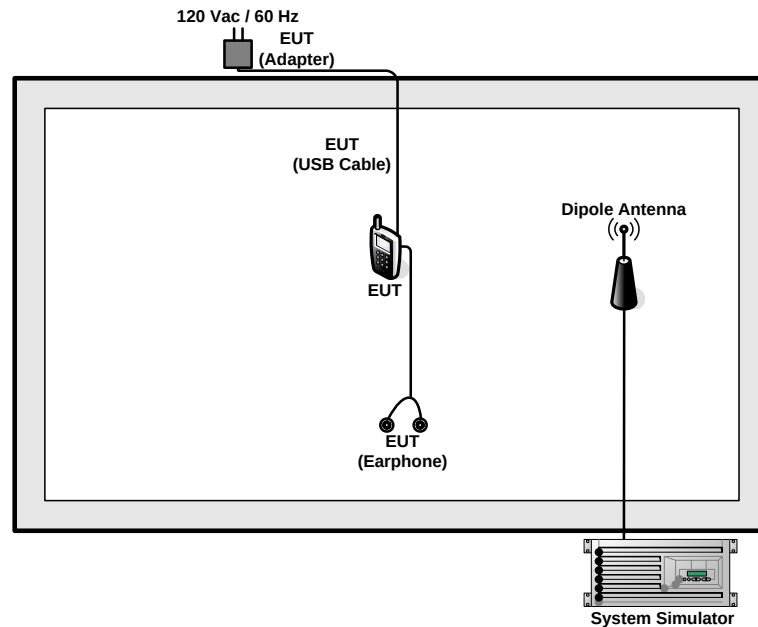
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	V	V	V	V	V	V	V	V	V			V	V	V
	4	V	V	V	V	V	V	V	V	V			V	V	V
	5	V	V	V	V	-	-	V	V	V			V	V	V
	7	-	-	V	V	V	V	V	V	V			V	V	V
	13	-	-	V	V	-	-	V	V	V			V	V	V
	17	-	-	V	V	-	-	V	V	V			V	V	V
	25	V	V	V	V	V	V	V	V	V			V	V	V
	38	-	-	V	V	V	V	V	V	V			V	V	V
	41	-	-	V	V	V	V	V	V	V			V	V	V
Frequency Stability	2				V			V				V		V	
	4				V			V				V		V	
	5				V	-	-	V				V		V	
	7	-	-		V			V				V		V	
	13	-	-		V	-	-	V				V		V	
	17	-	-		V	-	-	V				V		V	
	25				V			V				V		V	
	38	-	-		V			V				V		V	
	41	-	-		V			V				V		V	
E.R.P./ E.I.R.P.	2	V	V	V	V	V	V	V	V	V			V	V	V
	4	V	V	V	V	V	V	V	V	V	V		V	V	V
	5	V	V	V	V	-	-	V	V	V			V	V	V
	7	-	-	V	V	V	V	V	V	V	V		V	V	V
	13	-	-	V	V	V	V	V	V	V			V	V	V
	17	-	-	V	V	-	-	V	V	V			V	V	V
	25	V	V	V	V	V	V	V	V	V	V		V	V	V
	38	-	-	V	V	V	V	V	V	V			V	V	V
	41	-	-	V	V	V	V	V	V	V			V	V	V



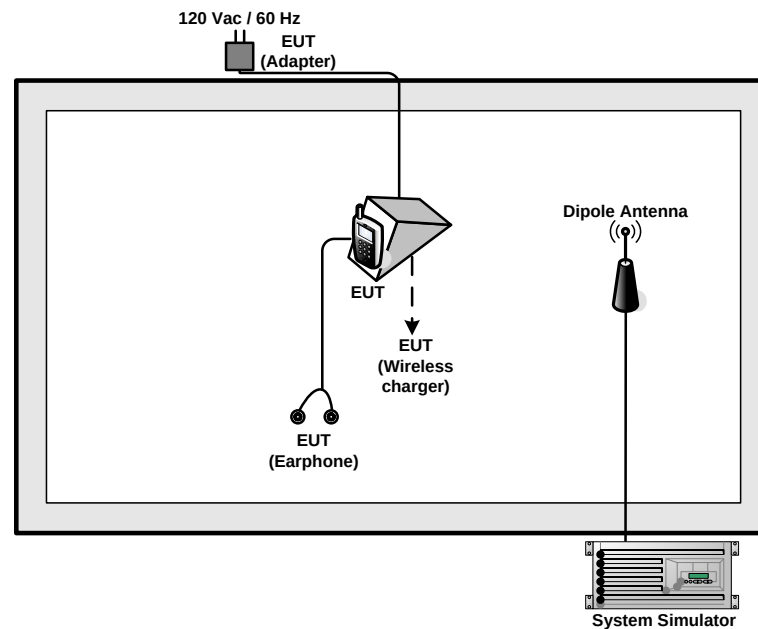
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	13	-	-	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	41 WPC	-	-		✓			✓		✓			✓		
Note	1. The mark “✓” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

2.2 Connection Diagram of Test System

<EUT with Adapter Mode>



<EUT with Wireless charger Mode>



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

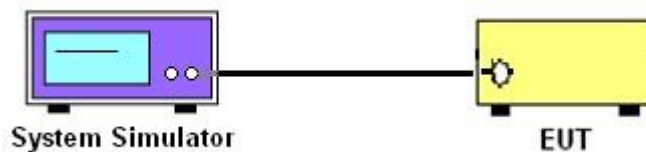
3 Conducted Test Items

3.1 Measuring Instruments

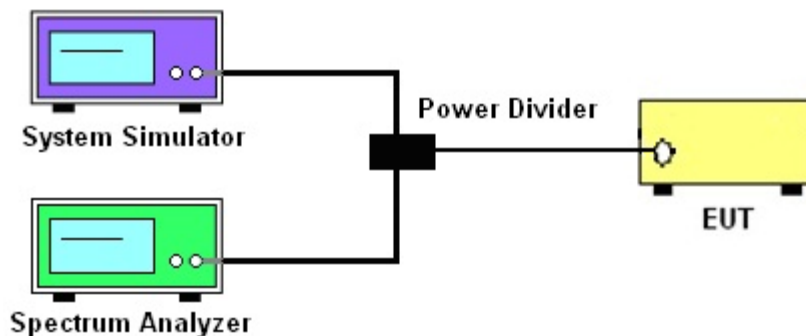
See list of measuring instruments of this test report.

3.2 Test Setup

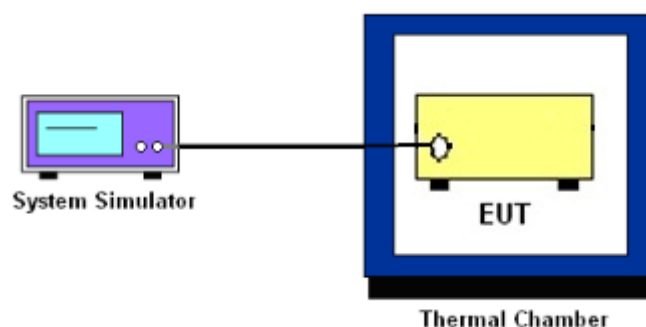
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a) for Band 5

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a) for Band 2, 25

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. 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.

27.53 (c) for Band 13

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g) for Band 17

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4) for FCC Band 7, 38, 41:

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.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB) = -13dBm.

For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7,38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

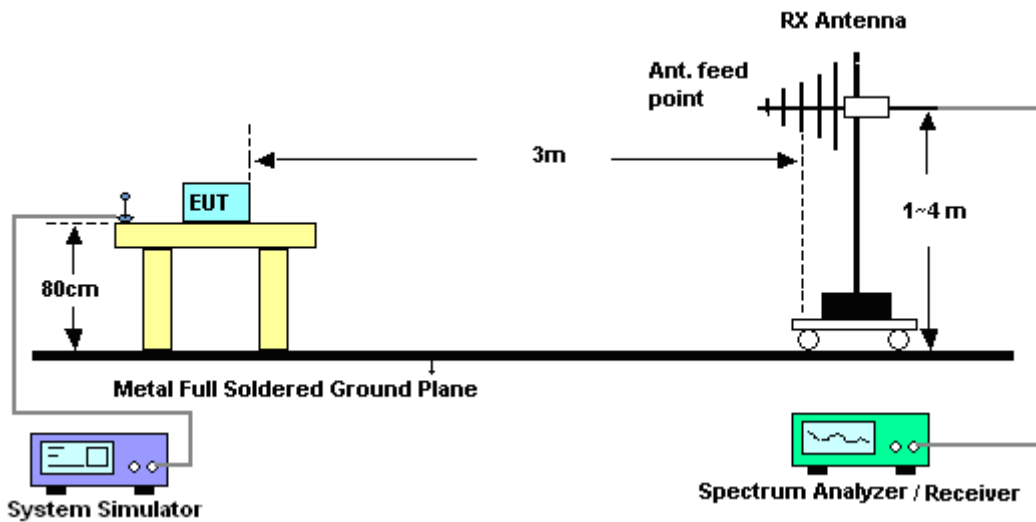
4 Radiated Test Items

4.1 Measuring Instruments

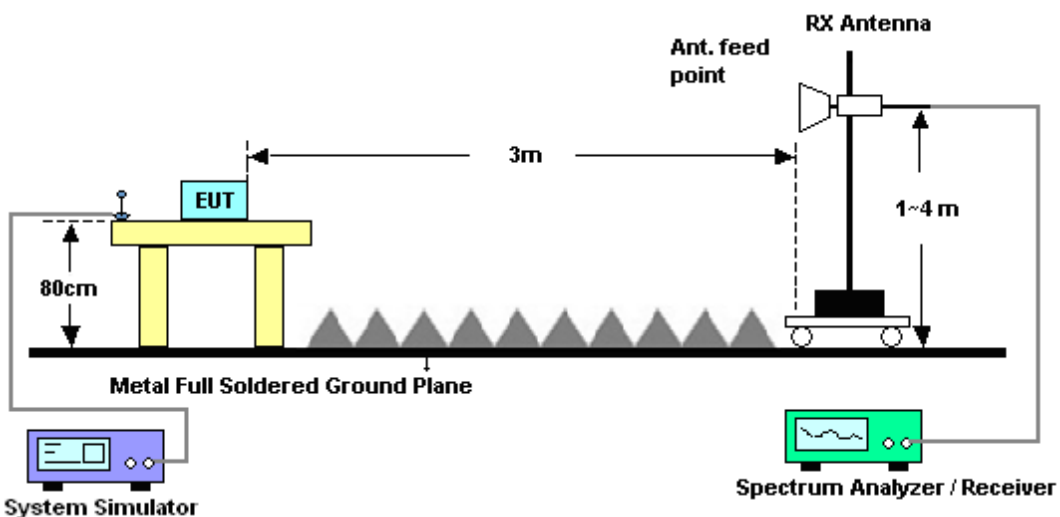
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Effective Radiated Power and Effective Isotropic Radiated Power

4.4.1 Description of the ERP/EIRP Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5 and 3 watts with LTE band 13 / 17.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 25 / 7 and 1 watt with LTE band 4.

4.4.2 Test Procedures

1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
2. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$. Take the record of the output power at substitution antenna.



	LTE Average					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Average	Average	Average	Average	Average	Average
Average Type	Power	Power	Power	Power	Power	Power
Sweep Count	100	100	100	100	100	100

	LTE Peak					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	Peak	Peak	Peak	Peak	Peak	Peak
Trace	Max Hold	Max Hold	Max Hold	Max Hold	Max Hold	Max Hold
Power	Channel	Channel	Channel	Channel	Channel	Channel



4.5 Radiated Spurious Emission

4.5.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For LTE Band 13,17

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm.}$$

For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

$$12. \text{ EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$13. \text{ ERP (dBm)} = \text{EIRP} - 2.15$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Sep. 17, 2014	Aug. 01, 2015 ~ Aug. 24, 2015	Sep. 16, 2015	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃~95℃	Jun. 15, 2015	Aug. 01, 2015 ~ Aug. 24, 2015	Jun. 14, 2016	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 17, 2014	Aug. 01, 2015 ~ Aug. 24, 2015	Oct. 16, 2015	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8820C	6201432821	GSM/GPRS/WCDMA/LTE	Oct. 27, 2014	Aug. 01, 2015 ~ Aug. 24, 2015	Oct. 26, 2015	Conducted (TH05-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 22, 2015	Aug. 01, 2015 ~ Aug. 29, 2015	Apr. 21, 2016	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Aug. 01, 2015 ~ Aug. 29, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2014	Aug. 01, 2015 ~ Aug. 16, 2015	Aug. 18, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Aug. 29, 2015	Aug. 20, 2016	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 03, 2014	Aug. 01, 2015 ~ Aug. 29, 2015	Nov. 02, 2015	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 04, 2015	Aug. 01, 2015 ~ Aug. 29, 2015	May 03, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	Aug. 01, 2015 ~ Aug. 29, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 21, 2014	Aug. 01, 2015 ~ Aug. 29, 2015	Oct. 20, 2015	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	Aug. 01, 2015 ~ Aug. 29, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	1GHz~40GHz	Dec. 04, 2014	Aug. 01, 2015 ~ Aug. 29, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9kHz~1GHz	Dec. 04, 2014	Aug. 01, 2015 ~ Aug. 29, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Aug. 01, 2015 ~ Aug. 29, 2015	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Aug. 01, 2015 ~ Aug. 29, 2015	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Aug. 01, 2015 ~ Aug. 29, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Aug. 01, 2015 ~ Aug. 29, 2015	N/A	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2015	Aug. 01, 2015 ~ Aug. 29, 2015	May 21, 2016	Radiation (03CH07-HY)



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.10
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.63	22.53	22.51
1.4	1	2		22.55	22.31	22.27
1.4	1	5		22.57	22.65	22.56
1.4	3	0		22.43	22.30	22.58
1.4	3	1		22.55	22.45	22.56
1.4	3	2		22.63	22.47	22.51
1.4	6	0	16-QAM	21.92	21.48	21.66
1.4	1	0		21.57	21.91	21.55
1.4	1	2		21.48	21.44	21.40
1.4	1	5		21.69	21.51	21.69
1.4	3	0		21.59	21.60	21.48
1.4	3	1		21.56	21.64	21.56
1.4	3	2		21.61	21.59	21.50
1.4	6	0		20.58	20.55	20.60
3	1	0	QPSK	22.92	22.72	22.71
3	1	7		22.46	22.56	22.58
3	1	14		22.45	22.78	22.16
3	8	0		21.63	21.68	21.60
3	8	4		21.78	21.45	21.20
3	8	7		21.58	21.57	21.89
3	15	0	16-QAM	21.58	21.81	21.40
3	1	0		22.20	22.19	21.92
3	1	7		22.05	21.88	21.83
3	1	14		21.78	22.05	21.72
3	8	0		20.81	20.91	20.65
3	8	4		20.62	20.74	20.24
3	8	7		20.67	20.43	20.49
3	15	0		20.82	20.76	20.37



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.92	22.82	22.91
5	1	12		22.48	22.71	22.59
5	1	24		22.40	22.52	22.24
5	12	0		21.50	21.79	21.60
5	12	6		21.65	21.46	21.55
5	12	11		21.61	21.50	21.71
5	25	0		21.54	21.78	21.63
5	1	0	16-QAM	21.77	22.50	22.07
5	1	12		21.63	21.97	21.77
5	1	24		21.66	22.06	21.79
5	12	0		20.77	20.67	20.97
5	12	6		20.82	20.74	20.34
5	12	11		20.88	20.64	20.52
5	25	0		20.67	20.78	20.44
10	1	0	QPSK	22.76	22.76	22.75
10	1	24		22.64	22.77	22.64
10	1	49		22.60	22.49	22.53
10	25	0		21.82	21.89	21.71
10	25	12		22.02	22.09	21.72
10	25	24		21.58	21.62	21.79
10	50	0		21.79	22.05	21.60
10	1	0	16-QAM	22.24	22.45	22.21
10	1	24		21.86	21.99	21.89
10	1	49		22.00	21.96	21.79
10	25	0		21.06	20.74	20.90
10	25	12		20.70	21.02	20.55
10	25	24		21.04	20.74	20.82
10	50	0		20.86	20.85	20.71



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.86	23.08	23.13
15	1	37		22.85	22.78	22.90
15	1	74		22.89	22.71	22.52
15	36	0		22.13	22.08	21.92
15	36	18		22.06	22.09	21.59
15	36	37		21.98	21.81	21.98
15	75	0		22.18	22.06	21.75
15	1	0	16-QAM	22.33	22.20	22.22
15	1	37		22.03	22.15	22.33
15	1	74		22.14	22.17	22.05
15	36	0		20.92	20.95	21.20
15	36	18		20.97	21.18	20.57
15	36	37		21.09	21.15	21.16
15	75	0		21.10	21.00	20.87
20	1	0	QPSK	23.18	23.16	22.97
20	1	49		22.72	23.13	22.75
20	1	99		22.71	22.81	22.88
20	50	0		22.40	22.04	21.63
20	50	24		22.24	22.23	21.62
20	50	49		22.08	22.05	21.89
20	100	0		22.41	22.39	21.86
20	1	0	16-QAM	22.50	21.97	21.88
20	1	49		22.48	22.17	21.51
20	1	99		22.08	22.34	22.39
20	50	0		21.39	21.04	20.58
20	50	24		21.36	21.39	20.65
20	50	49		20.99	21.23	20.82
20	100	0		21.35	21.49	20.61



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.89	22.78	22.79
1.4	1	2		22.80	22.55	22.51
1.4	1	5		22.85	22.87	22.78
1.4	3	0		22.71	22.50	22.85
1.4	3	1		22.75	22.74	22.80
1.4	3	2		22.91	22.77	22.78
1.4	6	0		22.13	21.76	21.92
1.4	1	0	16-QAM	21.78	22.13	21.83
1.4	1	2		21.73	21.71	21.64
1.4	1	5		21.92	21.77	21.99
1.4	3	0		21.82	21.81	21.74
1.4	3	1		21.80	21.87	21.78
1.4	3	2		21.84	21.85	21.74
1.4	6	0		20.87	20.76	20.90
3	1	0	QPSK	23.17	22.93	22.98
3	1	7		22.70	22.85	22.78
3	1	14		22.72	23.06	22.39
3	8	0		21.89	21.89	21.87
3	8	4		21.98	21.66	21.49
3	8	7		21.81	21.85	22.12
3	15	0		21.80	22.03	21.62
3	1	0	16-QAM	22.50	22.49	22.20
3	1	7		22.34	22.09	22.10
3	1	14		21.99	22.31	21.94
3	8	0		21.01	21.20	20.87
3	8	4		20.91	20.94	20.54
3	8	7		20.88	20.66	20.72
3	15	0		21.03	21.06	20.63



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.18	23.07	23.16
5	1	12		22.76	22.92	22.80
5	1	24		22.70	22.76	22.49
5	12	0		21.78	22.03	21.86
5	12	6		21.93	21.66	21.75
5	12	11		21.89	21.77	21.99
5	25	0		21.82	22.04	21.89
5	1	0	16-QAM	22.00	22.91	22.33
5	1	12		21.91	22.17	21.97
5	1	24		21.90	22.33	22.03
5	12	0		21.06	20.87	21.27
5	12	6		21.04	21.02	20.54
5	12	11		21.17	20.84	20.76
5	25	0		20.93	21.00	20.73
10	1	0	QPSK	23.03	23.03	23.00
10	1	24		22.89	23.05	22.84
10	1	49		22.81	22.76	22.74
10	25	0		22.05	22.19	21.99
10	25	12		22.28	22.36	21.92
10	25	24		21.79	21.87	22.02
10	50	0		21.99	22.33	21.89
10	1	0	16-QAM	22.53	22.74	22.46
10	1	24		22.08	22.20	22.19
10	1	49		22.28	22.24	22.02
10	25	0		21.35	20.94	21.17
10	25	12		20.94	21.30	20.84
10	25	24		21.32	20.99	21.02
10	50	0		21.13	21.12	20.98



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.13	23.38	23.35
15	1	37		23.13	23.02	23.19
15	1	74		23.15	22.98	22.72
15	36	0		22.43	22.29	22.14
15	36	18		22.32	22.37	21.86
15	36	37		22.22	22.11	22.20
15	75	0		22.41	22.30	22.03
15	1	0	16-QAM	22.56	22.42	22.45
15	1	37		22.31	22.38	22.61
15	1	74		22.40	22.44	22.35
15	36	0		21.18	21.19	21.44
15	36	18		21.25	21.39	20.77
15	36	37		21.31	21.39	21.37
15	75	0		21.39	21.21	21.17
20	1	0	QPSK	23.39	23.45	23.25
20	1	49		22.96	23.40	23.05
20	1	99		23.01	23.11	23.11
20	50	0		22.80	22.28	21.86
20	50	24		22.45	22.52	21.91
20	50	49		22.30	22.33	22.18
20	100	0		22.61	22.67	22.10
20	1	0	16-QAM	22.92	22.24	22.16
20	1	49		22.68	22.38	21.77
20	1	99		22.32	22.79	22.61
20	50	0		21.64	21.34	20.82
20	50	24		21.64	21.66	20.93
20	50	49		21.26	21.45	21.06
20	100	0		21.62	21.75	20.88



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.52	23.48	23.46
1.4	1	2		23.47	23.44	23.52
1.4	1	5		23.52	23.43	23.40
1.4	3	0		23.49	23.56	23.48
1.4	3	1		23.47	23.43	23.47
1.4	3	2		23.51	23.39	23.51
1.4	6	0	16-QAM	22.50	22.45	22.53
1.4	1	0		22.45	22.34	22.54
1.4	1	2		22.46	22.41	22.49
1.4	1	5		22.49	22.44	22.36
1.4	3	0		22.58	22.58	22.58
1.4	3	1		22.56	22.54	22.54
1.4	3	2		22.46	22.49	22.51
1.4	6	0		21.47	21.60	21.57
3	1	0	QPSK	23.47	23.51	23.51
3	1	7		23.49	23.43	23.49
3	1	14		23.41	23.39	23.48
3	8	0		22.62	22.57	22.72
3	8	4		22.49	22.58	22.61
3	8	7		22.55	22.51	22.59
3	15	0		22.46	22.58	22.55
3	1	0	16-QAM	22.42	22.54	22.52
3	1	7		22.56	22.44	22.49
3	1	14		22.60	22.35	22.47
3	8	0		21.40	21.42	21.64
3	8	4		21.54	21.45	21.58
3	8	7		21.53	21.42	21.45
3	15	0		21.48	21.50	21.48



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.48	23.43	23.49
5	1	12		23.50	23.34	23.46
5	1	24		23.45	23.41	23.40
5	12	0		22.52	22.49	22.66
5	12	6		22.54	22.43	22.61
5	12	11		22.50	22.52	22.70
5	25	0		22.49	22.47	22.64
5	1	0	16-QAM	22.47	22.51	22.57
5	1	12		22.57	22.49	22.59
5	1	24		22.55	22.39	22.47
5	12	0		21.57	21.50	21.57
5	12	6		21.53	21.53	21.62
5	12	11		21.52	21.47	21.57
5	25	0		21.48	21.49	21.60
10	1	0	QPSK	23.43	23.51	23.47
10	1	24		23.51	23.43	23.52
10	1	49		23.39	23.38	23.49
10	25	0		22.53	22.54	22.57
10	25	12		22.52	22.43	22.55
10	25	24		22.51	22.42	22.49
10	50	0		22.48	22.30	22.54
10	1	0	16-QAM	22.45	22.46	22.46
10	1	24		22.60	22.38	22.41
10	1	49		22.32	22.48	22.44
10	25	0		21.62	21.49	21.60
10	25	12		21.49	21.40	21.55
10	25	24		21.42	21.34	21.51
10	50	0		21.49	21.43	21.44



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.52	23.47	23.52
15	1	37		23.49	23.39	23.51
15	1	74		23.50	23.33	23.42
15	36	0		22.50	22.49	22.51
15	36	18		22.47	22.44	22.50
15	36	37		22.43	22.46	22.59
15	75	0		22.35	22.42	22.44
15	1	0	16-QAM	22.57	22.52	22.53
15	1	37		22.47	22.54	22.49
15	1	74		22.37	22.45	22.39
15	36	0		21.61	21.49	21.54
15	36	18		21.51	21.40	21.51
15	36	37		21.43	21.29	21.42
15	75	0		21.34	21.28	21.33
20	1	0	QPSK	23.36	23.46	23.58
20	1	49		23.07	23.02	23.25
20	1	99		23.29	23.33	23.08
20	50	0		22.46	22.37	22.53
20	50	24		22.07	22.11	22.24
20	50	49		21.99	22.19	22.13
20	100	0		22.18	22.22	22.37
20	1	0	16-QAM	22.60	22.73	22.76
20	1	49		22.25	22.32	22.46
20	1	99		22.45	22.53	22.34
20	50	0		21.32	21.32	21.48
20	50	24		21.01	21.09	21.22
20	50	49		20.97	21.16	21.13
20	100	0		21.19	21.21	21.37



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.41	23.47	23.16
1.4	1	2		23.39	23.38	23.23
1.4	1	5		23.38	23.31	23.19
1.4	3	0		23.09	23.28	22.99
1.4	3	1		23.26	23.25	23.22
1.4	3	2		23.24	23.31	23.24
1.4	6	0	16-QAM	22.09	22.24	22.00
1.4	1	0		22.70	22.68	22.41
1.4	1	2		22.57	22.61	22.50
1.4	1	5		22.59	22.56	22.50
1.4	3	0		22.25	22.27	22.20
1.4	3	1		22.32	22.40	22.06
1.4	3	2		22.18	22.41	22.16
1.4	6	0		21.14	21.30	21.11
3	1	0	QPSK	23.50	23.43	23.18
3	1	7		23.41	23.56	23.42
3	1	14		23.22	23.21	23.06
3	8	0		22.22	22.31	22.15
3	8	4		22.30	22.45	22.19
3	8	7		22.40	22.32	22.07
3	15	0	16-QAM	22.43	22.21	22.15
3	1	0		22.70	22.67	22.36
3	1	7		22.71	22.75	22.54
3	1	14		22.47	22.33	22.44
3	8	0		21.27	21.25	21.21
3	8	4		21.37	21.32	21.22
3	8	7		21.31	21.22	21.18
3	15	0		21.33	21.16	21.14



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.45	23.45	23.26
5	1	12		23.29	23.44	23.27
5	1	24		23.22	23.32	23.23
5	12	0		22.35	22.37	22.12
5	12	6		22.22	22.41	22.15
5	12	11		22.20	22.19	22.20
5	25	0		22.26	22.28	22.15
5	1	0	16-QAM	22.62	22.59	22.65
5	1	12		22.63	22.59	22.52
5	1	24		22.59	22.60	22.39
5	12	0		21.42	21.41	21.32
5	12	6		21.35	21.33	21.13
5	12	11		21.35	21.06	21.13
5	25	0		21.20	21.36	21.19
10	1	0	QPSK	23.44	23.70	23.36
10	1	24		23.37	23.47	23.33
10	1	49		23.33	23.29	23.16
10	25	0		22.34	22.42	22.24
10	25	12		22.41	22.30	22.20
10	25	24		22.32	22.24	22.18
10	50	0		22.38	22.32	22.13
10	1	0	16-QAM	22.78	22.86	22.79
10	1	24		22.75	22.66	22.53
10	1	49		22.64	22.62	22.48
10	25	0		21.36	21.32	21.29
10	25	12		21.45	21.45	21.23
10	25	24		21.22	21.30	21.11
10	50	0		21.21	21.26	21.24



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.01	21.94	22.05
5	1	12		22.08	22.08	22.04
5	1	24		22.03	21.96	22.03
5	12	0		20.99	20.96	21.06
5	12	6		20.97	20.95	21.02
5	12	11		20.96	20.98	21.05
5	25	0		21.15	20.85	21.08
5	1	0	16-QAM	20.98	20.96	21.02
5	1	12		21.03	21.04	21.04
5	1	24		20.94	21.03	21.03
5	12	0		21.10	21.03	21.09
5	12	6		21.06	21.05	21.13
5	12	11		21.10	21.07	21.10
5	25	0		20.05	20.11	20.14
10	1	0	QPSK	22.02	22.05	21.97
10	1	24		22.08	22.02	21.90
10	1	49		22.01	22.01	21.89
10	25	0		21.08	21.09	21.19
10	25	12		21.00	21.04	21.18
10	25	24		21.06	20.98	21.13
10	50	0		21.05	21.07	21.16
10	1	0	16-QAM	20.97	21.06	21.15
10	1	24		21.14	21.03	21.06
10	1	49		21.13	20.98	20.94
10	25	0		20.06	20.07	20.17
10	25	12		20.07	20.03	20.17
10	25	24		20.09	19.94	20.05
10	50	0		20.00	19.96	20.16



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.02	22.00	22.03
15	1	37		22.08	21.98	22.00
15	1	74		22.04	22.02	22.01
15	36	0		21.03	21.00	21.18
15	36	18		21.14	21.09	21.08
15	36	37		21.05	21.00	21.23
15	75	0		21.09	21.04	21.21
15	1	0	16-QAM	20.98	21.06	21.12
15	1	37		21.03	21.00	21.15
15	1	74		21.06	21.02	21.06
15	36	0		20.12	20.09	20.13
15	36	18		20.19	20.14	20.11
15	36	37		20.10	20.02	20.12
15	75	0		19.98	20.02	20.11
20	1	0	QPSK	22.10	22.04	22.05
20	1	49		22.04	22.00	21.98
20	1	99		21.94	22.01	22.02
20	50	0		21.07	21.05	21.12
20	50	24		21.02	21.04	21.11
20	50	49		20.95	20.94	21.03
20	100	0		21.01	20.96	21.02
20	1	0	16-QAM	21.05	21.03	21.07
20	1	49		21.03	20.95	21.04
20	1	99		20.90	21.05	21.01
20	50	0		20.07	20.08	20.13
20	50	24		20.04	20.02	20.04
20	50	49		20.03	19.92	20.06
20	100	0		20.05	19.92	20.00



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.51	23.27	23.52
5	1	12		23.47	23.37	23.48
5	1	24		23.27	23.25	23.27
5	12	0		22.28	22.18	22.20
5	12	6		22.28	22.47	22.35
5	12	11		22.25	22.39	22.45
5	25	0		22.22	22.39	22.29
5	1	0	16-QAM	22.71	22.60	22.58
5	1	12		22.69	22.76	22.83
5	1	24		22.58	22.70	22.77
5	12	0		21.50	21.20	21.12
5	12	6		21.24	21.31	21.25
5	12	11		21.21	21.30	21.33
5	25	0		21.35	21.36	21.37
10	1	0	QPSK		23.55	
10	1	24			23.45	
10	1	49			23.42	
10	25	0			22.38	
10	25	12			22.31	
10	25	24			22.25	
10	50	0			22.38	
10	1	0	16-QAM		22.55	
10	1	24			22.64	
10	1	49			22.67	
10	25	0			21.39	
10	25	12			21.37	
10	25	24			21.35	
10	50	0			21.26	



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.65	22.66	22.56
5	1	12		22.64	22.58	22.61
5	1	24		22.61	22.54	22.64
5	12	0		21.70	21.71	21.64
5	12	6		21.71	21.77	21.80
5	12	11		21.60	21.72	21.78
5	25	0	16-QAM	21.65	21.60	21.71
5	1	0		21.93	21.94	21.94
5	1	12		21.95	22.03	22.03
5	1	24		21.98	21.89	21.85
5	12	0		20.67	20.63	20.76
5	12	6		20.71	20.52	20.78
5	12	11		20.69	20.46	20.63
5	25	0		20.66	20.67	20.73
10	1	0	QPSK	22.69	22.77	22.63
10	1	24		22.58	22.59	22.66
10	1	49		22.51	22.54	22.50
10	25	0		21.82	21.76	21.66
10	25	12		21.72	21.65	21.80
10	25	24		21.55	21.55	21.47
10	50	0		21.72	21.71	21.62
10	1	0	16-QAM	22.05	22.04	21.90
10	1	24		22.01	22.00	22.00
10	1	49		22.07	22.01	21.88
10	25	0		20.68	20.77	20.68
10	25	12		20.54	20.71	20.73
10	25	24		20.65	20.46	20.49
10	50	0		20.60	20.68	20.66



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.71	22.85	22.48
5	1	12		22.69	22.84	22.39
5	1	24		22.58	22.75	22.29
5	12	0		21.83	22.03	21.68
5	12	6		21.89	22.14	21.66
5	12	11		21.85	22.19	21.68
5	25	0		21.87	22.13	21.60
5	1	0	16-QAM	21.99	22.22	21.73
5	1	12		22.02	22.23	21.68
5	1	24		21.96	22.18	21.60
5	12	0		20.84	21.06	20.77
5	12	6		20.91	21.17	20.74
5	12	11		20.86	21.18	20.76
5	25	0		20.88	21.10	20.70
10	1	0	QPSK	22.80	22.54	22.16
10	1	24		22.75	22.64	22.12
10	1	49		22.76	22.43	22.08
10	25	0		21.91	21.79	21.21
10	25	12		21.85	21.83	21.22
10	25	24		21.76	21.71	21.05
10	50	0		21.79	21.74	21.15
10	1	0	16-QAM	21.87	21.67	21.31
10	1	24		21.92	21.81	21.23
10	1	49		21.80	21.47	21.17
10	25	0		20.96	20.85	20.38
10	25	12		20.89	20.91	20.34
10	25	24		20.81	20.79	20.16
10	50	0		20.85	20.83	20.26



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.70	22.71	22.61
15	1	37		22.81	22.64	22.21
15	1	74		22.63	22.57	22.18
15	36	0		21.79	21.87	21.52
15	36	18		21.87	21.79	21.34
15	36	37		21.71	21.65	21.23
15	75	0		21.66	21.72	21.38
15	1	0	16-QAM	21.56	21.70	21.67
15	1	37		21.75	21.72	21.33
15	1	74		21.42	21.67	21.27
15	36	0		20.66	20.76	20.57
15	36	18		20.72	20.78	20.41
15	36	37		20.56	20.73	20.29
15	75	0		20.66	20.87	20.40
20	1	0	QPSK	22.85	22.88	22.65
20	1	49		22.58	22.71	22.34
20	1	99		22.47	22.42	22.22
20	50	0		21.82	21.83	21.55
20	50	24		21.76	21.75	21.40
20	50	49		21.62	21.65	21.23
20	100	0		21.69	21.67	21.41
20	1	0	16-QAM	21.50	21.61	21.78
20	1	49		21.76	21.71	21.39
20	1	99		21.37	21.52	21.15
20	50	0		20.82	20.91	20.61
20	50	24		20.82	20.82	20.45
20	50	49		20.65	20.81	20.29
20	100	0		20.70	20.83	20.42



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.39	22.50	22.00
5	1	12		22.28	22.40	22.02
5	1	24		22.20	22.39	22.03
5	12	0		21.50	21.48	21.27
5	12	6		21.52	21.59	21.28
5	12	11		21.41	21.51	21.20
5	25	0		21.53	21.58	21.20
5	1	0	16-QAM	21.75	21.81	21.24
5	1	12		21.60	21.71	21.31
5	1	24		21.59	21.74	21.05
5	12	0		20.57	20.54	20.08
5	12	6		20.59	20.66	20.05
5	12	11		20.55	20.59	20.02
5	25	0		20.50	20.59	20.05
10	1	0	QPSK	22.32	22.30	22.00
10	1	24		22.28	22.61	22.01
10	1	49		22.23	22.36	22.00
10	25	0		21.38	21.51	21.27
10	25	12		21.39	21.57	21.30
10	25	24		21.37	21.52	21.17
10	50	0		21.40	21.51	21.27
10	1	0	16-QAM	21.65	21.77	21.20
10	1	24		21.61	21.83	21.26
10	1	49		21.50	21.70	21.00
10	25	0		20.46	20.58	20.13
10	25	12		20.47	20.65	20.10
10	25	24		20.43	20.59	20.02
10	50	0		20.43	20.53	20.11



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.36	22.26	22.13
15	1	37		22.32	22.41	22.07
15	1	74		22.04	22.21	22.00
15	36	0		21.50	21.38	21.30
15	36	18		21.50	21.40	21.31
15	36	37		21.40	21.25	21.22
15	75	0		21.44	21.33	21.30
15	1	0	16-QAM	21.68	21.69	21.42
15	1	37		21.54	21.60	21.34
15	1	74		21.36	21.49	21.25
15	36	0		20.54	20.37	20.09
15	36	18		20.49	20.38	20.05
15	36	37		20.43	20.25	20.03
15	75	0		20.50	20.32	20.12
20	1	0	QPSK	22.34	22.38	22.00
20	1	49		22.31	22.18	22.01
20	1	99		22.09	22.15	22.00
20	50	0		21.44	21.24	21.27
20	50	24		21.59	21.40	21.28
20	50	49		21.37	21.29	21.39
20	100	0		21.43	21.30	21.24
20	1	0	16-QAM	21.63	21.73	21.19
20	1	49		21.58	21.47	21.25
20	1	99		21.27	21.32	21.27
20	50	0		20.49	20.30	20.13
20	50	24		20.64	20.40	20.02
20	50	49		20.37	20.33	20.17
20	100	0		20.49	20.34	20.03



Appendix B. Test Results of Radiated Test

ERP/EIRP



LTE Band 2 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	5	22.05	0.1603	20.29	0.1069
Middle		1	5	21.95	0.1567	20.12	0.1028
Highest		1	5	21.15	0.1303	19.48	0.0887
Lowest	16QAM	1	0	21.09	0.1285	19.37	0.0865
Middle		1	0	21.33	0.1358	19.54	0.0899
Highest		1	0	20.48	0.1117	18.80	0.0759
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.86	0.1535	20.22	0.1052
Middle		1	0	22.14	0.1637	20.37	0.1089
Highest		1	0	21.30	0.1349	19.65	0.0923
Lowest	16QAM	1	0	21.08	0.1282	19.45	0.0881
Middle		1	0	21.40	0.1380	19.58	0.0908
Highest		1	0	20.54	0.1132	18.91	0.0778
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.81	0.1517	20.20	0.1047
Middle		1	0	22.10	0.1622	20.28	0.1067
Highest		1	0	20.93	0.1239	19.23	0.0838
Lowest	16QAM	1	0	21.01	0.1262	19.40	0.0871
Middle		1	0	21.55	0.1429	19.74	0.0942
Highest		1	0	20.17	0.1040	18.46	0.0701
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.20	0.1660	20.47	0.1114
Middle		1	24	21.89	0.1545	20.04	0.1009
Highest		1	24	20.75	0.1189	19.02	0.0798
Lowest	16QAM	1	0	20.98	0.1253	19.30	0.0851
Middle		1	0	21.59	0.1442	19.62	0.0916
Highest		1	0	19.67	0.0927	17.85	0.0610
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.18	0.1652	20.34	0.1081
Middle		1	0	22.37	0.1726	20.40	0.1096
Highest		1	0	21.00	0.1259	19.15	0.0822
Lowest	16QAM	1	0	21.39	0.1377	19.55	0.0902
Middle		1	0	21.73	0.1489	19.82	0.0959
Highest		1	0	20.27	0.1064	18.43	0.0697
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.16	0.1644	20.35	0.1084
Middle		1	0	22.55	0.1799	20.69	0.1172
Highest		1	0	21.51	0.1416	19.81	0.0957
Lowest	16QAM	1	0	21.38	0.1374	19.60	0.0912
Middle		1	0	21.91	0.1552	20.03	0.1007
Highest		1	0	20.78	0.1197	19.08	0.0809
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	2	23.17	0.2077	22.43	0.1751
Middle		3	2	22.61	0.1825	21.73	0.1490
Highest		3	2	20.86	0.1219	20.26	0.1063
Lowest	16QAM	1	0	22.20	0.1660	21.69	0.1476
Middle		1	0	22.11	0.1626	21.49	0.1409
Highest		1	0	20.62	0.1153	20.32	0.1076
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.97	0.1982	22.50	0.1778
Middle		1	0	22.77	0.1892	22.20	0.1660
Highest		1	0	21.80	0.1514	21.45	0.1396
Lowest	16QAM	1	0	22.20	0.1660	21.74	0.1493
Middle		1	0	22.15	0.1641	21.58	0.1439
Highest		1	0	21.14	0.1300	20.77	0.1194
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.93	0.1963	22.45	0.1758
Middle		1	0	22.77	0.1892	22.22	0.1667
Highest		1	0	22.11	0.1626	21.61	0.1449
Lowest	16QAM	1	0	22.16	0.1644	21.70	0.1479
Middle		1	0	22.34	0.1714	21.78	0.1507
Highest		1	0	21.39	0.1377	20.90	0.1230
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.86	0.1930	22.45	0.1756
Middle		1	24	22.38	0.1729	22.00	0.1583
Highest		1	24	21.69	0.1474	21.55	0.1429
Lowest	16QAM	1	0	22.35	0.1718	21.69	0.1475
Middle		1	0	22.57	0.1808	21.98	0.1576
Highest		1	0	20.99	0.1255	20.74	0.1185
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.28	0.2128	22.62	0.1828
Middle		1	0	23.08	0.2032	22.60	0.1820
Highest		1	0	21.31	0.1352	20.70	0.1175
Lowest	16QAM	1	37	22.59	0.1816	22.09	0.1618
Middle		1	37	22.34	0.1714	21.86	0.1535
Highest		1	37	21.27	0.1340	20.89	0.1227
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.22	0.2099	22.67	0.1849
Middle		1	0	23.30	0.2138	22.67	0.1849
Highest		1	0	21.69	0.1476	20.98	0.1253
Lowest	16QAM	1	0	22.45	0.1758	21.90	0.1549
Middle		1	0	22.64	0.1837	22.04	0.1600
Highest		1	0	20.95	0.1245	20.24	0.1057
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	0	20.52	0.1127	18.70	0.0741
Middle		3	0	21.00	0.1259	18.99	0.0793
Highest		3	0	21.14	0.1300	19.29	0.0849
Lowest	16QAM	3	0	19.73	0.0940	17.88	0.0614
Middle		3	0	19.97	0.0993	17.95	0.0624
Highest		3	0	20.20	0.1047	18.38	0.0689
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.61	0.1151	19.09	0.0811
Middle		1	0	20.85	0.1216	19.00	0.0794
Highest		1	0	21.09	0.1285	19.36	0.0863
Lowest	16QAM	1	14	19.99	0.0998	18.19	0.0659
Middle		1	14	20.14	0.1033	18.25	0.0668
Highest		1	14	20.35	0.1084	18.66	0.0735
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	20.72	0.1180	18.79	0.0757
Middle		1	12	20.68	0.1169	18.84	0.0766
Highest		1	12	21.05	0.1274	19.35	0.0861
Lowest	16QAM	1	12	20.16	0.1038	18.37	0.0687
Middle		1	12	20.31	0.1074	18.40	0.0692
Highest		1	12	20.40	0.1096	18.70	0.0741
Limit	EIRP < 1W			Result		PASS	



LTE Band 4/ 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	20.88	0.1225	18.95	0.0785
Middle		1	24	20.94	0.1242	19.11	0.0815
Highest		1	24	21.06	0.1276	19.33	0.0857
Lowest	16QAM	1	24	20.06	0.1014	18.08	0.0643
Middle		1	24	20.11	0.1026	18.31	0.0678
Highest		1	24	20.23	0.1054	18.52	0.0711
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.16	0.1306	19.46	0.0883
Middle		1	0	21.47	0.1403	19.61	0.0914
Highest		1	0	21.56	0.1432	19.71	0.0935
Lowest	16QAM	1	0	20.31	0.1074	18.59	0.0723
Middle		1	0	20.73	0.1183	18.86	0.0769
Highest		1	0	20.84	0.1213	18.98	0.0791
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.30	0.1349	19.54	0.0899
Middle		1	0	21.23	0.1327	19.37	0.0865
Highest		1	0	21.62	0.1452	19.76	0.0946
Lowest	16QAM	1	0	20.53	0.1130	18.76	0.0752
Middle		1	0	20.49	0.1119	18.62	0.0728
Highest		1	0	20.88	0.1225	19.02	0.0798
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	19.47	0.0885	11.01	0.0126
Middle		1	0	19.61	0.0914	11.92	0.0156
Highest		1	0	19.08	0.0809	11.29	0.0135
Lowest	16QAM	1	0	18.83	0.0764	9.90	0.0098
Middle		1	0	18.74	0.0748	10.54	0.0113
Highest		1	0	18.24	0.0667	10.42	0.0110
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	7	19.69	0.0931	11.21	0.0132
Middle		1	7	19.74	0.0942	11.86	0.0153
Highest		1	7	19.39	0.0868	12.33	0.0171
Lowest	16QAM	1	7	19.01	0.0796	10.87	0.0122
Middle		1	7	19.06	0.0804	10.92	0.0124
Highest		1	7	18.63	0.0729	10.84	0.0121
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	19.57	0.0906	11.26	0.0134
Middle		1	0	19.71	0.0935	11.85	0.0153
Highest		1	0	19.69	0.0931	11.96	0.0157
Lowest	16QAM	1	0	18.94	0.0783	10.12	0.0103
Middle		1	0	19.09	0.0810	10.75	0.0119
Highest		1	0	18.85	0.0768	11.12	0.0129
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	19.67	0.0928	11.18	0.0131
Middle		1	0	19.77	0.0948	11.74	0.0149
Highest		1	0	19.67	0.0927	11.58	0.0144
Lowest	16QAM	1	0	18.81	0.0760	10.29	0.0107
Middle		1	0	19.02	0.0798	10.34	0.0108
Highest		1	0	18.94	0.0784	10.76	0.0119
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	16.54	0.0451	15.94	0.0393
Middle		1	12	17.20	0.0525	16.56	0.0453
Highest		1	12	17.73	0.0593	16.30	0.0427
Lowest	16QAM	12	6	15.66	0.0368	15.52	0.0356
Middle		12	6	16.40	0.0437	15.71	0.0372
Highest		12	6	16.96	0.0497	15.81	0.0381
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	17.37	0.0546	16.84	0.0483
Middle		1	24	17.98	0.0628	17.66	0.0583
Highest		1	24	19.02	0.0798	17.82	0.0606
Lowest	16QAM	1	0	16.44	0.0440	16.41	0.0437
Middle		1	0	17.34	0.0543	17.06	0.0508
Highest		1	0	17.94	0.0622	16.72	0.0470
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	17.18	0.0522	16.88	0.0488
Middle		1	37	17.98	0.0628	17.77	0.0598
Highest		1	37	18.85	0.0767	17.81	0.0604
Lowest	16QAM	1	37	16.37	0.0434	15.71	0.0372
Middle		1	37	17.35	0.0543	17.15	0.0519
Highest		1	37	18.20	0.0661	17.17	0.0521
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	17.24	0.0530	17.06	0.0508
Middle		1	0	17.57	0.0571	17.25	0.0531
Highest		1	0	17.32	0.0540	16.31	0.0428
Lowest	16QAM	1	0	17.30	0.0536	16.82	0.0481
Middle		1	0	17.30	0.0537	16.75	0.0473
Highest		1	0	16.73	0.0471	15.72	0.0373
Limit	EIRP < 2W			Result		PASS	



LTE Band 13 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.34	0.0543	8.22	0.0066
Middle		1	0	17.88	0.0614	8.49	0.0071
Highest		1	0	18.13	0.0650	8.48	0.0070
Lowest	16QAM	1	12	16.87	0.0486	7.42	0.0055
Middle		1	12	17.11	0.0514	7.64	0.0058
Highest		1	12	17.10	0.0513	7.58	0.0057
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	-	-	-	-
Middle		1	0	17.97	0.0626	8.72	0.0074
Highest		1	0	-	-	-	-
Lowest	16QAM	1	49	-	-	-	-
Middle		1	49	17.18	0.0522	7.94	0.0062
Highest		1	49	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.33	0.0541	6.11	0.0041
Middle		1	0	17.67	0.0585	7.53	0.0057
Highest		1	0	17.65	0.0582	6.51	0.0045
Lowest	16QAM	1	12	16.54	0.0451	4.31	0.0027
Middle		1	12	16.97	0.0498	6.42	0.0044
Highest		1	12	17.32	0.0540	6.26	0.0042
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.44	0.0555	6.74	0.0047
Middle		1	0	17.49	0.0562	7.16	0.0052
Highest		1	0	17.46	0.0558	7.22	0.0053
Lowest	16QAM	1	49	17.13	0.0516	6.36	0.0043
Middle		1	49	17.17	0.0522	6.87	0.0049
Highest		1	49	17.07	0.0510	6.86	0.0049
Limit	ERP < 3W			Result		PASS	



LTE Band 38 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.68	0.1169	19.79	0.0953
Middle		1	0	19.28	0.0847	18.91	0.0778
Highest		1	0	19.81	0.0957	19.73	0.0940
Lowest	16QAM	1	12	19.93	0.0984	19.02	0.0798
Middle		1	12	18.63	0.0729	18.26	0.0670
Highest		1	12	19.22	0.0836	19.02	0.0798
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.56	0.1138	19.66	0.0924
Middle		1	0	19.11	0.0815	18.64	0.0732
Highest		1	0	19.60	0.0913	19.31	0.0853
Lowest	16QAM	1	24	20.05	0.1011	19.10	0.0814
Middle		1	24	18.73	0.0747	18.38	0.0689
Highest		1	24	19.07	0.0807	18.89	0.0775
Limit	EIRP < 2W			Result		PASS	



LTE Band 38 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	20.41	0.1099	19.41	0.0873
Middle		1	37	19.25	0.0841	18.92	0.0780
Highest		1	37	19.62	0.0916	19.17	0.0826
Lowest	16QAM	1	37	19.71	0.0935	18.69	0.0740
Middle		1	37	18.56	0.0718	18.19	0.0659
Highest		1	37	18.99	0.0793	18.46	0.0701
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.87	0.1222	19.98	0.0995
Middle		1	0	19.65	0.0923	19.25	0.0841
Highest		1	0	19.64	0.0920	19.12	0.0817
Lowest	16QAM	1	0	20.18	0.1042	19.27	0.0845
Middle		1	0	18.98	0.0791	18.55	0.0716
Highest		1	0	19.00	0.0794	18.46	0.0701
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.57	0.1140	19.96	0.0991
Middle		1	0	19.52	0.0895	19.43	0.0877
Highest		1	0	19.13	0.0818	18.75	0.0750
Lowest	16QAM	1	0	19.99	0.0998	19.46	0.0883
Middle		1	0	18.43	0.0697	18.22	0.0664
Highest		1	0	18.44	0.0698	18.04	0.0637
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	19.85	0.0966	19.66	0.0924
Middle		1	24	19.39	0.0869	19.23	0.0838
Highest		1	24	18.97	0.0789	18.58	0.0722
Lowest	16QAM	1	24	19.21	0.0834	19.05	0.0803
Middle		1	24	18.65	0.0733	18.51	0.0709
Highest		1	24	18.08	0.0643	17.65	0.0582
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	20.15	0.1035	19.94	0.0986
Middle		1	37	19.48	0.0887	19.31	0.0853
Highest		1	37	19.18	0.0828	18.66	0.0735
Lowest	16QAM	1	0	19.84	0.0964	19.35	0.0861
Middle		1	0	19.23	0.0838	18.81	0.0760
Highest		1	0	19.29	0.0849	18.87	0.0771
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	20.58	0.1143	19.92	0.0982
Middle		1	0	19.99	0.0998	19.80	0.0955
Highest		1	0	20.80	0.1202	20.33	0.1079
Lowest	16QAM	1	0	19.86	0.0968	19.27	0.0845
Middle		1	0	19.36	0.0863	18.92	0.0780
Highest		1	0	20.12	0.1028	19.65	0.0923
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission



LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.75	-13	-36.75	-68.93	-56.32	1.67	8.24	H
	5548	-54.99	-13	-41.99	-79.7	-62.06	2.65	9.72	H
	7400	-47.07	-13	-34.07	-73.57	-56.21	2.46	11.60	H
									H
									H
									H
	3700	-46.65	-13	-33.65	-66.72	-53.22	1.67	8.24	V
	5548	-53.74	-13	-40.74	-79.32	-60.81	2.65	9.72	V
	7400	-43.15	-13	-30.15	-71.29	-52.29	2.46	11.60	V
									V
									V
									V
Middle	3759	-50.39	-13	-37.39	-69.75	-57.02	1.69	8.31	H
	5639	-54.24	-13	-41.24	-78.96	-61.29	2.71	9.76	H
	7517	-48.69	-13	-35.69	-75.77	-58.08	2.42	11.81	H
									H
									H
									H
	3759	-44.59	-13	-31.59	-65.12	-51.22	1.69	8.31	V
	5639	-53.06	-13	-40.06	-78.77	-60.11	2.71	9.76	V
	7517	-43.69	-13	-30.69	-72.46	-53.08	2.42	11.81	V
									V
									V
									V
Highest	3819	-48.49	-13	-35.49	-69.23	-53.02	1.70	8.38	H
	5726	-53.22	-13	-40.22	-78.1	-58.11	2.76	9.79	H
	7634	-48.09	-13	-35.09	-75.68	-55.43	2.39	11.88	H
									H
									H
									H
	3819	-45.48	-13	-32.48	-66.6	-50.01	1.70	8.38	V
	5726	-52.22	-13	-39.22	-78	-57.11	2.76	9.79	V
	7634	-43.68	-13	-30.68	-72.78	-51.02	2.39	11.88	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.45	-13	-36.45	-68.65	-56.02	1.67	8.24	H
	5550	-54.71	-13	-41.71	-79.36	-61.78	2.65	9.72	H
	7400	-47.19	-13	-34.19	-73.64	-56.33	2.46	11.60	H
									H
									H
									H
	3700	-46.65	-13	-33.65	-66.78	-53.22	1.67	8.24	V
	5550	-53.95	-13	-40.95	-79.76	-61.02	2.65	9.72	V
	7400	-43.52	-13	-30.52	-71.49	-52.66	2.46	11.60	V
									V
									V
									V
Middle	3756	-49.41	-13	-36.41	-68.71	-56.03	1.68	8.31	H
	5636	-54.28	-13	-41.28	-78.85	-61.33	2.70	9.75	H
	7514	-48.64	-13	-35.64	-75.36	-58.02	2.42	11.81	H
									H
									H
									H
	3756	-45.07	-13	-32.07	-65.33	-51.69	1.68	8.31	V
	5636	-52.62	-13	-39.62	-78.18	-59.67	2.70	9.75	V
	7514	-44.28	-13	-31.28	-72.71	-53.66	2.42	11.81	V
									V
									V
									V
Highest	3812	-48.03	-13	-35.03	-68.73	-52.55	1.70	8.37	H
	5721	-53.76	-13	-40.76	-78.58	-58.65	2.75	9.79	H
	7628	-48.39	-13	-35.39	-75.92	-55.73	2.39	11.88	H
									H
									H
									H
	3812	-45.03	-13	-32.03	-66.13	-49.55	1.70	8.37	V
	5721	-53.33	-13	-40.33	-78.97	-58.22	2.75	9.79	V
	7628	-44.67	-13	-31.67	-73.77	-52.01	2.39	11.88	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.54	-13	-37.54	-69.77	-57.11	1.67	8.24	H
	5548	-54.74	-13	-41.74	-79.33	-61.81	2.65	9.72	H
	7403	-47.07	-13	-34.07	-73.59	-56.22	2.46	11.61	H
									H
									H
									H
	3700	-47.58	-13	-34.58	-67.66	-54.15	1.67	8.24	V
	5548	-53.81	-13	-40.81	-79.41	-60.88	2.65	9.72	V
	7403	-43.91	-13	-30.91	-71.97	-53.06	2.46	11.61	V
									V
									V
									V
Middle	3756	-48.96	-13	-35.96	-68.28	-55.58	1.68	8.31	H
	5632	-54.17	-13	-41.17	-78.92	-61.22	2.70	9.75	H
	7508	-48.65	-13	-35.65	-75.47	-58.03	2.43	11.80	H
									H
									H
									H
	3756	-44.91	-13	-31.91	-65.08	-51.53	1.68	8.31	V
	5632	-53.06	-13	-40.06	-78.72	-60.11	2.70	9.75	V
	7508	-43.39	-13	-30.39	-71.77	-52.77	2.43	11.80	V
									V
									V
									V
Highest	3812	-46.64	-13	-33.64	-67.42	-51.16	1.70	8.37	H
	5716	-54.17	-13	-41.17	-79.04	-59.06	2.75	9.79	H
	7620	-48.21	-13	-35.21	-75.77	-55.54	2.39	11.87	H
									H
									H
									H
	3812	-44.03	-13	-31.03	-65.22	-48.55	1.70	8.37	V
	5716	-52.99	-13	-39.99	-78.64	-57.88	2.75	9.79	V
	7620	-44.33	-13	-31.33	-73.52	-51.66	2.39	11.87	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.02	-13	-37.02	-69.18	-56.59	1.67	8.24	H
	5548	-54.81	-13	-41.81	-79.36	-61.88	2.65	9.72	H
	7403	-47.66	-13	-34.66	-74.08	-56.81	2.46	11.61	H
									H
									H
									H
	3700	-46.24	-13	-33.24	-66.3	-52.81	1.67	8.24	V
	5548	-53.59	-13	-40.59	-79.29	-60.66	2.65	9.72	V
	7403	-44.56	-13	-31.56	-72.69	-53.71	2.46	11.61	V
									V
									V
									V
Middle	3749	-49.39	-13	-36.39	-68.63	-56.01	1.68	8.30	H
	5625	-53.97	-13	-40.97	-78.6	-61.02	2.70	9.75	H
	7501	-49.44	-13	-36.44	-76.24	-58.81	2.43	11.80	H
									H
									H
									H
	3749	-44.97	-13	-31.97	-65.23	-51.59	1.68	8.30	V
	5625	-52.76	-13	-39.76	-78.3	-59.81	2.70	9.75	V
	7501	-44.02	-13	-31.02	-72.65	-53.39	2.43	11.80	V
									V
									V
									V
Highest	3798	-46.08	-13	-33.08	-66.69	-50.59	1.70	8.36	H
	5702	-54.33	-13	-41.33	-79.13	-59.22	2.74	9.78	H
	7599	-48.91	-13	-35.91	-76.29	-56.22	2.40	11.86	H
									H
									H
									H
	3798	-43.15	-13	-30.15	-64.35	-47.66	1.70	8.36	V
	5702	-52.89	-13	-39.89	-78.59	-57.78	2.74	9.78	V
	7599	-45.85	-13	-32.85	-74.89	-53.16	2.40	11.86	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.76	-13	-37.76	-69.93	-57.33	1.67	8.24	H
	5550	-55.02	-13	-42.02	-79.78	-62.09	2.65	9.72	H
	7400	-47.88	-13	-34.88	-74.25	-57.02	2.46	11.60	H
									H
									H
									H
	3700	-46.87	-13	-33.87	-66.93	-53.44	1.67	8.24	V
	5550	-53.81	-13	-40.81	-79.55	-60.88	2.65	9.72	V
	7400	-43.57	-13	-30.57	-71.73	-52.71	2.46	11.60	V
									V
									V
									V
Middle	3749	-48.54	-13	-35.54	-67.88	-55.16	1.68	8.30	H
	5623	-54.97	-13	-41.97	-79.56	-62.02	2.70	9.75	H
	7494	-49.63	-13	-36.63	-76.16	-58.99	2.43	11.79	H
									H
									H
									H
	3749	-42.94	-13	-29.94	-63.11	-49.56	1.68	8.30	V
	5623	-53.83	-13	-40.83	-79.4	-60.88	2.70	9.75	V
	7494	-43.86	-13	-30.86	-72.33	-53.22	2.43	11.79	V
									V
									V
									V
Highest	3791	-47.61	-13	-34.61	-67.64	-52.11	1.70	8.35	H
	5685	-53.09	-13	-40.09	-77.78	-57.98	2.73	9.77	H
	7585	-49.72	-13	-36.72	-76.97	-57.02	2.40	11.85	H
									H
									H
									H
	3791	-43.72	-13	-30.72	-64.5	-48.22	1.70	8.35	V
	5685	-52.13	-13	-39.13	-77.9	-57.02	2.73	9.77	V
	7585	-44.92	-13	-31.92	-74.1	-52.22	2.40	11.85	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.72	-13	-36.72	-68.9	-56.29	1.67	8.24	H
	5550	-54.95	-13	-41.95	-79.58	-62.02	2.65	9.72	H
	7400	-46.97	-13	-33.97	-73.29	-56.11	2.46	11.60	H
									H
									H
									H
	3700	-46.06	-13	-33.06	-66.22	-52.63	1.67	8.24	V
	5550	-53.95	-13	-40.95	-79.61	-61.02	2.65	9.72	V
	7400	-43.63	-13	-30.63	-71.73	-52.77	2.46	11.60	V
									V
									V
									V
Middle	3742	-49.61	-13	-36.61	-68.97	-56.22	1.68	8.29	H
	5610	-54.38	-13	-41.38	-78.91	-61.44	2.69	9.74	H
	7487	-48.65	-13	-35.65	-75.24	-57.99	2.43	11.77	H
									H
									H
									H
	3742	-44.27	-13	-31.27	-64.45	-50.88	1.68	8.29	V
	5610	-53.49	-13	-40.49	-79.22	-60.55	2.69	9.74	V
	7487	-43.05	-13	-30.05	-71.5	-52.39	2.43	11.77	V
									V
									V
									V
Highest	3784	-48.99	-13	-35.99	-69.3	-53.49	1.69	8.34	H
	5674	-52.39	-13	-39.39	-77.22	-57.28	2.73	9.77	H
	7564	-49.16	-13	-36.16	-76.48	-56.44	2.41	11.84	H
									H
									H
									H
	3784	-43.52	-13	-30.52	-64.43	-48.02	1.69	8.34	V
	5674	-51.69	-13	-38.69	-77.43	-56.58	2.73	9.77	V
	7564	-44.74	-13	-31.74	-73.76	-52.02	2.41	11.84	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.75	-13	-36.75	-68.93	-56.32	1.67	8.24	H
	5548	-54.99	-13	-41.99	-79.7	-62.06	2.65	9.72	H
	7400	-47.07	-13	-34.07	-73.57	-56.21	2.46	11.60	H
									H
									H
									H
	3700	-46.65	-13	-33.65	-66.72	-53.22	1.67	8.24	V
	5548	-53.74	-13	-40.74	-79.32	-60.81	2.65	9.72	V
	7400	-43.15	-13	-30.15	-71.29	-52.29	2.46	11.60	V
									V
									V
									V
Middle	3759	-50.39	-13	-37.39	-69.75	-57.02	1.69	8.31	H
	5639	-54.24	-13	-41.24	-78.96	-61.29	2.71	9.76	H
	7517	-48.69	-13	-35.69	-75.77	-58.08	2.42	11.81	H
									H
									H
									H
	3759	-44.59	-13	-31.59	-65.12	-51.22	1.69	8.31	V
	5639	-53.06	-13	-40.06	-78.77	-60.11	2.71	9.76	V
	7517	-43.69	-13	-30.69	-72.46	-53.08	2.42	11.81	V
									V
									V
									V
Highest	3826	-45.92	-13	-32.92	-66.94	-52.6	1.71	8.39	H
	5744	-51.27	-13	-38.27	-76.12	-58.3	2.77	9.80	H
	7655	-47.09	-13	-34.09	-75.09	-56.6	2.38	11.89	H
									H
									H
									H
	3826	-43.82	-13	-30.82	-65.35	-50.5	1.71	8.39	V
	5744	-52.17	-13	-39.17	-77.42	-59.2	2.77	9.80	V
	7655	-42.69	-13	-29.69	-71.78	-52.2	2.38	11.89	V
									V
									V
									V



LTE Band 25 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.45	-13	-36.45	-68.65	-56.02	1.67	8.24	H
	5550	-54.71	-13	-41.71	-79.36	-61.78	2.65	9.72	H
	7400	-47.19	-13	-34.19	-73.64	-56.33	2.46	11.60	H
									H
									H
									H
	3700	-46.65	-13	-33.65	-66.78	-53.22	1.67	8.24	V
	5550	-53.95	-13	-40.95	-79.76	-61.02	2.65	9.72	V
	7400	-43.52	-13	-30.52	-71.49	-52.66	2.46	11.60	V
									V
									V
									V
Middle	3756	-49.41	-13	-36.41	-68.71	-56.03	1.68	8.31	H
	5636	-54.28	-13	-41.28	-78.85	-61.33	2.70	9.75	H
	7514	-48.64	-13	-35.64	-75.36	-58.02	2.42	11.81	H
									H
									H
									H
	3756	-45.07	-13	-32.07	-65.33	-51.69	1.68	8.31	V
	5636	-52.62	-13	-39.62	-78.18	-59.67	2.70	9.75	V
	7514	-44.28	-13	-31.28	-72.71	-53.66	2.42	11.81	V
									V
									V
									V
Highest	3826	-45.52	-13	-32.52	-66.43	-52.2	1.71	8.39	H
	5737	-51.47	-13	-38.47	-76.41	-58.5	2.76	9.79	H
	7648	-47.09	-13	-34.09	-74.4	-56.6	2.38	11.89	H
									H
									H
									H
	3826	-44.72	-13	-31.72	-66.14	-51.4	1.71	8.39	V
	5737	-52.17	-13	-39.17	-77.81	-59.2	2.76	9.79	V
	7648	-42.39	-13	-29.39	-71.52	-51.9	2.38	11.89	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.54	-13	-37.54	-69.77	-57.11	1.67	8.24	H
	5548	-54.74	-13	-41.74	-79.33	-61.81	2.65	9.72	H
	7403	-47.07	-13	-34.07	-73.59	-56.22	2.46	11.61	H
									H
									H
									H
	3700	-47.58	-13	-34.58	-67.66	-54.15	1.67	8.24	V
	5548	-53.81	-13	-40.81	-79.41	-60.88	2.65	9.72	V
	7403	-43.91	-13	-30.91	-71.97	-53.06	2.46	11.61	V
									V
									V
									V
Middle	3756	-48.96	-13	-35.96	-68.28	-55.58	1.68	8.31	H
	5632	-54.17	-13	-41.17	-78.92	-61.22	2.70	9.75	H
	7508	-48.65	-13	-35.65	-75.47	-58.03	2.43	11.80	H
									H
									H
									H
	3756	-44.91	-13	-31.91	-65.08	-51.53	1.68	8.31	V
	5632	-53.06	-13	-40.06	-78.72	-60.11	2.70	9.75	V
	7508	-43.39	-13	-30.39	-71.77	-52.77	2.43	11.80	V
									V
									V
									V
Highest	3819	-47.52	-13	-34.52	-68.42	-54.2	1.70	8.38	H
	5730	-52.47	-13	-39.47	-77.38	-59.5	2.76	9.79	H
	7641	-47.90	-13	-34.90	-75.29	-57.4	2.38	11.88	H
									H
									H
									H
	3819	-47.02	-13	-34.02	-68.58	-53.7	1.70	8.38	V
	5730	-51.67	-13	-38.67	-77.66	-58.7	2.76	9.79	V
	7641	-42.10	-13	-29.10	-71.32	-51.6	2.38	11.88	V
									V
									V
									V



LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.02	-13	-37.02	-69.18	-56.59	1.67	8.24	H
	5548	-54.81	-13	-41.81	-79.36	-61.88	2.65	9.72	H
	7403	-47.66	-13	-34.66	-74.08	-56.81	2.46	11.61	H
									H
									H
									H
	3700	-46.24	-13	-33.24	-66.3	-52.81	1.67	8.24	V
	5548	-53.59	-13	-40.59	-79.29	-60.66	2.65	9.72	V
	7403	-44.56	-13	-31.56	-72.69	-53.71	2.46	11.61	V
									V
									V
									V
Middle	3749	-49.39	-13	-36.39	-68.63	-56.01	1.68	8.30	H
	5625	-53.97	-13	-40.97	-78.6	-61.02	2.70	9.75	H
	7501	-49.44	-13	-36.44	-76.24	-58.81	2.43	11.80	H
									H
									H
									H
	3749	-44.97	-13	-31.97	-65.23	-51.59	1.68	8.30	V
	5625	-52.76	-13	-39.76	-78.3	-59.81	2.70	9.75	V
	7501	-44.02	-13	-31.02	-72.65	-53.39	2.43	11.80	V
									V
									V
									V
Highest	3812	-45.53	-13	-32.53	-66.53	-52.2	1.70	8.37	H
	5716	-54.56	-13	-41.56	-79.03	-61.6	2.75	9.79	H
	7620	-47.62	-13	-34.62	-75.31	-57.1	2.39	11.87	H
									H
									H
									H
	3812	-45.63	-13	-32.63	-67.17	-52.3	1.70	8.37	V
	5715	-53.26	-13	-40.26	-79.37	-60.3	2.75	9.79	V
	7620	-42.62	-13	-29.62	-72.17	-52.1	2.39	11.87	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-50.76	-13	-37.76	-69.93	-57.33	1.67	8.24	H
	5550	-55.02	-13	-42.02	-79.78	-62.09	2.65	9.72	H
	7400	-47.88	-13	-34.88	-74.25	-57.02	2.46	11.60	H
									H
									H
									H
	3700	-46.87	-13	-33.87	-66.93	-53.44	1.67	8.24	V
	5550	-53.81	-13	-40.81	-79.55	-60.88	2.65	9.72	V
	7400	-43.57	-13	-30.57	-71.73	-52.71	2.46	11.60	V
									V
									V
									V
Middle	3749	-48.54	-13	-35.54	-67.88	-55.16	1.68	8.30	H
	5623	-54.97	-13	-41.97	-79.56	-62.02	2.70	9.75	H
	7494	-49.63	-13	-36.63	-76.16	-58.99	2.43	11.79	H
									H
									H
									H
	3749	-42.94	-13	-29.94	-63.11	-49.56	1.68	8.30	V
	5623	-53.83	-13	-40.83	-79.4	-60.88	2.70	9.75	V
	7494	-43.86	-13	-30.86	-72.33	-53.22	2.43	11.79	V
									V
									V
									V
Highest	3798	-44.54	-13	-31.54	-65.56	-51.2	1.70	8.36	H
	5702	-53.36	-13	-40.36	-78.32	-60.4	2.74	9.78	H
	7606	-48.63	-13	-35.63	-76.27	-58.1	2.40	11.86	H
									H
									H
									H
	3798	-44.14	-13	-31.14	-65.7	-50.8	1.70	8.36	V
	5700	-53.56	-13	-40.56	-79.41	-60.6	2.74	9.78	V
	7606	-43.73	-13	-30.73	-73.26	-53.2	2.40	11.86	V
									V
									V
									V



LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-49.72	-13	-36.72	-68.9	-56.29	1.67	8.24	H
	5550	-54.95	-13	-41.95	-79.58	-62.02	2.65	9.72	H
	7400	-46.97	-13	-33.97	-73.29	-56.11	2.46	11.60	H
									H
									H
									H
	3700	-46.06	-13	-33.06	-66.22	-52.63	1.67	8.24	V
	5550	-53.95	-13	-40.95	-79.61	-61.02	2.65	9.72	V
	7400	-43.63	-13	-30.63	-71.73	-52.77	2.46	11.60	V
									V
									V
									V
Middle	3742	-49.61	-13	-36.61	-68.97	-56.22	1.68	8.29	H
	5610	-54.38	-13	-41.38	-78.91	-61.44	2.69	9.74	H
	7487	-48.65	-13	-35.65	-75.24	-57.99	2.43	11.77	H
									H
									H
									H
	3742	-44.27	-13	-31.27	-64.45	-50.88	1.68	8.29	V
	5610	-53.49	-13	-40.49	-79.22	-60.55	2.69	9.74	V
	7487	-43.05	-13	-30.05	-71.5	-52.39	2.43	11.77	V
									V
									V
									V
Highest	3791	-44.75	-13	-31.75	-65.29	-51.4	1.70	8.35	H
	5688	-52.36	-13	-39.36	-77.45	-59.4	2.73	9.78	H
	7585	-48.15	-13	-35.15	-75.81	-57.6	2.40	11.85	H
									H
									H
									H
	3791	-44.25	-13	-31.25	-65.06	-50.9	1.70	8.35	V
	5688	-53.46	-13	-40.46	-79.03	-60.5	2.73	9.78	V
	7585	-43.25	-13	-30.25	-72.82	-52.7	2.40	11.85	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-51.73	-13	-38.73	-69.24	-57.8	1.58	7.65	H
	5128	-54.71	-13	-41.71	-78.15	-62	2.41	9.70	H
	6843	-46.13	-13	-33.13	-71.98	-54.1	2.64	10.61	H
									H
									H
									H
	3420	-52.33	-13	-39.33	-71.21	-58.4	1.58	7.65	V
	5128	-54.21	-13	-41.21	-78.95	-61.5	2.41	9.70	V
	6843	-48.63	-13	-35.63	-75.64	-56.6	2.64	10.61	V
									V
									V
									V
Middle	3462	-49.06	-13	-36.06	-67.01	-55.3	1.59	7.83	H
	5198	-52.65	-13	-39.65	-76.28	-59.9	2.45	9.70	H
	6927	-46.80	-13	-33.80	-73.41	-54.9	2.61	10.71	H
									H
									H
									H
	3462	-50.66	-13	-37.66	-69.59	-56.9	1.59	7.83	V
	5198	-52.65	-13	-39.65	-76.88	-59.9	2.45	9.70	V
	6927	-50.00	-13	-37.00	-77.56	-58.1	2.61	10.71	V
									V
									V
									V
Highest	3504	-49.20	-13	-36.20	-66.95	-55.6	1.61	8.00	H
	5261	-51.59	-13	-38.59	-76.06	-58.8	2.49	9.70	H
	7018	-43.95	-13	-30.95	-70.59	-52.2	2.58	10.84	H
									H
									H
									H
	3504	-51.00	-13	-38.00	-70.11	-57.4	1.61	8.00	V
	5261	-51.09	-13	-38.09	-76.22	-58.3	2.49	9.70	V
	7018	-47.85	-13	-34.85	-75.53	-56.1	2.58	10.84	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-51.03	-13	-38.03	-68.3	-57.1	1.58	7.65	H
	5128	-54.61	-13	-41.61	-78.09	-61.9	2.41	9.70	H
	6843	-44.43	-13	-31.43	-70.99	-52.4	2.64	10.61	H
									H
									H
									H
	3420	-52.13	-13	-39.13	-71.42	-58.2	1.58	7.65	V
	5130	-54.21	-13	-41.21	-79.11	-61.5	2.41	9.70	V
	6843	-48.13	-13	-35.13	-75.93	-56.1	2.64	10.61	V
									V
									V
									V
Middle	3462	-49.66	-13	-36.66	-67.19	-55.9	1.59	7.83	H
	5191	-52.55	-13	-39.55	-76.27	-59.8	2.45	9.70	H
	6927	-46.90	-13	-33.90	-73.1	-55	2.61	10.71	H
									H
									H
									H
	3462	-50.86	-13	-37.86	-69.88	-57.1	1.59	7.83	V
	5191	-52.35	-13	-39.35	-77.04	-59.6	2.45	9.70	V
	6927	-49.50	-13	-36.50	-76.91	-57.6	2.61	10.71	V
									V
									V
									V
Highest	3504	-48.80	-13	-35.80	-66.68	-55.2	1.61	8.00	H
	5254	-50.58	-13	-37.58	-75.05	-57.8	2.48	9.70	H
	7011	-44.56	-13	-31.56	-71.02	-52.8	2.59	10.82	H
									H
									H
									H
	3504	-50.50	-13	-37.50	-69.27	-56.9	1.61	8.00	V
	5254	-50.98	-13	-37.98	-76.19	-58.2	2.48	9.70	V
	7011	-47.96	-13	-34.96	-75.43	-56.2	2.59	10.82	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-51.73	-13	-38.73	-69.12	-57.8	1.58	7.65	H
	5128	-54.41	-13	-41.41	-78.09	-61.7	2.41	9.70	H
	6843	-45.63	-13	-32.63	-72.03	-53.6	2.64	10.61	H
									H
									H
									H
	3420	-53.13	-13	-40.13	-72.14	-59.2	1.58	7.65	V
	5130	-54.51	-13	-41.51	-79.14	-61.8	2.41	9.70	V
	6843	-47.83	-13	-34.83	-75.42	-55.8	2.64	10.61	V
									V
									V
									V
Middle	3462	-50.16	-13	-37.16	-67.98	-56.4	1.59	7.83	H
	5191	-52.55	-13	-39.55	-76.23	-59.8	2.45	9.70	H
	6920	-47.11	-13	-34.11	-73.42	-55.2	2.62	10.70	H
									H
									H
									H
	3462	-51.26	-13	-38.26	-70.26	-57.5	1.59	7.83	V
	5191	-52.35	-13	-39.35	-77.28	-59.6	2.45	9.70	V
	6920	-49.31	-13	-36.31	-76.72	-57.4	2.62	10.70	V
									V
									V
									V
Highest	3497	-49.32	-13	-36.32	-66.91	-55.7	1.60	7.99	H
	5254	-51.68	-13	-38.68	-76.05	-58.9	2.48	9.70	H
	7004	-45.38	-13	-32.38	-71.57	-53.6	2.59	10.81	H
									H
									H
									H
	3497	-50.52	-13	-37.52	-69.59	-56.9	1.60	7.99	V
	5247	-51.98	-13	-38.98	-77.11	-59.2	2.48	9.70	V
	7004	-48.38	-13	-35.38	-75.75	-56.6	2.59	10.81	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-49.63	-13	-36.63	-67.48	-55.7	1.58	7.65	H
	5128	-54.51	-13	-41.51	-77.64	-61.8	2.41	9.70	H
	6843	-45.13	-13	-32.13	-71.7	-53.1	2.64	10.61	H
									H
									H
									H
	3420	-52.63	-13	-39.63	-71.33	-58.7	1.58	7.65	V
	5128	-54.11	-13	-41.11	-78.76	-61.4	2.41	9.70	V
	6843	-49.03	-13	-36.03	-76.38	-57	2.64	10.61	V
									V
									V
									V
Middle	3455	-50.39	-13	-37.39	-67.84	-56.6	1.59	7.80	H
	5184	-52.34	-13	-39.34	-75.79	-59.6	2.44	9.70	H
	6913	-46.12	-13	-33.12	-72.6	-54.2	2.62	10.70	H
									H
									H
									H
	3455	-50.29	-13	-37.29	-69.55	-56.5	1.59	7.80	V
	5184	-51.54	-13	-38.54	-76.19	-58.8	2.44	9.70	V
	6913	-49.32	-13	-36.32	-76.98	-57.4	2.62	10.70	V
									V
									V
									V
Highest	3490	-50.25	-13	-37.25	-67.13	-56.6	1.60	7.96	H
	5233	-52.57	-13	-39.57	-76.21	-59.8	2.47	9.70	H
	6983	-46.42	-13	-33.42	-72.68	-54.6	2.60	10.78	H
									H
									H
									H
	3490	-50.85	-13	-37.85	-69.8	-57.2	1.60	7.96	V
	5233	-51.37	-13	-38.37	-76.32	-58.6	2.47	9.70	V
	6983	-48.92	-13	-35.92	-76.47	-57.1	2.60	10.78	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-51.53	-13	-38.53	-69.26	-57.6	1.58	7.65	H
	5135	-54.31	-13	-41.31	-77.58	-61.6	2.41	9.70	H
	6843	-45.33	-13	-32.33	-71.98	-53.3	2.64	10.61	H
									H
									H
									H
	3420	-53.63	-13	-40.63	-72.16	-59.7	1.58	7.65	V
	5135	-54.11	-13	-41.11	-78.94	-61.4	2.41	9.70	V
	6843	-48.33	-13	-35.33	-76.13	-56.3	2.64	10.61	V
									V
									V
									V
Middle	3448	-49.82	-13	-36.82	-67.61	-56	1.59	7.77	H
	5177	-51.64	-13	-38.64	-75.41	-58.9	2.44	9.70	H
	6906	-45.73	-13	-32.73	-72.01	-53.8	2.62	10.69	H
									H
									H
									H
	3448	-50.92	-13	-37.92	-69.71	-57.1	1.59	7.77	V
	5177	-51.64	-13	-38.64	-76.17	-58.9	2.44	9.70	V
	6906	-49.23	-13	-36.23	-76.41	-57.3	2.62	10.69	V
									V
									V
									V
Highest	3483	-50.77	-13	-37.77	-68.14	-57.1	1.60	7.93	H
	5219	-52.56	-13	-39.56	-76.48	-59.8	2.46	9.70	H
	6962	-46.55	-13	-33.55	-72.71	-54.7	2.60	10.75	H
									H
									H
									H
	3483	-51.47	-13	-38.47	-70.18	-57.8	1.60	7.93	V
	5219	-52.16	-13	-39.16	-77.3	-59.4	2.46	9.70	V
	6962	-48.15	-13	-35.15	-75.72	-56.3	2.60	10.75	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-50.43	-13	-37.43	-68.33	-56.5	1.58	7.65	H
	5135	-53.91	-13	-40.91	-77.56	-61.2	2.41	9.70	H
	6843	-45.83	-13	-32.83	-72.06	-53.8	2.64	10.61	H
									H
									H
									H
	3420	-52.03	-13	-39.03	-71.04	-58.1	1.58	7.65	V
	5135	-53.61	-13	-40.61	-78.6	-60.9	2.41	9.70	V
	6843	-48.63	-13	-35.63	-75.96	-56.6	2.64	10.61	V
									V
									V
									V
Middle	3448	-49.32	-13	-36.32	-67.36	-55.5	1.59	7.77	H
	5170	-50.53	-13	-37.53	-73.79	-57.8	2.43	9.70	H
	6892	-46.75	-13	-33.75	-72.97	-54.8	2.63	10.67	H
									H
									H
									H
	3448	-50.92	-13	-37.92	-69.68	-57.1	1.59	7.77	V
	5170	-51.63	-13	-38.63	-75.77	-58.9	2.43	9.70	V
	6892	-48.75	-13	-35.75	-76.12	-56.8	2.63	10.67	V
									V
									V
									V
Highest	3469	-49.93	-13	-36.93	-67.92	-56.2	1.59	7.86	H
	5205	-53.56	-13	-40.56	-77.3	-60.8	2.46	9.70	H
	6941	-46.68	-13	-33.68	-72.66	-54.8	2.61	10.73	H
									H
									H
									H
	3469	-50.83	-13	-37.83	-69.89	-57.1	1.59	7.86	V
	5205	-52.56	-13	-39.56	-77.15	-59.8	2.46	9.70	V
	6941	-48.68	-13	-35.68	-75.95	-56.8	2.61	10.73	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 1.4MHz / QPSK / RB Size 25 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-64.74	-13	-51.74	-75.56	-66.5	0.98	4.89	H
	2474	-60.31	-13	-47.31	-76.51	-62.2	1.28	5.32	H
	3298	-60.48	-13	-47.48	-77.6	-63.9	1.54	7.11	H
									H
									H
									H
	1648	-63.74	-13	-50.74	-74.94	-65.5	0.98	4.89	V
	2474	-59.61	-13	-46.61	-76.72	-61.5	1.28	5.32	V
	3298	-59.28	-13	-46.28	-77.64	-62.7	1.54	7.11	V
									V
									V
									V
Middle	1672	-64.82	-13	-51.82	-75.75	-66.5	0.99	4.82	H
	2509	-60.24	-13	-47.24	-76.74	-62.2	1.29	5.41	H
	3346	-60.28	-13	-47.28	-77.59	-63.9	1.56	7.32	H
									H
									H
									H
	1672	-63.42	-13	-50.42	-74.74	-65.1	0.99	4.82	V
	2509	-59.44	-13	-46.44	-76.69	-61.4	1.29	5.41	V
	3346	-58.48	-13	-45.48	-77.5	-62.1	1.56	7.32	V
									V
									V
									V
Highest	1696	-64.60	-13	-51.60	-75.77	-66.2	1.00	4.75	H
	2544	-60.92	-13	-47.92	-77.05	-62.9	1.30	5.44	H
	3393	-60.39	-13	-47.39	-77.69	-64.2	1.57	7.53	H
									H
									H
									H
	1696	-62.20	-13	-49.20	-74.36	-63.8	1.00	4.75	V
	2544	-59.52	-13	-46.52	-76.95	-61.5	1.30	5.44	V
	3393	-59.29	-13	-46.29	-77.59	-63.1	1.57	7.53	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3MHz / QPSK / RB Size 25 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-64.74	-13	-51.74	-75.61	-66.5	0.98	4.89	H
	2476	-60.91	-13	-47.91	-76.83	-62.8	1.28	5.33	H
	3302	-60.06	-13	-47.06	-77.5	-63.5	1.54	7.13	H
									H
									H
									H
	1648	-64.14	-13	-51.14	-75.13	-65.9	0.98	4.89	V
	2476	-59.31	-13	-46.31	-76.57	-61.2	1.28	5.33	V
	3302	-58.46	-13	-45.46	-77.42	-61.9	1.54	7.13	V
									V
									V
									V
Middle	1672	-64.82	-13	-51.82	-75.69	-66.5	0.99	4.82	H
	2509	-60.24	-13	-47.24	-76.6	-62.2	1.29	5.41	H
	3346	-60.48	-13	-47.48	-77.59	-64.1	1.56	7.32	H
									H
									H
									H
	1672	-63.82	-13	-50.82	-75	-65.5	0.99	4.82	V
	2509	-59.14	-13	-46.14	-76.63	-61.1	1.29	5.41	V
	3346	-59.58	-13	-46.58	-77.68	-63.2	1.56	7.32	V
									V
									V
									V
Highest	1696	-64.80	-13	-51.80	-76.07	-66.4	1.00	4.75	H
	2542	-60.22	-13	-47.22	-76.91	-62.2	1.30	5.43	H
	3390	-60.00	-13	-47.00	-77.4	-63.8	1.57	7.52	H
									H
									H
									H
	1696	-62.60	-13	-49.60	-74.13	-64.2	1.00	4.75	V
	2542	-58.92	-13	-45.92	-76.66	-60.9	1.30	5.43	V
	3390	-59.10	-13	-46.10	-77.46	-62.9	1.57	7.52	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 5MHz / QPSK / RB Size 25 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1656	-65.17	-13	-52.17	-75.36	-66.9	0.98	4.86	H
	2479	-60.30	-13	-47.30	-76.53	-62.2	1.28	5.34	H
	3306	-60.45	-13	-47.45	-77.52	-63.9	1.54	7.15	H
									H
									H
									H
	1656	-63.77	-13	-50.77	-75.1	-65.5	0.98	4.86	V
	2479	-59.30	-13	-46.30	-76.5	-61.2	1.28	5.34	V
	3306	-59.05	-13	-46.05	-77.52	-62.5	1.54	7.15	V
									V
									V
									V
Middle	1672	-64.42	-13	-51.42	-75.38	-66.1	0.99	4.82	H
	2509	-60.24	-13	-47.24	-76.49	-62.2	1.29	5.41	H
	3346	-59.88	-13	-46.88	-77.16	-63.5	1.56	7.32	H
									H
									H
									H
	1672	-63.82	-13	-50.82	-75.19	-65.5	0.99	4.82	V
	2509	-59.24	-13	-46.24	-76.46	-61.2	1.29	5.41	V
	3346	-58.58	-13	-45.58	-77.46	-62.2	1.56	7.32	V
									V
									V
									V
Highest	1696	-64.90	-13	-51.90	-76.02	-66.5	1.00	4.75	H
	2539	-60.52	-13	-47.52	-76.98	-62.5	1.30	5.43	H
	3386	-60.12	-13	-47.12	-77.48	-63.9	1.57	7.50	H
									H
									H
									H
	1696	-63.30	-13	-50.30	-75.14	-64.9	1.00	4.75	V
	2539	-59.52	-13	-46.52	-76.83	-61.5	1.30	5.43	V
	3386	-59.02	-13	-46.02	-77.74	-62.8	1.57	7.50	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK / RB Size 25 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1658	-64.77	-13	-51.77	-75.45	-66.5	0.98	4.86	H
	2487	-60.58	-13	-47.58	-76.48	-62.5	1.29	5.36	H
	3316	-60.01	-13	-47.01	-77.12	-63.5	1.55	7.19	H
									H
									H
									H
	1658	-63.47	-13	-50.47	-74.85	-65.2	0.98	4.86	V
	2487	-59.28	-13	-46.28	-76.44	-61.2	1.29	5.36	V
	3316	-58.91	-13	-45.91	-77.51	-62.4	1.55	7.19	V
									V
									V
									V
Middle	1672	-65.22	-13	-52.22	-75.66	-66.9	0.99	4.82	H
	2509	-60.24	-13	-47.24	-76.52	-62.2	1.29	5.41	H
	3346	-59.88	-13	-46.88	-77.36	-63.5	1.56	7.32	H
									H
									H
									H
	1672	-64.12	-13	-51.12	-75.2	-65.8	0.99	4.82	V
	2509	-58.94	-13	-45.94	-76.22	-60.9	1.29	5.41	V
	3346	-58.58	-13	-45.58	-77.26	-62.2	1.56	7.32	V
									V
									V
									V
Highest	1688	-64.77	-13	-51.77	-75.51	-66.4	1.00	4.77	H
	2532	-60.23	-13	-47.23	-76.68	-62.2	1.30	5.43	H
	3376	-59.76	-13	-46.76	-77.45	-63.5	1.57	7.45	H
									H
									H
									H
	1688	-64.27	-13	-51.27	-75.73	-65.9	1.00	4.77	V
	2532	-59.43	-13	-46.43	-76.67	-61.4	1.30	5.43	V
	3376	-58.76	-13	-45.76	-77.38	-62.5	1.57	7.45	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-47.66	-25	-22.66	-70.98	-55.02	2.34	9.70	H
	7500	-50.12	-25	-25.12	-76.95	-59.49	2.43	11.80	H
	9996	-48.51	-25	-23.51	-76.4	-58.02	2.70	12.20	H
									H
									H
									H
	5004	-50.41	-25	-25.41	-74.87	-57.77	2.34	9.70	V
	7500	-50.02	-25	-25.02	-78.67	-59.39	2.43	11.80	V
	9996	-47.51	-25	-22.51	-77.94	-57.02	2.70	12.20	V
									V
									V
									V
Middle	5064	-44.78	-25	-19.78	-68.19	-52.11	2.37	9.70	H
	7596	-48.93	-25	-23.93	-76.51	-58.39	2.40	11.86	H
	10128	-47.55	-25	-22.55	-75.73	-57.11	2.70	12.25	H
									H
									H
									H
	5064	-48.78	-25	-23.78	-73.26	-56.11	2.37	9.70	V
	7596	-48.83	-25	-23.83	-78.16	-58.29	2.40	11.86	V
	10128	-46.36	-25	-21.36	-77.14	-55.92	2.70	12.25	V
									V
									V
									V
Highest	5136	-45.78	-25	-20.78	-69.29	-53.06	2.42	9.70	H
	7692	-47.46	-25	-22.46	-74.84	-57.01	2.37	11.92	H
	10260	-49.72	-25	-24.72	-78.51	-59.33	2.69	12.30	H
									H
									H
									H
	5136	-49.08	-25	-24.08	-73.63	-56.36	2.42	9.70	V
	7692	-48.67	-25	-23.67	-77.74	-58.22	2.37	11.92	V
	10260	-46.42	-25	-21.42	-77.64	-56.03	2.69	12.30	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-46.66	-25	-21.66	-70.03	-54.02	2.34	9.70	H
	7500	-50.41	-25	-25.41	-77.07	-59.78	2.43	11.80	H
	10008	-47.54	-25	-22.54	-75.4	-57.05	2.70	12.20	H
									H
									H
									H
	5004	-50.86	-25	-25.86	-75.26	-58.22	2.34	9.70	V
	7500	-49.75	-25	-24.75	-78.33	-59.12	2.43	11.80	V
	10008	-47.62	-25	-22.62	-78.04	-57.13	2.70	12.20	V
									V
									V
									V
Middle	5064	-43.78	-25	-18.78	-67.19	-51.11	2.37	9.70	H
	7596	-49.17	-25	-24.17	-76.74	-58.63	2.40	11.86	H
	10128	-47.66	-25	-22.66	-75.97	-57.22	2.70	12.25	H
									H
									H
									H
	5064	-48.83	-25	-23.83	-73.31	-56.16	2.37	9.70	V
	7596	-48.56	-25	-23.56	-77.76	-58.02	2.40	11.86	V
	10128	-45.51	-25	-20.51	-76.37	-55.07	2.70	12.25	V
									V
									V
									V
Highest	5124	-45.52	-25	-20.52	-68.95	-52.81	2.41	9.70	H
	7680	-49.52	-25	-24.52	-77	-59.06	2.37	11.91	H
	10248	-50.42	-25	-25.42	-78.92	-60.02	2.69	12.30	H
									H
									H
									H
	5124	-48.04	-25	-23.04	-72.58	-55.33	2.41	9.70	V
	7680	-48.48	-25	-23.48	-77.51	-58.02	2.37	11.91	V
	10248	-47.51	-25	-22.51	-78.87	-57.11	2.69	12.30	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-47.66	-25	-22.66	-70.9	-55.02	2.34	9.70	H
	7500	-50.74	-25	-25.74	-77.61	-60.11	2.43	11.80	H
	10008	-48.71	-25	-23.71	-76.69	-58.22	2.70	12.20	H
									H
									H
									H
	5004	-50.27	-25	-25.27	-74.62	-57.63	2.34	9.70	V
	7500	-49.74	-25	-24.74	-78.32	-59.11	2.43	11.80	V
	10008	-47.78	-25	-22.78	-78.22	-57.29	2.70	12.20	V
									V
									V
									V
Middle	5052	-44.38	-25	-19.38	-67.8	-51.71	2.37	9.70	H
	7584	-50.61	-25	-25.61	-78.02	-60.06	2.40	11.85	H
	10116	-48.46	-25	-23.46	-76.64	-58.01	2.70	12.25	H
									H
									H
									H
	5052	-47.96	-25	-22.96	-72.39	-55.29	2.37	9.70	V
	7584	-49.76	-25	-24.76	-78.89	-59.21	2.40	11.85	V
	10116	-47.06	-25	-22.06	-77.88	-56.61	2.70	12.25	V
									V
									V
									V
Highest	5112	-45.92	-25	-20.92	-69.4	-53.22	2.40	9.70	H
	7668	-49.48	-25	-24.48	-76.76	-59.01	2.38	11.90	H
	10224	-50.52	-25	-25.52	-79.01	-60.11	2.69	12.29	H
									H
									H
									H
	5112	-50.36	-25	-25.36	-74.71	-57.66	2.40	9.70	V
	7668	-48.96	-25	-23.96	-78	-58.49	2.38	11.90	V
	10224	-48.43	-25	-23.43	-79.63	-58.02	2.69	12.29	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-48.33	-25	-23.33	-71.58	-55.69	2.34	9.70	H
	7500	-50.02	-25	-25.02	-76.95	-59.39	2.43	11.80	H
	10008	-49.37	-25	-24.37	-77.1	-58.88	2.70	12.20	H
									H
									H
									H
	5004	-50.93	-25	-25.93	-75.4	-58.29	2.34	9.70	V
	7506	-50.11	-25	-25.11	-78.66	-59.49	2.43	11.80	V
	10008	-48.04	-25	-23.04	-78.47	-57.55	2.70	12.20	V
									V
									V
									V
Middle	5052	-43.55	-25	-18.55	-66.95	-50.88	2.37	9.70	H
	7584	-50.32	-25	-25.32	-77.54	-59.77	2.40	11.85	H
	10104	-48.56	-25	-23.56	-76.81	-58.11	2.70	12.24	H
									H
									H
									H
	5052	-48.69	-25	-23.69	-72.98	-56.02	2.37	9.70	V
	7584	-49.74	-25	-24.74	-78.92	-59.19	2.40	11.85	V
	10104	-48.56	-25	-23.56	-79.24	-58.11	2.70	12.24	V
									V
									V
									V
Highest	5100	-48.98	-25	-23.98	-75.5	-56.29	2.39	9.70	H
	7656	-49.37	-25	-24.37	-76.81	-58.88	2.38	11.89	H
	10200	-50.93	-25	-25.93	-79.54	-60.51	2.70	12.28	H
									H
									H
									H
	5100	-50.81	-25	-25.81	-75.25	-58.12	2.39	9.70	V
	7656	-48.82	-25	-23.82	-77.86	-58.33	2.38	11.89	V
	10200	-48.64	-25	-23.64	-79.72	-58.22	2.70	12.28	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-65.03	-13	-52.03	-75.13	-67.10	0.94	5.15	H
	2332	-62.29	-13	-49.29	-76.46	-63.80	1.24	4.90	H
	3109	-60.25	-13	-47.25	-77.02	-62.90	1.48	6.28	H
									H
									H
									H
	1552	-64.43	-13	-51.43	-75.15	-66.50	0.94	5.15	V
	2332	-59.69	-13	-46.69	-76.24	-61.20	1.24	4.90	V
	3109	-58.55	-13	-45.55	-76.90	-61.20	1.48	6.28	V
									V
									V
									V
Middle	1560	-64.46	-42.15	-22.31	-74.97	-66.50	0.94	5.13	H
	2339	-62.37	-13	-49.37	-76.64	-63.90	1.24	4.92	H
	3119	-60.11	-13	-47.11	-77.07	-62.80	1.48	6.32	H
									H
									H
									H
	1560	-64.46	-42.15	-22.31	-75.01	-66.50	0.94	5.13	V
	2339	-59.97	-13	-46.97	-76.46	-61.50	1.24	4.92	V
	3119	-58.51	-13	-45.51	-76.94	-61.20	1.48	6.32	V
									V
									V
									V
Highest	1560	-64.86	-42.15	-22.71	-75.05	-66.90	0.94	5.13	H
	2347	-61.85	-13	-48.85	-76.18	-63.40	1.24	4.94	H
	3129	-60.37	-13	-47.37	-77.10	-63.10	1.49	6.37	H
									H
									H
									H
	1560	-64.06	-42.15	-21.91	-75.01	-66.10	0.94	5.13	V
	2347	-60.35	-13	-47.35	-76.57	-61.90	1.24	4.94	V
	3129	-58.77	-13	-45.77	-77.04	-61.50	1.49	6.37	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-64.43	-13	-51.43	-74.97	-66.5	0.94	5.15	H
	2332	-60.69	-13	-47.69	-75.13	-62.2	1.24	4.90	H
	3110	-58.55	-13	-45.55	-74.97	-61.2	1.48	6.28	H
									H
									H
									H
	1552	-64.43	-13	-51.43	-75.05	-66.5	0.94	5.15	V
	2332	-59.29	-13	-46.29	-75.38	-60.8	1.24	4.90	V
	3112	-56.54	-13	-43.54	-74.56	-59.2	1.48	6.29	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1408	-64.79	-13	-51.79	-74.66	-66.50	0.87	4.73	H
	2113	-62.88	-13	-49.88	-76.05	-63.80	1.17	4.24	H
	2817	-60.09	-13	-47.09	-76.61	-62.20	1.39	5.65	H
									H
									H
									H
	1408	-64.79	-13	-51.79	-74.35	-66.50	0.87	4.73	V
	2113	-60.58	-13	-47.58	-75.90	-61.50	1.17	4.24	V
	2817	-58.39	-13	-45.39	-76.23	-60.50	1.39	5.65	V
									V
									V
									V
Middle	1415	-64.75	-13	-51.75	-74.77	-66.50	0.87	4.77	H
	2123	-62.95	-13	-49.95	-76.12	-63.90	1.17	4.27	H
	2831	-60.38	-13	-47.38	-76.70	-62.50	1.39	5.66	H
									H
									H
									H
	1415	-64.75	-13	-51.75	-74.80	-66.50	0.87	4.77	V
	2123	-61.15	-13	-48.15	-76.36	-62.10	1.17	4.27	V
	2831	-57.78	-13	-44.78	-75.21	-59.90	1.39	5.66	V
									V
									V
									V
Highest	1424	-53.34	-13	-40.34	-59.06	-55.14	0.88	4.83	H
	2136	-32.39	-13	-19.39	-41.39	-33.37	1.18	4.31	H
	2848	-55.28	-13	-42.28	-66.34	-57.41	1.40	5.68	H
									H
									H
									H
	1424	-54.54	-13	-41.54	-58.49	-56.34	0.88	4.83	V
	2136	-36.26	-13	-23.26	-46.17	-37.24	1.18	4.31	V
	2848	-54.28	-13	-41.28	-66.11	-56.41	1.40	5.68	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-65.24	-13	-52.24	-75.10	-66.90	0.87	4.68	H
	2106	-62.60	-13	-49.60	-75.91	-63.50	1.17	4.22	H
	2808	-60.39	-13	-47.39	-77.14	-62.50	1.39	5.65	H
									H
									H
									H
	1400	-65.24	-13	-52.24	-74.94	-66.90	0.87	4.68	V
	2106	-61.50	-13	-48.50	-76.52	-62.40	1.17	4.22	V
	2808	-59.09	-13	-46.09	-76.79	-61.20	1.39	5.65	V
									V
									V
									V
Middle	1408	-64.79	-13	-51.79	-74.75	-66.50	0.87	4.73	H
	2116	-62.87	-13	-49.87	-76.17	-63.80	1.17	4.25	H
	2822	-59.98	-13	-46.98	-76.86	-62.10	1.39	5.66	H
									H
									H
									H
	1408	-64.79	-13	-51.79	-74.59	-66.50	0.87	4.73	V
	2116	-60.97	-13	-47.97	-76.37	-61.90	1.17	4.25	V
	2822	-58.08	-13	-45.08	-75.94	-60.20	1.39	5.66	V
									V
									V
									V
Highest	1416	-64.75	-13	-51.75	-74.72	-66.50	0.87	4.78	H
	2119	-62.96	-13	-49.96	-76.54	-63.90	1.17	4.26	H
	2826	-60.08	-13	-47.08	-76.60	-62.20	1.39	5.66	H
									H
									H
									H
	1416	-64.75	-13	-51.75	-74.53	-66.50	0.87	4.78	V
	2119	-61.56	-13	-48.56	-76.46	-62.50	1.17	4.26	V
	2826	-57.98	-13	-44.98	-75.35	-60.10	1.39	5.66	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5136	-49.62	-25	-24.62	-73.1	-56.9	2.42	9.70	H
	7716	-47.93	-25	-22.93	-75.75	-57.5	2.36	11.93	H
	10284	-46.68	-25	-21.68	-75.88	-56.3	2.69	12.31	H
									H
									H
									H
	5136	-45.12	-25	-20.12	-69.94	-52.4	2.42	9.70	V
	7716	-48.73	-25	-23.73	-77.92	-58.3	2.36	11.93	V
	10284	-45.98	-25	-20.98	-77.57	-55.6	2.69	12.31	V
									V
									V
									V
Middle	5184	-47.54	-25	-22.54	-70.62	-54.8	2.44	9.70	H
	7776	-48.97	-25	-23.97	-76.49	-58.6	2.34	11.97	H
	10368	-46.45	-25	-21.45	-75.62	-56.1	2.69	12.35	H
									H
									H
									H
	5184	-42.34	-25	-17.34	-67.03	-49.6	2.44	9.70	V
	7776	-49.97	-25	-24.97	-78.87	-59.6	2.34	11.97	V
	10368	-46.45	-25	-21.45	-78.23	-56.1	2.69	12.35	V
									V
									V
									V
Highest	5232	-45.17	-25	-20.17	-68.95	-52.4	2.47	9.70	H
	7845	-51.01	-25	-26.01	-78.4	-60.7	2.32	12.01	H
	10464	-48.11	-25	-23.11	-77.87	-57.8	2.69	12.39	H
									H
									H
									H
	5232	-41.37	-25	-16.37	-66.1	-48.6	2.47	9.70	V
	7845	-50.11	-25	-25.11	-79.13	-59.8	2.32	12.01	V
	10464	-45.51	-25	-20.51	-77.46	-55.2	2.69	12.39	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5136	-47.92	-25	-22.92	-71.5	-55.2	2.42	9.70	H
	7716	-47.23	-25	-22.23	-74.97	-56.8	2.36	11.93	H
	10284	-46.58	-25	-21.58	-75.77	-56.2	2.69	12.31	H
									H
									H
									H
	5136	-44.52	-25	-19.52	-69.58	-51.8	2.42	9.70	V
	7716	-49.03	-25	-24.03	-78.19	-58.6	2.36	11.93	V
	10284	-46.58	-25	-21.58	-78.09	-56.2	2.69	12.31	V
									V
									V
									V
Middle	5184	-47.54	-25	-22.54	-71.06	-54.8	2.44	9.70	H
	7776	-48.57	-25	-23.57	-76.34	-58.2	2.34	11.97	H
	10368	-48.15	-25	-23.15	-77.6	-57.8	2.69	12.35	H
									H
									H
									H
	5184	-42.04	-25	-17.04	-66.72	-49.3	2.44	9.70	V
	7776	-49.97	-25	-24.97	-79.05	-59.6	2.34	11.97	V
	10368	-46.55	-25	-21.55	-78.38	-56.2	2.69	12.35	V
									V
									V
									V
Highest	5220	-44.56	-25	-19.56	-68.2	-51.8	2.46	9.70	H
	7836	-49.22	-25	-24.22	-76.81	-58.9	2.32	12.00	H
	10440	-48.52	-25	-23.52	-77.9	-58.2	2.69	12.38	H
									H
									H
									H
	5220	-40.96	-25	-15.96	-65.67	-48.2	2.46	9.70	V
	7830	-49.22	-25	-24.22	-78.2	-58.9	2.32	12.00	V
	10440	-46.32	-25	-21.32	-78.39	-56	2.69	12.38	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5136	-46.82	-25	-21.82	-70.34	-54.1	2.42	9.70	H
	7716	-48.03	-25	-23.03	-76.59	-57.6	2.36	11.93	H
	10284	-47.48	-25	-22.48	-76.66	-57.1	2.69	12.31	H
									H
									H
									H
	5136	-44.22	-25	-19.22	-69.2	-51.5	2.42	9.70	V
	7716	-48.33	-25	-23.33	-77.72	-57.9	2.36	11.93	V
	10284	-45.18	-25	-20.18	-76.75	-54.8	2.69	12.31	V
									V
									V
									V
Middle	5172	-46.94	-25	-21.94	-70.43	-54.2	2.44	9.70	H
	7764	-48.19	-25	-23.19	-75.88	-57.8	2.34	11.96	H
	10356	-48.15	-25	-23.15	-77.58	-57.8	2.69	12.34	H
									H
									H
									H
	5172	-43.54	-25	-18.54	-68.04	-50.8	2.44	9.70	V
	7764	-49.29	-25	-24.29	-78.67	-58.9	2.34	11.96	V
	10356	-46.45	-25	-21.45	-78.14	-56.1	2.69	12.34	V
									V
									V
									V
Highest	5208	-44.86	-25	-19.86	-68.52	-52.1	2.46	9.70	H
	7812	-49.24	-25	-24.24	-76.8	-58.9	2.33	11.99	H
	10428	-46.92	-25	-21.92	-76.47	-56.6	2.69	12.37	H
									H
									H
									H
	5208	-41.96	-25	-16.96	-66.63	-49.2	2.46	9.70	V
	7812	-50.64	-25	-25.64	-79.39	-60.3	2.33	11.99	V
	10428	-45.62	-25	-20.62	-77.96	-55.3	2.69	12.37	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5136	-48.32	-25	-23.32	-71.6	-55.6	2.42	9.70	H
	7716	-47.33	-25	-22.33	-74.73	-56.9	2.36	11.93	H
	10284	-47.88	-25	-22.88	-76.76	-57.5	2.69	12.31	H
									H
									H
									H
	5136	-44.52	-25	-19.52	-69.26	-51.8	2.42	9.70	V
	7716	-49.33	-25	-24.33	-78.54	-58.9	2.36	11.93	V
	10284	-46.48	-25	-21.48	-77.74	-56.1	2.69	12.31	V
									V
									V
									V
Middle	5172	-44.34	-25	-19.34	-68.47	-51.6	2.44	9.70	H
	7752	-49.00	-25	-24.00	-76.62	-58.6	2.35	11.95	H
	10344	-48.86	-25	-23.86	-78.08	-58.5	2.69	12.34	H
									H
									H
									H
	5172	-42.34	-25	-17.34	-67.13	-49.6	2.44	9.70	V
	7752	-49.50	-25	-24.50	-78.54	-59.1	2.35	11.95	V
	10344	-46.76	-25	-21.76	-78.59	-56.4	2.69	12.34	V
									V
									V
									V
Highest	5204	-51.35	-25	-26.35	-75.06	-58.6	2.45	9.70	H
	7800	-52.65	-25	-27.65	-80.27	-62.3	2.33	11.98	H
	10400	-51.93	-25	-26.93	-81.32	-61.6	2.69	12.36	H
									H
									H
									H
	5204	-46.55	-25	-21.55	-71.38	-53.8	2.45	9.70	V
	7800	-51.55	-25	-26.55	-80.6	-61.2	2.33	11.98	V
	10400	-49.43	-25	-24.43	-81.25	-59.1	2.69	12.36	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-46.75	-25	-21.75	-70.05	-54.1	2.33	9.68	H
	7488	-47.56	-25	-22.56	-74.39	-56.9	2.43	11.78	H
	9984	-47.08	-25	-22.08	-75.13	-56.6	2.69	12.21	H
									H
									H
									H
	4992	-40.85	-25	-15.85	-65.38	-48.2	2.33	9.68	V
	7488	-49.26	-25	-24.26	-77.89	-58.6	2.43	11.78	V
	9984	-46.58	-25	-21.58	-77.01	-56.1	2.69	12.21	V
									V
									V
									V
Middle	5184	-46.84	-25	-21.84	-70.3	-54.1	2.44	9.70	H
	7776	-48.07	-25	-23.07	-75.7	-57.7	2.34	11.97	H
	10368	-48.55	-25	-23.55	-77.91	-58.2	2.69	12.35	H
									H
									H
									H
	5184	-41.84	-25	-16.84	-66.45	-49.1	2.44	9.70	V
	7776	-49.57	-25	-24.57	-78.43	-59.2	2.34	11.97	V
	10368	-46.35	-25	-21.35	-78.22	-56	2.69	12.35	V
									V
									V
									V
Highest	5376	-47.25	-25	-22.25	-71.9	-54.4	2.55	9.70	H
	8052	-51.04	-25	-26.04	-78.78	-60.9	2.28	12.14	H
	10740	-48.04	-25	-23.04	-78.46	-57.8	2.69	12.45	H
									H
									H
									H
	5376	-46.75	-25	-21.75	-71.95	-53.9	2.55	9.70	V
	8055	-49.04	-25	-24.04	-78.82	-58.9	2.28	12.14	V
	10740	-47.44	-25	-22.44	-80	-57.2	2.69	12.45	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-46.95	-25	-21.95	-69.78	-54.3	2.33	9.68	H
	7488	-47.86	-25	-22.86	-73.99	-57.2	2.43	11.78	H
	9984	-47.68	-25	-22.68	-74.96	-57.2	2.69	12.21	H
									H
									H
									H
	4992	-39.85	-25	-14.85	-64.26	-47.2	2.33	9.68	V
	7488	-49.76	-25	-24.76	-77.41	-59.1	2.43	11.78	V
	9984	-46.58	-25	-21.58	-76.3	-56.1	2.69	12.21	V
									V
									V
									V
Middle	5172	-45.94	-25	-20.94	-68.59	-53.2	2.44	9.70	H
	7765	-49.88	-25	-24.88	-76.9	-59.5	2.34	11.96	H
	10354	-48.25	-25	-23.25	-77.07	-57.9	2.69	12.34	H
									H
									H
									H
	5172	-42.84	-25	-17.84	-67.07	-50.1	2.44	9.70	V
	7765	-49.78	-25	-24.78	-77.8	-59.4	2.34	11.96	V
	10354	-46.45	-25	-21.45	-77.42	-56.1	2.69	12.34	V
									V
									V
									V
Highest	5364	-48.05	-25	-23.05	-71.96	-55.2	2.55	9.70	H
	8041	-51.94	-25	-26.94	-78.95	-61.8	2.28	12.13	H
	10722	-48.85	-25	-23.85	-78.46	-58.6	2.69	12.44	H
									H
									H
									H
	5364	-48.05	-25	-23.05	-73.04	-55.2	2.55	9.70	V
	8041	-50.04	-25	-25.04	-78.79	-59.9	2.28	12.13	V
	10722	-47.75	-25	-22.75	-79.95	-57.5	2.69	12.44	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-55.15	-25	-30.15	-78.44	-62.5	2.33	9.68	H
	7490	-52.95	-25	-27.95	-78.86	-62.3	2.43	11.78	H
	9987	-51.69	-25	-26.69	-79.5	-61.2	2.69	12.21	H
									H
									H
									H
	4992	-52.85	-25	-27.85	-77.12	-60.2	2.33	9.68	V
	7490	-50.85	-25	-25.85	-78.78	-60.2	2.43	11.78	V
	9987	-49.89	-25	-24.89	-79.64	-59.4	2.69	12.21	V
									V
									V
									V
Middle	5172	-54.84	-25	-29.84	-77.55	-62.1	2.44	9.70	H
	7759	-51.89	-25	-26.89	-78.92	-61.5	2.35	11.96	H
	10345	-51.86	-25	-26.86	-80.12	-61.5	2.69	12.34	H
									H
									H
									H
	5172	-52.94	-25	-27.94	-77.13	-60.2	2.44	9.70	V
	7759	-50.29	-25	-25.29	-78.9	-59.9	2.35	11.96	V
	10345	-48.86	-25	-23.86	-79.9	-58.5	2.69	12.34	V
									V
									V
									V
Highest	5352	-53.74	-25	-28.74	-77.9	-60.9	2.54	9.70	H
	8027	-52.25	-25	-27.25	-79.08	-62.1	2.27	12.12	H
	10703	-50.15	-25	-25.15	-79.73	-59.9	2.69	12.44	H
									H
									H
									H
	5352	-52.94	-25	-27.94	-77.85	-60.1	2.54	9.70	V
	8027	-50.05	-25	-25.05	-79.16	-59.9	2.27	12.12	V
	10703	-47.75	-25	-22.75	-79.61	-57.5	2.69	12.44	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-55.15	-25	-30.15	-78.18	-62.5	2.33	9.68	H
	7491	-52.55	-25	-27.55	-78.81	-61.9	2.43	11.78	H
	9988	-52.39	-25	-27.39	-79.72	-61.9	2.69	12.21	H
									H
									H
									H
	4992	-54.15	-25	-29.15	-77.91	-61.5	2.33	9.68	V
	7491	-51.15	-25	-26.15	-79.06	-60.5	2.43	11.78	V
	9988	-49.59	-25	-24.59	-79.27	-59.1	2.69	12.21	V
									V
									V
									V
Middle	5172	-54.64	-25	-29.64	-77.46	-61.9	2.44	9.70	H
	7752	-51.70	-25	-26.70	-78.85	-61.3	2.35	11.95	H
	10336	-51.56	-25	-26.56	-80.08	-61.2	2.69	12.33	H
									H
									H
									H
	5172	-53.24	-25	-28.24	-76.98	-60.5	2.44	9.70	V
	7752	-50.20	-25	-25.20	-78.39	-59.8	2.35	11.95	V
	10336	-48.96	-25	-23.96	-79.81	-58.6	2.69	12.33	V
									V
									V
									V
Highest	5340	-54.63	-25	-29.63	-78.39	-61.8	2.53	9.70	H
	8013	-52.66	-25	-27.66	-79.54	-62.5	2.27	12.11	H
	10684	-50.05	-25	-25.05	-79.27	-59.8	2.69	12.44	H
									H
									H
									H
	5340	-53.33	-25	-28.33	-78.33	-60.5	2.53	9.70	V
	8013	-50.36	-25	-25.36	-79.38	-60.2	2.27	12.11	V
	10684	-47.45	-25	-22.45	-79.43	-57.2	2.69	12.44	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**<WPC Charging Mode>**

LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-46.35	-25	-21.35	-70.18	-53.7	2.33	9.68	H
	7488	-51.46	-25	-26.46	-78.53	-60.8	2.43	11.78	H
	9984	-47.28	-25	-22.28	-75.25	-56.8	2.69	12.21	H
									H
									H
									H
	4992	-44.45	-25	-19.45	-69.33	-51.8	2.33	9.68	V
	7488	-46.86	-25	-21.86	-75.47	-56.2	2.43	11.78	V
	9984	-42.58	-25	-17.58	-73.2	-52.1	2.69	12.21	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.