FCC RF Test Report

APPLICANT	**:**	**Zebra Technologies Corporation**
EQUIPMENT	**:**	**Enterprise Tablet**
BRAND NAME	**:**	**Zebra**
MODEL NAME	**:**	**ET55BT**
FCC ID	**:**	**UZ7ET55BT**
STANDARD	**:**	**47 CFR Part 2, 22(H), 24(E), 27**
CLASSIFICATION	**:**	**PCS Licensed Transmitter (PCB)**

This is a partial report which is included the Conducted Output Power, Effective Radiated Power, Effective Isotropic Radiated Power, and Radiated Spurious Emission test items. The product was received on Jun. 01, 2016 and completely tested on Jul. 07, 2016. 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-D-2010 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

Testing Laboratory
1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG660115B	Rev. 01	Initial issue of report	Aug. 04, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt		
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 13) (Band 17)	ERP < 3 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)(Band 25)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		
4.4	§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)	< $43+10\log_{10}(P[Watts])$	PASS	Under limit 6.68 dB at 5730.750 MHz

1 General Description

1.1 Applicant

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.2 Manufacturer

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Tablet
Brand Name	Zebra
Model Name	ET55BT
FCC ID	UZ7ET55BT
Integrated the WWAN Module	Brand Name: Sierra Model Name: EM7355 FCC ID: N7NEM7355
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.0 EDR/LE
HW Version	DV1
SW Version	5.1.1
FW Version	SWI9X15C_05.05.58.00
MFD	31-Mar-16
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
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 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 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 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 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 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.33 dBm LTE Band 4 : 23.36 dBm LTE Band 5 : 22.86 dBm LTE Band 13 : 22.73 dBm LTE Band 17 : 22.81 dBm LTE Band 25 : 23.40 dBm
Antenna Gain	LTE Band 2 : 0.64 dBi LTE Band 4 : 1.69 dBi LTE Band 5 : 0.70 dBi LTE Band 13 : 1.47 dBi LTE Band 17 : -1.51 dBi LTE Band 25 : 0.64 dBi
Type of Modulation	QPSK / 16QAM / 64QAM (Downlink Only)

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)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.2438	0.1991
3	0.2495	0.1954
5	0.2312	0.1832
10	0.2307	0.1832
15	0.2312	0.1837
20	0.2307	0.1845
LTE Band 25	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.2535	0.2014
3	0.2518	0.2014
5	0.2360	0.1854
10	0.2344	0.1862
15	0.2388	0.1858
20	0.2339	0.1849
LTE Band 4	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.3177	0.2553
3	0.3199	0.2500
5	0.3027	0.2399
10	0.3034	0.2415
15	0.3006	0.2404
20	0.3027	0.2399
LTE Band 5	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	0.1377	0.1107
3	0.1368	0.1089
5	0.1377	0.1091
10	0.1384	0.1089

LTE Band 13	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
5	0.1600	0.1282
10	0.1603	0.1259
LTE Band 17	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
5	0.0820	0.0656
10	0.0822	0.0665

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 1st 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.**
	TH05-HY

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH10-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-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

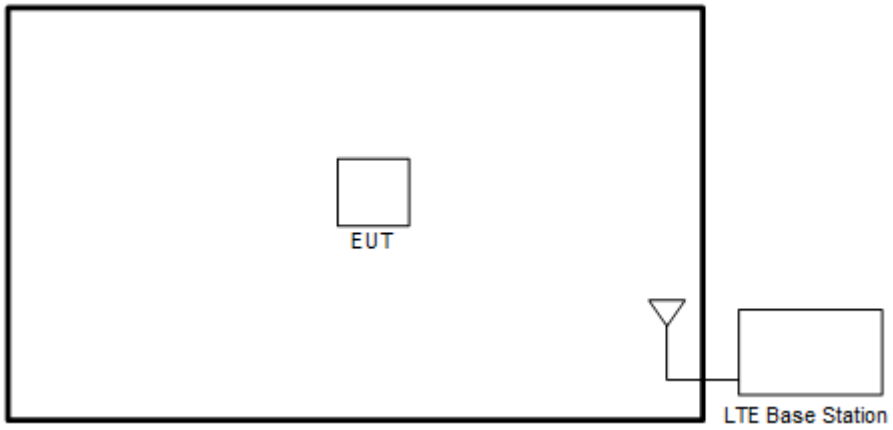
2.1 Test Mode

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	v	v	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	v
	5	v	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	v	v
	25	v	v	v	v	v	v	v	v	v	v	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
	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
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v		v			v	v	v
	13	-	-	v	v	-	-	v		v			v	v	v
	17	-	-	v	v	-	-	v		v			v	v	v
	25	v	v	v	v	v	v	v		v			v	v	v
Note	1. The mark “v “ 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



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 17 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

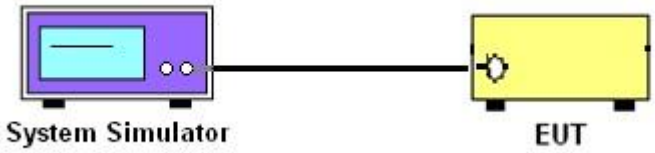
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

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.

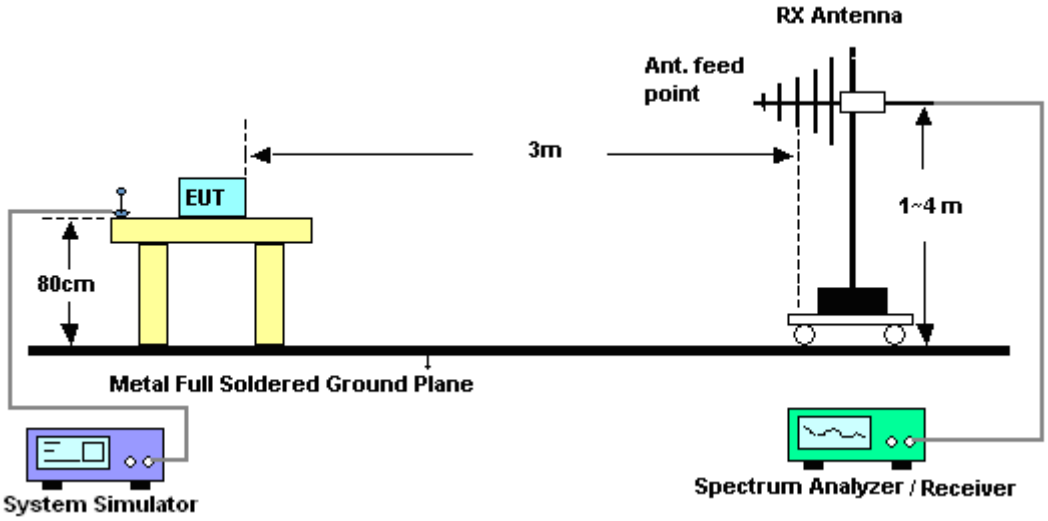
4 Radiated Test Items

4.1 Measuring Instruments

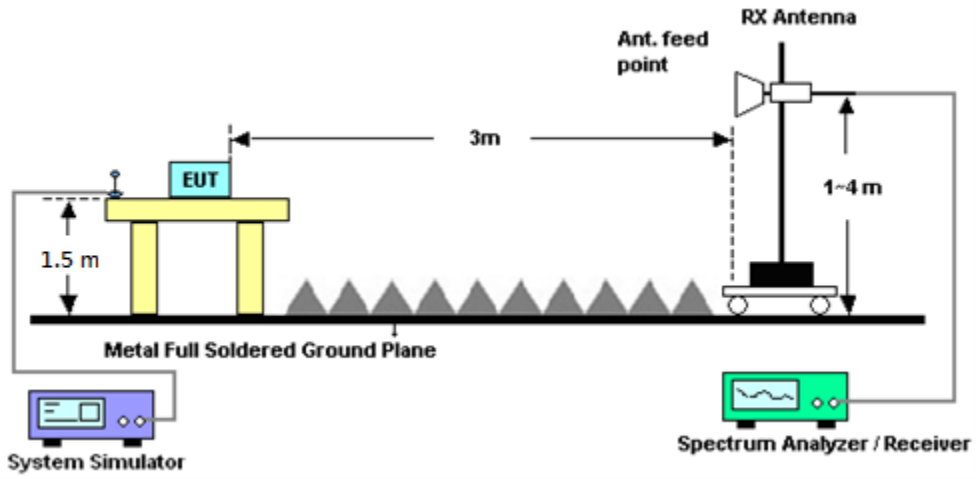
See list of measuring instruments of this test report.

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 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. 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 LTE Band13,17

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.

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
12. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13. ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201381760	LTE	May. 10, 2016	Jun. 30, 2016	May. 09, 2017	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 16, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Jan. 13, 2016	Jun. 28, 2016 ~ Jul. 07, 2016	Jan. 12, 2017	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Sep. 29, 2016	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 13, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Nov. 12, 2016	Radiation (03CH10-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1902246	1GHz~18GHz	Nov. 16, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 15, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Oct. 14, 2016	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 28, 2016 ~ Jul. 07, 2016	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jun. 28, 2016 ~ Jul. 07, 2016	N/A	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Jun. 28, 2016 ~ Jul. 07, 2016	Apr. 14, 2017	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Jun. 28, 2016 ~ Jul. 07, 2016	Nov. 01, 2016	Radiation (03CH10-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))	**5.50**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

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
20	1	0	QPSK	22.95	22.99	22.96
20	1	49		22.76	22.88	22.84
20	1	99		22.71	22.83	22.80
20	50	0		21.87	21.94	21.90
20	50	24		21.86	21.91	21.88
20	50	50		21.78	21.83	21.85
20	100	0		21.80	21.94	21.91
20	1	0	16-QAM	21.96	22.02	21.86
20	1	49		21.77	21.91	21.85
20	1	99		21.82	21.84	21.94
20	50	0		20.89	20.91	20.88
20	50	24		20.79	20.92	20.87
20	50	50		20.89	20.82	20.93
20	100	0		20.83	20.90	20.96
15	1	0	QPSK	23.00	22.85	22.94
15	1	37		22.77	22.88	22.93
15	1	74		22.66	22.78	22.82
15	36	0		21.85	21.90	21.92
15	36	20		21.78	21.89	21.93
15	36	39		21.81	21.85	21.94
15	75	0		21.71	21.83	21.82
15	1	0	16-QAM	22.00	21.95	21.98
15	1	37		21.79	21.94	21.91
15	1	74		21.74	21.82	21.81
15	36	0		20.92	20.99	20.92
15	36	20		20.82	20.97	21.02
15	36	39		20.79	20.91	21.00
15	75	0		20.75	20.84	20.86

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.99	22.90	22.95
10	1	25		22.77	22.87	22.94
10	1	49		22.67	22.82	22.86
10	25	0		21.97	21.90	21.97
10	25	12		21.79	22.00	21.93
10	25	25		21.84	21.98	21.93
10	50	0		21.77	21.87	21.97
10	1	0	16-QAM	21.99	21.96	21.97
10	1	25		21.78	21.96	21.93
10	1	49		21.67	21.88	21.86
10	25	0		20.93	20.98	20.98
10	25	12		20.86	20.98	21.05
10	25	25		20.78	20.88	20.95
10	50	0		20.78	20.87	21.00
5	1	0	QPSK	23.00	22.87	22.94
5	1	12		22.89	22.85	22.91
5	1	24		22.74	22.87	22.90
5	12	0		22.02	21.95	21.93
5	12	7		22.01	21.97	21.99
5	12	13		21.95	21.96	22.01
5	25	0		21.90	21.96	21.98
5	1	0	16-QAM	21.99	21.91	21.95
5	1	12		21.90	21.95	21.95
5	1	24		21.74	21.93	21.92
5	12	0		21.08	21.04	20.95
5	12	7		21.08	20.98	21.01
5	12	13		21.05	20.98	21.03
5	25	0		20.98	20.95	20.95

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.33	23.22	23.12
3	1	8		23.26	23.22	23.10
3	1	14		23.25	23.24	23.18
3	8	0		22.36	22.26	22.12
3	8	4		22.39	22.26	22.16
3	8	7		22.39	22.29	22.15
3	15	0		22.36	22.26	22.08
3	1	0	16-QAM	22.27	22.20	22.08
3	1	8		22.24	22.19	22.11
3	1	14		22.22	22.26	22.11
3	8	0		21.27	21.17	21.05
3	8	4		21.29	21.18	21.05
3	8	7		21.31	21.20	21.09
3	15	0		21.34	21.24	21.11
1.4	1	0	QPSK	23.23	23.20	23.09
1.4	1	3		23.21	23.21	23.10
1.4	1	5		23.19	23.10	23.16
1.4	3	0		23.21	23.19	23.10
1.4	3	1		23.20	23.21	23.10
1.4	3	3		23.17	23.21	23.15
1.4	6	0		22.47	22.30	22.13
1.4	1	0	16-QAM	22.35	22.20	22.05
1.4	1	3		22.24	22.23	22.09
1.4	1	5		22.20	22.26	22.08
1.4	3	0		22.22	22.28	22.13
1.4	3	1		22.18	22.26	22.12
1.4	3	3		22.12	22.27	22.17
1.4	6	0		21.41	21.28	21.18

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.05	22.97	22.92
20	1	49		23.04	22.94	22.83
20	1	99		23.03	22.89	22.82
20	50	0		22.14	22.02	21.95
20	50	24		22.09	21.99	21.87
20	50	50		21.96	21.90	21.86
20	100	0		21.96	21.92	21.90
20	1	0	16-QAM	22.02	21.96	21.99
20	1	49		22.03	21.95	21.87
20	1	99		21.93	21.90	21.84
20	50	0		21.08	20.98	20.88
20	50	24		21.04	20.93	20.88
20	50	50		20.93	20.87	20.89
20	100	0		20.91	20.94	20.93
15	1	0	QPSK	**23.14**	22.93	22.98
15	1	37		22.93	22.95	22.89
15	1	74		22.90	22.82	22.83
15	36	0		22.04	21.97	21.87
15	36	20		22.03	21.98	21.91
15	36	39		21.96	21.91	21.98
15	75	0		21.95	21.88	21.89
15	1	0	16-QAM	22.05	21.95	22.00
15	1	37		21.94	22.02	21.89
15	1	74		21.89	21.92	21.82
15	36	0		20.96	20.98	20.89
15	36	20		20.98	20.97	20.91
15	36	39		20.92	20.91	21.00
15	75	0		20.88	20.88	20.83

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.06	22.98	22.92
10	1	25		22.99	22.94	22.87
10	1	49		22.98	22.87	22.86
10	25	0		22.01	21.99	21.90
10	25	12		22.06	22.01	21.98
10	25	25		22.01	21.99	22.02
10	50	0		21.99	21.97	21.95
10	1	0	16-QAM	22.06	21.98	21.92
10	1	25		21.95	21.98	21.86
10	1	49		21.94	21.90	21.85
10	25	0		21.03	20.98	20.90
10	25	12		21.02	20.99	20.97
10	25	25		20.90	20.97	20.95
10	50	0		20.93	20.94	20.96
5	1	0	QPSK	23.09	22.97	23.00
5	1	12		22.99	22.96	22.95
5	1	24		22.92	22.94	22.90
5	12	0		22.04	22.07	21.98
5	12	7		21.99	22.02	22.01
5	12	13		21.94	22.03	21.99
5	25	0		22.07	21.97	22.01
5	1	0	16-QAM	22.04	21.96	22.01
5	1	12		21.99	22.00	21.94
5	1	24		21.94	21.98	21.92
5	12	0		21.06	21.07	20.98
5	12	7		21.09	21.04	21.02
5	12	13		20.96	21.03	21.00
5	25	0		21.02	20.99	21.02

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.37	23.33	23.34
3	1	8		23.34	23.32	23.33
3	1	14		23.33	23.33	23.31
3	8	0		22.34	22.32	22.30
3	8	4		22.33	22.29	22.24
3	8	7		22.31	22.32	22.22
3	15	0		22.32	22.39	22.36
3	1	0	16-QAM	22.40	22.30	22.35
3	1	8		22.33	22.38	22.36
3	1	14		22.20	22.37	22.32
3	8	0		21.34	21.33	21.34
3	8	4		21.34	21.33	21.39
3	8	7		21.37	21.36	21.36
3	15	0		21.34	21.41	21.37
1.4	1	0	QPSK	23.40	23.30	23.33
1.4	1	3		23.34	23.34	23.24
1.4	1	5		23.37	23.37	23.27
1.4	3	0		23.35	23.32	23.37
1.4	3	1		23.30	23.34	23.26
1.4	3	3		23.35	23.34	23.29
1.4	6	0		22.40	22.43	22.39
1.4	1	0	16-QAM	22.29	22.36	22.36
1.4	1	3		22.40	22.37	22.28
1.4	1	5		22.32	22.37	22.34
1.4	3	0		22.36	22.24	22.21
1.4	3	1		22.36	22.38	22.35
1.4	3	3		22.38	22.30	22.38
1.4	6	0		21.40	21.42	21.41

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.98	23.12	23.08
20	1	49		22.82	22.97	23.05
20	1	99		22.90	22.97	22.93
20	50	0		21.99	22.16	22.15
20	50	24		21.82	22.06	22.13
20	50	50		21.94	22.05	21.90
20	100	0		21.97	22.01	22.00
20	1	0	16-QAM	22.04	22.05	21.99
20	1	49		21.91	22.05	22.11
20	1	99		21.95	22.05	21.93
20	50	0		20.99	21.03	21.18
20	50	24		20.88	21.06	21.15
20	50	50		20.92	21.12	20.96
20	100	0		20.97	21.05	21.00
15	1	0	QPSK	23.00	23.02	23.09
15	1	37		22.94	22.98	23.00
15	1	74		22.91	22.98	22.88
15	36	0		22.01	22.00	22.14
15	36	20		21.96	22.06	22.07
15	36	39		21.89	22.09	21.83
15	75	0		21.91	22.00	21.91
15	1	0	16-QAM	22.03	22.07	22.12
15	1	37		21.88	22.02	22.03
15	1	74		21.92	22.02	21.92
15	36	0		21.03	21.04	21.18
15	36	20		21.02	21.09	21.11
15	36	39		20.93	21.11	20.95
15	75	0		20.87	21.03	21.04

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.00	23.06	23.13
10	1	25		22.99	22.99	22.97
10	1	49		22.88	22.93	22.95
10	25	0		22.07	22.07	22.08
10	25	12		22.07	22.04	21.97
10	25	25		22.06	22.10	21.94
10	50	0		22.01	22.05	21.96
10	1	0	16-QAM	22.05	22.12	22.14
10	1	25		21.99	22.03	21.95
10	1	49		21.90	21.96	21.98
10	25	0		21.03	21.08	21.09
10	25	12		21.04	21.08	20.98
10	25	25		21.04	21.09	20.93
10	50	0		20.99	21.11	20.97
5	1	0	QPSK	23.02	22.97	23.12
5	1	12		22.99	22.96	22.89
5	1	24		22.93	23.01	22.97
5	12	0		22.06	22.08	21.98
5	12	7		22.07	22.07	21.99
5	12	13		22.08	22.04	21.97
5	25	0		22.01	22.03	21.98
5	1	0	16-QAM	22.01	22.04	22.11
5	1	12		22.00	22.03	21.91
5	1	24		21.95	22.06	21.98
5	12	0		21.09	21.10	21.02
5	12	7		21.08	21.11	21.03
5	12	13		21.09	21.15	21.07
5	25	0		21.01	21.06	20.98

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.35	23.25	**23.36**
3	1	8		23.30	23.28	23.22
3	1	14		23.31	23.31	23.29
3	8	0		22.41	22.31	22.23
3	8	4		22.33	22.34	22.24
3	8	7		22.42	22.35	22.23
3	15	0		22.33	22.27	22.20
3	1	0	16-QAM	22.23	22.23	22.29
3	1	8		22.24	22.28	22.24
3	1	14		22.27	22.26	22.19
3	8	0		21.24	21.26	21.22
3	8	4		21.27	21.26	21.24
3	8	7		21.25	21.24	21.17
3	15	0		21.34	21.29	21.22
1.4	1	0	QPSK	23.22	23.17	23.33
1.4	1	3		23.28	23.22	23.30
1.4	1	5		23.25	23.29	23.27
1.4	3	0		23.24	23.23	23.31
1.4	3	1		23.27	23.24	23.29
1.4	3	3		23.22	23.20	23.29
1.4	6	0		22.26	22.38	22.31
1.4	1	0	16-QAM	22.22	22.21	22.22
1.4	1	3		22.25	22.26	22.25
1.4	1	5		22.28	22.26	22.26
1.4	3	0		22.26	22.32	22.36
1.4	3	1		22.28	22.31	22.38
1.4	3	3		22.30	22.32	22.37
1.4	6	0		21.33	21.37	21.31

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.82	22.86	22.82
10	1	25		22.73	22.72	22.72
10	1	49		22.71	22.67	22.72
10	25	0		21.84	21.86	21.83
10	25	12		21.83	21.74	21.82
10	25	25		21.83	21.69	21.82
10	50	0		21.74	21.78	21.76
10	1	0	16-QAM	21.79	21.71	21.82
10	1	25		21.74	21.78	21.76
10	1	49		21.74	21.73	21.68
10	25	0		20.73	20.68	20.76
10	25	12		20.75	20.74	20.81
10	25	25		20.80	20.73	20.80
10	50	0		20.69	20.68	20.76
5	1	0	QPSK	22.74	22.77	22.84
5	1	12		22.71	22.77	22.83
5	1	24		22.80	22.72	22.68
5	12	0		21.79	21.79	21.83
5	12	7		21.77	21.77	21.86
5	12	13		21.85	21.82	21.74
5	25	0		21.79	21.76	21.83
5	1	0	16-QAM	21.73	21.76	21.83
5	1	12		21.82	21.80	21.81
5	1	24		21.77	21.74	21.69
5	12	0		20.81	20.79	20.82
5	12	7		20.76	20.81	20.85
5	12	13		20.79	20.81	20.74
5	25	0		20.73	20.75	20.74

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.71	22.77	22.81
3	1	8		22.72	22.75	22.79
3	1	14		22.76	22.79	22.76
3	8	0		21.79	21.81	21.82
3	8	4		21.78	21.82	21.82
3	8	7		21.76	21.79	21.77
3	15	0		21.77	21.86	21.80
3	1	0	16-QAM	21.74	21.78	21.82
3	1	8		21.74	21.75	21.74
3	1	14		21.75	21.73	21.72
3	8	0		20.71	20.69	20.77
3	8	4		20.71	20.68	20.73
3	8	7		20.68	20.71	20.73
3	15	0		20.77	20.81	20.77
1.4	1	0	QPSK	22.73	22.79	22.84
1.4	1	3		22.75	22.81	22.83
1.4	1	5		22.78	22.76	22.78
1.4	3	0		22.79	22.80	22.82
1.4	3	1		22.79	22.79	22.77
1.4	3	3		22.77	22.79	22.76
1.4	6	0		21.79	21.85	21.82
1.4	1	0	16-QAM	21.72	21.87	21.89
1.4	1	3		21.80	21.79	21.73
1.4	1	5		21.77	21.80	21.72
1.4	3	0		21.77	21.81	21.82
1.4	3	1		21.77	21.85	21.82
1.4	3	3		21.82	21.75	21.75
1.4	6	0		20.83	20.84	20.80

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.73	
10	1	25			22.62	
10	1	49			22.33	
10	25	0			21.71	
10	25	12			21.63	
10	25	25			21.57	
10	50	0			21.66	
10	1	0	16-QAM		21.35	
10	1	25			21.68	
10	1	49			21.64	
10	25	0			20.53	
10	25	12			20.65	
10	25	25			20.67	
10	50	0			20.63	
5	1	0	QPSK	22.56	22.72	22.66
5	1	12		22.53	22.69	22.58
5	1	24		22.51	22.63	22.54
5	12	0		21.55	21.76	21.74
5	12	7		21.60	21.71	21.67
5	12	13		21.78	21.84	21.64
5	25	0		21.64	21.67	21.58
5	1	0	16-QAM	21.74	21.76	21.62
5	1	12		21.61	21.71	21.56
5	1	24		21.48	21.70	21.53
5	12	0		20.59	20.69	20.78
5	12	7		20.65	20.76	20.66
5	12	13		20.78	20.79	20.65
5	25	0		20.64	20.65	20.63

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.73	**22.81**	22.76
10	1	25		22.65	22.63	22.66
10	1	49		22.54	22.49	22.57
10	25	0		21.80	21.84	21.81
10	25	12		21.79	21.76	21.80
10	25	25		21.74	21.76	21.77
10	50	0		21.65	21.74	21.71
10	1	0	16-QAM	21.64	21.82	21.70
10	1	25		21.78	21.78	21.89
10	1	49		21.64	21.63	21.57
10	25	0		20.73	20.69	20.75
10	25	12		20.72	20.74	20.82
10	25	25		20.82	20.78	20.77
10	50	0		20.61	20.63	20.75
5	1	0	QPSK	22.54	22.73	22.80
5	1	12		22.66	22.68	22.76
5	1	24		22.73	22.68	22.49
5	12	0		21.65	21.80	21.75
5	12	7		21.72	21.84	21.86
5	12	13		21.83	21.80	21.78
5	25	0		21.80	21.83	21.77
5	1	0	16-QAM	21.57	21.77	21.83
5	1	12		21.67	21.72	21.79
5	1	24		21.76	21.76	21.49
5	12	0		20.64	20.82	20.84
5	12	7		20.74	20.85	20.88
5	12	13		20.82	20.84	20.80
5	25	0		20.79	20.77	20.77

Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.23	0.2104	23.87	0.2438
Middle		1	0	23.20	0.2089	23.84	0.2421
Highest		1	0	23.09	0.2037	23.73	0.2360
Lowest	16QAM	1	0	22.35	0.1718	22.99	0.1991
Middle		1	0	22.20	0.1660	22.84	0.1923
Highest		1	0	22.05	0.1603	22.69	0.1858
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.33	0.2153	23.97	0.2495
Middle		1	0	23.22	0.2099	23.86	0.2432
Highest		1	0	23.12	0.2051	23.76	0.2377
Lowest	16QAM	1	0	22.27	0.1687	22.91	0.1954
Middle		1	0	22.20	0.1660	22.84	0.1923
Highest		1	0	22.08	0.1614	22.72	0.1871
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.00	0.1995	23.64	0.2312
Middle		1	0	22.87	0.1936	23.51	0.2244
Highest		1	0	22.94	0.1968	23.58	0.2280
Lowest	16QAM	1	0	21.99	0.1581	22.63	0.1832
Middle		1	0	21.91	0.1552	22.55	0.1799
Highest		1	0	21.95	0.1567	22.59	0.1816
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.99	0.1991	23.63	0.2307
Middle		1	0	22.90	0.1950	23.54	0.2259
Highest		1	0	22.95	0.1972	23.59	0.2286
Lowest	16QAM	1	0	21.99	0.1581	22.63	0.1832
Middle		1	0	21.96	0.1570	22.60	0.1820
Highest		1	0	21.97	0.1574	22.61	0.1824
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.00	0.1995	23.64	0.2312
Middle		1	0	22.85	0.1928	23.49	0.2234
Highest		1	0	22.94	0.1968	23.58	0.2280
Lowest	16QAM	1	0	22.00	0.1585	22.64	0.1837
Middle		1	0	21.95	0.1567	22.59	0.1816
Highest		1	0	21.98	0.1578	22.62	0.1828
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.95	0.1972	23.59	0.2286
Middle		1	0	22.99	0.1991	23.63	0.2307
Highest		1	0	22.96	0.1977	23.60	0.2291
Lowest	16QAM	1	0	21.96	0.1570	22.60	0.1820
Middle		1	0	22.02	0.1592	22.66	0.1845
Highest		1	0	21.86	0.1535	22.50	0.1778
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 1.4MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.40	0.2188	24.04	0.2535
Middle		1	0	23.30	0.2138	23.94	0.2477
Highest		1	0	23.33	0.2153	23.97	0.2495
Lowest	16QAM	1	3	22.40	0.1738	23.04	0.2014
Middle		1	3	22.37	0.1726	23.01	0.2000
Highest		1	3	22.28	0.1690	22.92	0.1959
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 3MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.37	0.2173	24.01	0.2518
Middle		1	0	23.33	0.2153	23.97	0.2495
Highest		1	0	23.34	0.2158	23.98	0.2500
Lowest	16QAM	1	0	22.40	0.1738	23.04	0.2014
Middle		1	0	22.30	0.1698	22.94	0.1968
Highest		1	0	22.35	0.1718	22.99	0.1991
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 5MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.09	0.2037	23.73	0.2360
Middle		1	0	22.97	0.1982	23.61	0.2296
Highest		1	0	23.00	0.1995	23.64	0.2312
Lowest	16QAM	1	0	22.04	0.1600	22.68	0.1854
Middle		1	0	21.96	0.1570	22.60	0.1820
Highest		1	0	22.01	0.1589	22.65	0.1841
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 10MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.06	0.2023	23.70	0.2344
Middle		1	0	22.98	0.1986	23.62	0.2301
Highest		1	0	22.92	0.1957	23.56	0.2268
Lowest	16QAM	1	0	22.06	0.1607	22.70	0.1862
Middle		1	0	21.98	0.1578	22.62	0.1828
Highest		1	0	21.92	0.1556	22.56	0.1803
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 15MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.14	0.2061	23.78	0.2388
Middle		1	0	22.93	0.1963	23.57	0.2275
Highest		1	0	22.98	0.1986	23.62	0.2301
Lowest	16QAM	1	0	22.05	0.1603	22.69	0.1858
Middle		1	0	21.95	0.1567	22.59	0.1816
Highest		1	0	22.00	0.1585	22.64	0.1837
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 20MHz (Average) (GT - LC = 0.64 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.05	0.2018	23.69	0.2339
Middle		1	0	22.97	0.1982	23.61	0.2296
Highest		1	0	22.92	0.1959	23.56	0.2270
Lowest	16QAM	1	49	22.03	0.1596	22.67	0.1849
Middle		1	49	21.95	0.1567	22.59	0.1816
Highest		1	49	21.87	0.1538	22.51	0.1782
Limit	EIRP < 2W			Result		PASS	

LTE Band 4 / 1.4MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.22	0.2099	24.91	0.3097
Middle		1	0	23.17	0.2075	24.86	0.3062
Highest		1	0	23.33	0.2153	25.02	0.3177
Lowest	16QAM	3	1	22.28	0.1690	23.97	0.2495
Middle		3	1	22.31	0.1702	24.00	0.2512
Highest		3	1	22.38	0.1730	24.07	0.2553
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.35	0.2163	25.04	0.3192
Middle		1	0	23.25	0.2113	24.94	0.3119
Highest		1	0	23.36	0.2168	25.05	0.3199
Lowest	16QAM	1	0	22.23	0.1671	23.92	0.2466
Middle		1	0	22.23	0.1671	23.92	0.2466
Highest		1	0	22.29	0.1694	23.98	0.2500
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.02	0.2004	24.71	0.2958
Middle		1	0	22.97	0.1982	24.66	0.2924
Highest		1	0	23.12	0.2051	24.81	0.3027
Lowest	16QAM	1	0	22.01	0.1589	23.70	0.2344
Middle		1	0	22.04	0.1600	23.73	0.2360
Highest		1	0	22.11	0.1626	23.80	0.2399
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 10MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.00	0.1995	24.69	0.2944
Middle		1	0	23.06	0.2023	24.75	0.2985
Highest		1	0	23.13	0.2056	24.82	0.3034
Lowest	16QAM	1	0	22.05	0.1603	23.74	0.2366
Middle		1	0	22.12	0.1629	23.81	0.2404
Highest		1	0	22.14	0.1637	23.83	0.2415
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.00	0.1995	24.69	0.2944
Middle		1	0	23.02	0.2004	24.71	0.2958
Highest		1	0	23.09	0.2037	24.78	0.3006
Lowest	16QAM	1	0	22.03	0.1596	23.72	0.2355
Middle		1	0	22.07	0.1611	23.76	0.2377
Highest		1	0	22.12	0.1629	23.81	0.2404
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 1.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.98	0.1986	24.67	0.2931
Middle		1	0	23.12	0.2051	24.81	0.3027
Highest		1	0	23.08	0.2032	24.77	0.2999
Lowest	16QAM	1	49	21.91	0.1552	23.60	0.2291
Middle		1	49	22.05	0.1603	23.74	0.2366
Highest		1	49	22.11	0.1626	23.80	0.2399
Limit	EIRP < 1W			Result		PASS	

LTE Band 5 / 1.4MHz (Average) (GT - LC = 0.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.73	0.1875	21.28	0.1343
Middle		1	0	22.79	0.1901	21.34	0.1361
Highest		1	0	22.84	0.1923	21.39	0.1377
Lowest	16QAM	1	0	21.72	0.1486	20.27	0.1064
Middle		1	0	21.87	0.1538	20.42	0.1102
Highest		1	0	21.89	0.1545	20.44	0.1107
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = 0.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.71	0.1866	21.26	0.1337
Middle		1	0	22.77	0.1892	21.32	0.1355
Highest		1	0	22.81	0.1910	21.36	0.1368
Lowest	16QAM	1	0	21.74	0.1493	20.29	0.1069
Middle		1	0	21.78	0.1507	20.33	0.1079
Highest		1	0	21.82	0.1521	20.37	0.1089
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = 0.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.74	0.1879	21.29	0.1346
Middle		1	0	22.77	0.1892	21.32	0.1355
Highest		1	0	22.84	0.1923	21.39	0.1377
Lowest	16QAM	1	0	21.73	0.1489	20.28	0.1067
Middle		1	0	21.76	0.1500	20.31	0.1074
Highest		1	0	21.83	0.1524	20.38	0.1091
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = 0.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.82	0.1914	21.37	0.1371
Middle		1	0	22.86	0.1932	21.41	0.1384
Highest		1	0	22.82	0.1914	21.37	0.1371
Lowest	16QAM	1	0	21.79	0.1510	20.34	0.1081
Middle		1	0	21.71	0.1483	20.26	0.1062
Highest		1	0	21.82	0.1521	20.37	0.1089
Limit	ERP < 7W			Result		PASS	

LTE Band 13 / 5MHz (Average) (GT - LC = 1.47 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.56	0.1803	21.88	0.1542
Middle		1	0	22.72	0.1871	22.04	0.1600
Highest		1	0	22.66	0.1845	21.98	0.1578
Lowest	16QAM	1	0	21.74	0.1493	21.06	0.1276
Middle		1	0	21.76	0.1500	21.08	0.1282
Highest		1	0	21.62	0.1452	20.94	0.1242
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = 1.47 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.73	0.1875	22.05	0.1603
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	21.68	0.1472	21.00	0.1259
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 5MHz (Average) (GT - LC = -1.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.54	0.1795	18.88	0.0773
Middle		1	0	22.73	0.1875	19.07	0.0807
Highest		1	0	22.80	0.1905	19.14	0.0820
Lowest	16QAM	1	0	21.57	0.1435	17.91	0.0618
Middle		1	0	21.77	0.1503	18.11	0.0647
Highest		1	0	21.83	0.1524	18.17	0.0656
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -1.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.73	0.1875	19.07	0.0807
Middle		1	0	22.81	0.1910	19.15	0.0822
Highest		1	0	22.76	0.1888	19.10	0.0813
Lowest	16QAM	1	25	21.78	0.1507	18.12	0.0649
Middle		1	25	21.78	0.1507	18.12	0.0649
Highest		1	25	21.89	0.1545	18.23	0.0665
Limit	ERP < 3W			Result		PASS	

Radiated Spurious Emission

LTE Band 2

LTE Band 2 / 1.4MHz / QPSK									
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	3709.5	-43.98	-13	-30.98	-60.83	-50.56	1.67	8.25	H
	5557.5	-40.12	-13	-27.12	-62.75	-47.18	2.66	9.72	H
	7405.5	-50.53	-13	-37.53	-77.64	-59.68	2.46	11.61	H
									H
									H
									H
									H
	3709.5	-37.42	-13	-24.42	-54.43	-44	1.67	8.25	V
	5557.5	-31.64	-13	-18.64	-54.1	-38.7	2.66	9.72	V
	7405.5	-49.39	-13	-36.39	-76.55	-58.54	2.46	11.61	V
									V
									V
									V
									V
Middle	3775.5	-45.06	-13	-32.06	-62.16	-51.7	1.69	8.33	H
	5640	-38.18	-13	-25.18	-60.96	-45.23	2.71	9.76	H
	7521	-50.00	-13	-37.00	-77.33	-59.39	2.42	11.81	H
									H
									H
									H
									H
	3775.5	-36.24	-13	-23.24	-53.45	-42.88	1.69	8.33	V
	5640	-29.85	-13	-16.85	-52.47	-36.9	2.71	9.76	V
	7521	-48.46	-13	-35.46	-75.9	-57.85	2.42	11.81	V
									V
									V
									V
									V

Highest	3825	-46.22	-13	-33.22	-63.44	-52.9	1.71	8.39	H
	5722.5	-36.17	-13	-23.17	-59.09	-43.21	2.75	9.79	H
	7636.5	-49.18	-13	-36.18	-76.62	-58.68	2.39	11.88	H
									H
									H
									H
									H
	3825	-38.36	-13	-25.36	-55.67	-45.04	1.71	8.39	V
	5722.5	-27.92	-13	-14.92	-50.7	-34.96	2.75	9.79	V
	7636.5	-48.49	-13	-35.49	-76.01	-57.99	2.39	11.88	V
									V
									V
									V
									V

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

LTE Band 2 / 3MHz / QPSK									
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	3709.5	-43.79	-13	-30.79	-60.64	-50.37	1.67	8.25	H
	5557.5	-39.82	-13	-26.82	-62.45	-46.88	2.66	9.72	H
	7405.5	-50.74	-13	-37.74	-77.85	-59.89	2.46	11.61	H
									H
									H
									H
									H
	3709.5	-37.63	-13	-24.63	-54.64	-44.21	1.67	8.25	V
	5557.5	-30.35	-13	-17.35	-52.81	-37.41	2.66	9.72	V
	7405.5	-48.86	-13	-35.86	-76.02	-58.01	2.46	11.61	V
									V
									V
									V
									V
Middle	3759	-45.29	-13	-32.29	-62.3	-51.92	1.69	8.31	H
	5640	-37.79	-13	-24.79	-60.6	-44.84	2.71	9.76	H
	7521	-49.63	-13	-36.63	-76.96	-59.02	2.42	11.81	H
									H
									H
									H
									H
	3759	-36.17	-13	-23.17	-53.31	-42.8	1.69	8.31	V
	5640	-29.63	-13	-16.63	-52.25	-36.68	2.71	9.76	V
	7521	-48.44	-13	-35.44	-75.88	-57.83	2.42	11.81	V
									V
									V
									V
									V

Highest	3816	-44.68	-13	-31.68	-61.89	-51.36	1.70	8.38	H
	5724	-36.55	-13	-23.55	-59.47	-43.59	2.75	9.79	H
	7632	-48.80	-13	-35.80	-76.24	-58.29	2.39	11.88	H
									H
									H
									H
									H
	3816	-36.79	-13	-23.79	-54.09	-43.47	1.70	8.38	V
	5724	-28.41	-13	-15.41	-51.19	-35.45	2.75	9.79	V
	7632	-47.56	-13	-34.56	-75.08	-57.05	2.39	11.88	V
									V
									V
									V
									V

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

LTE Band 2 / 5MHz / QPSK									
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	3702	-43.74	-13	-30.74	-60.59	-50.31	1.67	8.24	H
	5550	-39.63	-13	-26.63	-62.34	-46.7	2.65	9.72	H
	7404	-50.67	-13	-37.67	-77.78	-59.82	2.46	11.61	H
									H
									H
									H
									H
	3702	-37.99	-13	-24.99	-55	-44.56	1.67	8.24	V
	5550	-31.51	-13	-18.51	-53.98	-38.58	2.65	9.72	V
	7404	-49.65	-13	-36.65	-76.81	-58.8	2.46	11.61	V
									V
									V
									V
									V
Middle	3756	-46.05	-13	-33.05	-63.06	-52.67	1.68	8.31	H
	5634	-40.06	-13	-27.06	-62.84	-47.11	2.70	9.75	H
	7512	-48.83	-13	-35.83	-76.15	-58.21	2.43	11.81	H
									H
									H
									H
									H
	3756	-37.18	-13	-24.18	-54.32	-43.8	1.68	8.31	V
	5634	-31.18	-13	-18.18	-53.8	-38.23	2.70	9.75	V
	7512	-47.29	-13	-34.29	-74.73	-56.67	2.43	11.81	V
									V
									V
									V
									V

Highest	3808.5	-43.96	-13	-30.96	-61.12	-50.63	1.70	8.37	H
	5722.5	-37.13	-13	-24.13	-60.05	-44.17	2.75	9.79	H
	7620	-49.47	-13	-36.47	-76.88	-58.95	2.39	11.87	H
									H
									H
									H
									H
	3808.5	-36.13	-13	-23.13	-53.39	-42.8	1.70	8.37	V
	5722.5	-30.23	-13	-17.23	-53.01	-37.27	2.75	9.79	V
	7620	-48.25	-13	-35.25	-75.75	-57.73	2.39	11.87	V
									V
									V
									V
									V

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

LTE Band 2 / 10MHz / QPSK									
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	3702	-42.54	-13	-29.54	-59.49	-49.11	1.67	8.24	H
	5550	-39.17	-13	-26.17	-61.96	-46.24	2.65	9.72	H
	7404	-49.18	-13	-36.18	-76.24	-58.33	2.46	11.61	H
	9252	-44.01	-13	-31.01	-73.99	-54.07	2.54	12.60	H
	11100	-44.62	-13	-31.62	-76.9	-54.39	2.69	12.46	H
									H
									H
	3702	-36.11	-13	-23.11	-53.2	-42.68	1.67	8.24	V
	5550	-29.35	-13	-16.35	-51.83	-36.42	2.65	9.72	V
	7404	-47.31	-13	-34.31	-74.7	-56.46	2.46	11.61	V
	9252	-41.35	-13	-28.35	-70.87	-51.41	2.54	12.60	V
	11100	-40.57	-13	-27.57	-72.83	-50.34	2.69	12.46	V
									V
									V
Middle	3750	-44.46	-13	-31.46	-61.69	-51.08	1.68	8.30	H
	5628	-39.32	-13	-26.32	-62.27	-46.37	2.70	9.75	H
	7500	-48.05	-13	-35.05	-75.47	-57.42	2.43	11.80	H
	9378	-43.17	-13	-30.17	-73.7	-53.16	2.56	12.55	H
									H
									H
									H
	3750	-35.87	-13	-22.87	-53.21	-42.49	1.68	8.30	V
	5628	-30.95	-13	-17.95	-54.32	-38	2.70	9.75	V
	7500	-45.53	-13	-32.53	-72.85	-54.9	2.43	11.80	V
	9378	-37.62	-13	-24.62	-67.29	-47.61	2.56	12.55	V
									V
									V
									V

Highest	3804	-43.97	-13	-30.97	-61.2	-50.64	1.70	8.36	H
	5700	-41.95	-13	-28.95	-64.83	-48.99	2.74	9.78	H
	7602	-47.56	-13	-34.56	-75	-57.02	2.40	11.86	H
	9504	-44.60	-13	-31.60	-75.08	-54.51	2.59	12.50	H
									H
									H
									H
	3804	-36.16	-13	-23.16	-53.41	-42.83	1.70	8.36	V
	5700	-32.11	-13	-19.11	-54.91	-39.15	2.74	9.78	V
	7602	-45.57	-13	-32.57	-73.13	-55.03	2.40	11.86	V
	9504	-41.76	-13	-28.76	-71.53	-51.67	2.59	12.50	V
									V
									V
									V

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

LTE Band 2 / 15MHz / QPSK									
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	3702	-45.04	-13	-32.04	-62	-51.61	1.67	8.24	H
	5556	-40.18	-13	-27.18	-62.94	-47.25	2.66	9.72	H
	7404	-49.24	-13	-36.24	-76.36	-58.39	2.46	11.61	H
	9252	-47.00	-13	-34.00	-77	-57.06	2.54	12.60	H
	11110	-44.24	-13	-31.24	-76.34	-54.01	2.69	12.46	H
									H
									H
	3702	-37.98	-13	-24.98	-55.04	-44.55	1.67	8.24	V
	5550	-30.01	-13	-17.01	-52.55	-37.08	2.65	9.72	V
	7404	-47.89	-13	-34.89	-75.01	-57.04	2.46	11.61	V
	9252	-45.90	-13	-32.90	-75.18	-55.96	2.54	12.60	V
	11110	-39.81	-13	-26.81	-72.32	-49.58	2.69	12.46	V
									V
									V
Middle	3744	-43.51	-13	-30.51	-60.38	-50.12	1.68	8.29	H
	5622	-30.77	-13	-17.77	-53.33	-37.82	2.70	9.75	H
	7494	-42.03	-13	-29.03	-69.45	-51.39	2.43	11.79	H
	9367	-40.02	-13	-27.02	-70.16	-50.01	2.56	12.55	H
									H
									H
									H
	3744	-33.00	-13	-20.00	-50.27	-39.61	1.68	8.29	V
	5622	-30.77	-13	-17.77	-53.33	-37.82	2.70	9.75	V
	7494	-40.87	-13	-27.87	-68.26	-50.23	2.43	11.79	V
	9396	-37.95	-13	-24.95	-67.42	-47.92	2.57	12.54	V
									V
									V
									V

Highest	3792	-47.51	-13	-34.51	-64.68	-54.16	1.70	8.35	H
	5688	-32.60	-13	-19.60	-55.58	-39.64	2.73	9.78	H
	7578	-43.61	-13	-30.61	-71.01	-53.05	2.40	11.85	H
									H
									H
									H
									H
	3792	-41.38	-13	-28.38	-58.65	-48.03	1.70	8.35	V
	5688	-22.11	-13	-9.11	-44.96	-29.15	2.73	9.78	V
	7578	-44.15	-13	-31.15	-71.6	-53.59	2.40	11.85	V
									V
									V
									V
									V

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

LTE Band 2 / 20MHz / QPSK									
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	3702	-37.57	-13	-24.57	-54.49	-44.14	1.67	8.24	H
	5556	-30.35	-13	-17.35	-52.99	-37.42	2.66	9.72	H
	7400	-42.92	-13	-29.92	-70.04	-52.06	2.46	11.60	H
									H
									H
									H
									H
	3702	-33.00	-13	-20.00	-50.13	-39.57	1.67	8.24	V
	5556	-21.87	-13	-8.87	-44.21	-28.94	2.66	9.72	V
	7400	-43.94	-13	-30.94	-71.09	-53.08	2.46	11.60	V
									V
									V
									V
									V
Middle	3744	-42.63	-13	-29.63	-59.7	-49.24	1.68	8.29	H
	5616	-35.10	-13	-22.10	-57.93	-42.15	2.69	9.75	H
	7480	-42.67	-13	-29.67	-70.01	-51.99	2.44	11.76	H
									H
									H
									H
									H
	3744	-34.23	-13	-21.23	-51.33	-40.84	1.68	8.29	V
	5616	-27.30	-13	-14.30	-50.11	-34.35	2.69	9.75	V
	7480	-42.07	-13	-29.07	-69.39	-51.39	2.44	11.76	V
									V
									V
									V
									V

Highest	3780	-47.73	-13	-34.73	-65.06	-54.37	1.69	8.34	H
	5676	-31.02	-13	-18.02	-53.91	-38.06	2.73	9.77	H
	7560	-43.38	-13	-30.38	-70.8	-52.81	2.41	11.84	H
									H
									H
									H
									H
	3780	-40.51	-13	-27.51	-57.75	-47.15	1.69	8.34	V
	5676	-21.14	-13	-8.14	-43.81	-28.18	2.73	9.77	V
	7560	-43.11	-13	-30.11	-70.61	-52.54	2.41	11.84	V
									V
									V
									V
									V

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

LTE Band 25

LTE Band 25 / 1.4MHz / QPSK									
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)
Highest	3827.34	-45.57	-13	-32.57	-62.79	-52.26	1.71	8.39	H
	5741.01	-31.53	-13	-18.53	-54.47	-38.56	2.76	9.80	H
	11482.02	-39.93	-13	-26.93	-72.41	-49.55	2.68	12.31	H
									H
									H
									H
									H
	3827.34	-43.56	-13	-30.56	-60.87	-50.25	1.71	8.39	V
	5741.01	-21.49	-13	-8.49	-44.3	-28.52	2.76	9.80	V
	11482.02	-31.13	-13	-18.13	-64.55	-40.75	2.68	12.31	V
									V
									V
									V
									V

LTE Band 25 / 3MHz / QPSK									
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)
Highest	3824.3	-46.78	-13	-33.78	-64	-53.46	1.71	8.39	H
	5736.45	-29.20	-13	-16.20	-52.14	-36.23	2.76	9.79	H
	7648.6	-44.49	-13	-31.49	-71.95	-54	2.38	11.89	H
	11472.9	-40.04	-13	-27.04	-72.5	-49.67	2.68	12.31	H
									H
									H
									H
	3824.3	-42.10	-13	-29.10	-59.41	-48.78	1.71	8.39	V
	5736.45	-20.59	-13	-7.59	-43.4	-27.62	2.76	9.79	V
	7648.6	-40.52	-13	-27.52	-68.05	-50.03	2.38	11.89	V
	11472.9	-35.15	-13	-22.15	-68.52	-44.78	2.68	12.31	V
									V
									V
									V

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

LTE Band 25 / 5MHz / QPSK									
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)
Highest	3820.5	-44.07	-13	-31.07	-61.29	-50.75	1.70	8.38	H
	5730.75	-31.18	-13	-18.18	-54.09	-38.21	2.76	9.79	H
	7641	-40.78	-13	-27.78	-68.24	-50.28	2.38	11.88	H
									H
									H
									H
									H
	3820.5	-38.43	-13	-25.43	-55.74	-45.11	1.70	8.38	V
	5730.75	-19.68	-13	-6.68	-42.45	-26.71	2.76	9.79	V
	7641	-42.96	-13	-29.96	-70.49	-52.46	2.38	11.88	V
									V
									V
									V
									V

LTE Band 25 / 10MHz / QPSK									
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)
Highest	3808.5	-45.24	-13	-32.24	-62.4	-51.91	1.70	8.37	H
	5722.5	-36.51	-13	-23.51	-59.43	-43.55	2.75	9.79	H
	7620	-48.49	-13	-35.49	-75.9	-57.97	2.39	11.87	H
									H
									H
									H
									H
	3808.5	-38.28	-13	-25.28	-55.54	-44.95	1.70	8.37	V
	5722.5	-28.29	-13	-15.29	-51.07	-35.33	2.75	9.79	V
	7620	-47.14	-13	-34.14	-74.64	-56.62	2.39	11.87	V
									V
									V
									V
									V

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

LTE Band 25 / 15MHz / QPSK									
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)
Highest	3808.5	-44.39	-13	-31.39	-61.55	-51.06	1.70	8.37	H
	5706	-41.27	-13	-28.27	-64.15	-48.31	2.74	9.78	H
	7603.5	-48.56	-13	-35.56	-75.94	-58.03	2.40	11.86	H
									H
									H
									H
									H
	3808.5	-37.83	-13	-24.83	-55.09	-44.5	1.70	8.37	V
	5706	-33.79	-13	-20.79	-56.54	-40.83	2.74	9.78	V
	7603.5	-46.75	-13	-33.75	-74.24	-56.22	2.40	11.86	V
									V
									V
									V
									V

LTE Band 25 / 20MHz / QPSK									
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)
Highest	3792	-50.49	-13	-37.49	-67.6	-57.14	1.70	8.35	H
	5689.5	-38.33	-13	-25.33	-61.19	-45.37	2.73	9.78	H
	7587	-50.32	-13	-37.32	-77.7	-59.77	2.40	11.85	H
									H
									H
									H
									H
	3792	-43.61	-13	-30.61	-60.82	-50.26	1.70	8.35	V
	5689.5	-30.39	-13	-17.39	-53.11	-37.43	2.73	9.78	V
	7587	-49.38	-13	-36.38	-76.86	-58.83	2.40	11.85	V
									V
									V
									V
									V

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

LTE Band 4

LTE Band 4 / 1.4MHz / QPSK									
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	3421.4	-46.34	-13	-33.34	-62.47	-52.41	1.58	7.65	H
	5132.1	-39.93	-13	-26.93	-61.38	-47.22	2.41	9.70	H
	6842.8	-45.32	-13	-32.32	-71.03	-53.29	2.64	10.61	H
									H
									H
									H
									H
	3421.4	-46.05	-13	-33.05	-62.3	-52.12	1.58	7.65	V
	5132.1	-31.12	-13	-18.12	-52.69	-38.41	2.41	9.70	V
	6842.8	-44.47	-13	-31.47	-69.95	-52.44	2.64	10.61	V
									V
									V
									V
									V
Middle	3463.74	-52.85	-13	-39.85	-69.04	-59.09	1.59	7.84	H
	5195.61	-33.02	-13	-20.02	-54.67	-40.27	2.45	9.70	H
	6927.48	-43.44	-13	-30.44	-69.44	-51.54	2.61	10.71	H
									H
									H
									H
									H
	3463.74	-52.20	-13	-39.20	-68.59	-58.44	1.59	7.84	V
	5195.61	-24.67	-13	-11.67	-46.38	-31.92	2.45	9.70	V
	6927.48	-42.06	-13	-29.06	-67.79	-50.16	2.61	10.71	V
									V
									V
									V
									V

Highest	3511.5	-44.54	-13	-31.54	-61.23	-50.95	1.61	8.01	H
	5260.5	-39.02	-13	-26.02	-60.87	-46.23	2.49	9.70	H
	7026	-48.06	-13	-35.06	-74.31	-56.33	2.58	10.85	H
									H
									H
									H
									H
	3511.5	-42.50	-13	-29.50	-59.02	-48.91	1.61	8.01	V
	5260.5	-30.58	-13	-17.58	-52.44	-37.79	2.49	9.70	V
	7026	-46.44	-13	-33.44	-72.4	-54.71	2.58	10.85	V
									V
									V
									V
									V

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

LTE Band 4 / 3MHz / QPSK									
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	3429	-51.00	-13	-38.00	-67.15	-57.11	1.58	7.69	H
	5128.5	-42.81	-13	-29.81	-64.25	-50.1	2.41	9.70	H
	6844.5	-50.56	-13	-37.56	-76.27	-58.53	2.64	10.61	H
									H
									H
									H
									H
	3429	-49.83	-13	-36.83	-66.12	-55.94	1.58	7.69	V
	5128.5	-35.44	-13	-22.44	-57.01	-42.73	2.41	9.70	V
	6844.5	-48.64	-13	-35.64	-74.11	-56.61	2.64	10.61	V
									V
									V
									V
									V
Middle	3462	-56.15	-13	-43.15	-72.34	-62.39	1.59	7.83	H
	5194.5	-36.95	-13	-23.95	-58.6	-44.2	2.45	9.70	H
	6927	-50.25	-13	-37.25	-76.25	-58.35	2.61	10.71	H
									H
									H
									H
									H
	3462	-54.70	-13	-41.70	-71.09	-60.94	1.59	7.83	V
	5194.5	-28.40	-13	-15.40	-50.11	-35.65	2.45	9.70	V
	6927	-47.88	-13	-34.88	-73.61	-55.98	2.61	10.71	V
									V
									V
									V
									V

Highest	3511.5	-46.20	-13	-33.20	-62.48	-52.61	1.61	8.01	H
	5260.5	-38.71	-13	-25.71	-60.56	-45.92	2.49	9.70	H
	7009.5	-47.82	-13	-34.82	-74.07	-56.05	2.59	10.82	H
									H
									H
									H
									H
	3511.5	-44.39	-13	-31.39	-60.91	-50.8	1.61	8.01	V
	5260.5	-30.68	-13	-17.68	-52.54	-37.89	2.49	9.70	V
	7009.5	-45.71	-13	-32.71	-71.67	-53.94	2.59	10.82	V
									V
									V
									V
									V

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

LTE Band 4 / 5MHz / QPSK									
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	3429	-50.37	-13	-37.37	-66.52	-56.48	1.58	7.69	H
	5128.5	-44.00	-13	-31.00	-65.45	-51.29	2.41	9.70	H
	6844	-50.20	-13	-37.20	-75.91	-58.17	2.64	10.61	H
									H
									H
									H
									H
	3429	-48.82	-13	-35.82	-65.11	-54.93	1.58	7.69	V
	5128.5	-36.62	-13	-23.62	-58.2	-43.91	2.41	9.70	V
	6844	-48.95	-13	-35.95	-74.43	-56.92	2.64	10.61	V
									V
									V
									V
									V
Middle	3462	-54.91	-13	-41.91	-71.1	-61.15	1.59	7.83	H
	5194.5	-37.97	-13	-24.97	-59.62	-45.22	2.45	9.70	H
	6927	-49.76	-13	-36.76	-75.76	-57.86	2.61	10.71	H
									H
									H
									H
									H
	3462	-53.11	-13	-40.11	-69.5	-59.35	1.59	7.83	V
	5194.5	-29.05	-13	-16.05	-50.76	-36.3	2.45	9.70	V
	6927	-48.06	-13	-35.06	-73.79	-56.16	2.61	10.71	V
									V
									V
									V
									V

Highest	3511.5	-46.55	-13	-33.55	-62.83	-52.96	1.61	8.01	H
	5260.5	-41.25	-13	-28.25	-63.1	-48.46	2.49	9.70	H
	7009.5	-47.98	-13	-34.98	-74.23	-56.21	2.59	10.82	H
									H
									H
									H
									H
	3511.5	-45.32	-13	-32.32	-61.84	-51.73	1.61	8.01	V
	5260.5	-33.39	-13	-20.39	-55.25	-40.6	2.49	9.70	V
	7009.5	-45.38	-13	-32.38	-71.34	-53.61	2.59	10.82	V
									V
									V
									V
									V

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

LTE Band 4 / 10MHz / QPSK									
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	3429	-51.80	-13	-38.80	-67.95	-57.91	1.58	7.69	H
	5128.5	-50.35	-13	-37.35	-71.8	-57.64	2.41	9.70	H
	6844.5	-50.80	-13	-37.80	-76.51	-58.77	2.64	10.61	H
									H
									H
									H
									H
	3429	-51.15	-13	-38.15	-67.44	-57.26	1.58	7.69	V
	5128.5	-42.83	-13	-29.83	-64.28	-50.12	2.41	9.70	V
	6844.5	-49.24	-13	-36.24	-74.79	-57.21	2.64	10.61	V
									V
									V
									V
									V
Middle	3462	-53.90	-13	-40.90	-70.09	-60.14	1.59	7.83	H
	5194.5	-45.29	-13	-32.29	-66.94	-52.54	2.45	9.70	H
	6910.5	-50.27	-13	-37.27	-76.2	-58.34	2.62	10.69	H
									H
									H
									H
									H
	3462	-52.89	-13	-39.89	-69.28	-59.13	1.59	7.83	V
	5194.5	-39.33	-13	-26.33	-61.04	-46.58	2.45	9.70	V
	6910.5	-48.47	-13	-35.47	-74.14	-56.54	2.62	10.69	V
									V
									V
									V
									V

Highest	3495	-47.68	-13	-34.68	-63.91	-54.06	1.60	7.98	H
	5244	-48.69	-13	-35.69	-70.49	-55.91	2.48	9.70	H
	6993	-48.85	-13	-35.85	-75.06	-57.05	2.59	10.79	H
									H
									H
									H
									H
	3495	-46.74	-13	-33.74	-63.22	-53.12	1.60	7.98	V
	5244	-40.80	-13	-27.80	-62.63	-48.02	2.48	9.70	V
	6993	-46.94	-13	-33.94	-72.85	-55.14	2.59	10.79	V
									V
									V
									V
									V

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

LTE Band 4 / 15MHz / QPSK									
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	3429	-51.24	-13	-38.24	-67.39	-57.35	1.58	7.69	H
	5128.5	-50.14	-13	-37.14	-71.59	-57.43	2.41	9.70	H
	6844.5	-51.36	-13	-38.36	-77.07	-59.33	2.64	10.61	H
									H
									H
									H
									H
	3429	-50.45	-13	-37.45	-66.74	-56.56	1.58	7.69	V
	5128.5	-42.88	-13	-29.88	-64.45	-50.17	2.41	9.70	V
	6844.5	-49.74	-13	-36.74	-75.22	-57.71	2.64	10.61	V
									V
									V
									V
									V
Middle	3462	-52.72	-13	-39.72	-68.91	-58.96	1.59	7.83	H
	5178	-45.93	-13	-32.93	-67.53	-53.19	2.44	9.70	H
	6910.5	-50.67	-13	-37.67	-76.6	-58.74	2.62	10.69	H
									H
									H
									H
									H
	3462	-51.70	-13	-38.70	-68.09	-57.94	1.59	7.83	V
	5178	-39.48	-13	-26.48	-61.16	-46.74	2.44	9.70	V
	6910.5	-49.46	-13	-36.46	-75.13	-57.53	2.62	10.69	V
									V
									V
									V
									V

Highest	3478.5	-51.34	-13	-38.34	-67.54	-57.65	1.60	7.90	H
	5227.5	-46.17	-13	-33.17	-67.92	-53.4	2.47	9.70	H
	6976.5	-50.26	-13	-37.26	-76.42	-58.43	2.60	10.77	H
									H
									H
									H
									H
	3478.5	-50.31	-13	-37.31	-66.74	-56.62	1.60	7.90	V
	5227.5	-39.05	-13	-26.05	-60.84	-46.28	2.47	9.70	V
	6976.5	-47.92	-13	-34.92	-73.79	-56.09	2.60	10.77	V
									V
									V
									V
									V

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

LTE Band 4 / 20MHz / QPSK									
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	3429	-50.63	-13	-37.63	-66.78	-56.74	1.58	7.69	H
	5145	-49.44	-13	-36.44	-70.94	-56.72	2.42	9.70	H
	6844.5	-51.22	-13	-38.22	-76.93	-59.19	2.64	10.61	H
									H
									H
									H
									H
	3429	-50.47	-13	-37.47	-66.76	-56.58	1.58	7.69	V
	5145	-44.35	-13	-31.35	-64.95	-51.63	2.42	9.70	V
	6844.5	-49.16	-13	-36.16	-74.64	-57.13	2.64	10.61	V
									V
									V
									V
									V
Middle	3462	-51.31	-13	-38.31	-67.5	-57.55	1.59	7.83	H
	5178	-44.72	-13	-31.72	-66.32	-51.98	2.44	9.70	H
	6894	-50.44	-13	-37.44	-76.32	-58.49	2.62	10.67	H
									H
									H
									H
									H
	3462	-50.62	-13	-37.62	-67.01	-56.86	1.59	7.83	V
	5178	-39.05	-13	-26.05	-60.73	-46.31	2.44	9.70	V
	6894	-49.07	-13	-36.07	-74.7	-57.12	2.62	10.67	V
									V
									V
									V
									V

Highest	3478.5	-56.24	-13	-43.24	-72.44	-62.55	1.60	7.90	H
	5211	-43.48	-13	-30.48	-65.18	-50.72	2.46	9.70	H
	6943.5	-50.22	-13	-37.22	-76.27	-58.34	2.61	10.73	H
									H
									H
									H
									H
	3429	-54.73	-13	-41.73	-71.16	-60.84	1.58	7.69	V
	5145	-35.72	-13	-22.72	-57.47	-43	2.42	9.70	V
	6844.5	-48.52	-13	-35.52	-74.34	-56.49	2.64	10.61	V
									V
									V
									V
									V

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

LTE Band 5

LTE Band 5 / 1.4MHz / QPSK									
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	-47.23	-13	-34.23	-56.95	-48.99	0.98	4.89	H
	2472	-52.83	-13	-39.83	-66.52	-54.71	1.28	5.32	H
	3296	-52.43	-13	-39.43	-68.41	-55.84	1.54	7.10	H
	4120	-51.65	-13	-38.65	-69.74	-56.29	1.83	8.62	H
									H
									H
									H
	1648	-48.92	-13	-35.92	-58.58	-50.68	0.98	4.89	V
	2472	-49.97	-13	-36.97	-63.7	-51.85	1.28	5.32	V
	3296	-44.81	-13	-31.81	-60.73	-48.22	1.54	7.10	V
	4120	-40.96	-13	-27.96	-58.99	-45.6	1.83	8.62	V
									V
									V
									V
Middle	1672	-45.81	-13	-32.81	-55.66	-47.49	0.99	4.82	H
	2512	-48.41	-13	-35.41	-62.25	-50.38	1.29	5.41	H
	3344	-49.09	-13	-36.09	-65.13	-52.7	1.56	7.31	H
	4184	-44.76	-13	-31.76	-63	-49.38	1.87	8.64	H
									H
									H
									H
	1672	-47.70	-13	-34.70	-57.49	-49.38	0.99	4.82	V
	2512	-44.57	-13	-31.57	-58.43	-46.54	1.29	5.41	V
	3344	-39.85	-13	-26.85	-55.9	-43.46	1.56	7.31	V
	4184	-35.76	-13	-22.76	-53.91	-40.38	1.87	8.64	V
									V
									V
									V

Highest	1696	-47.06	-13	-34.06	-57	-48.66	1.00	4.75	H
	2544	-52.25	-13	-39.25	-66.23	-54.23	1.30	5.44	H
	3392	-46.98	-13	-33.98	-63.08	-50.78	1.57	7.52	H
	4240	-44.47	-13	-31.47	-62.88	-49.07	1.90	8.65	H
									H
									H
									H
	1696	-48.83	-13	-35.83	-58.71	-50.43	1.00	4.75	V
	2544	-45.28	-13	-32.28	-59.24	-47.26	1.30	5.44	V
	3392	-38.98	-13	-25.98	-55.18	-42.78	1.57	7.52	V
	4240	-35.26	-13	-22.26	-53.55	-39.86	1.90	8.65	V
									V
									V
									V

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

LTE Band 5 / 3MHz / QPSK									
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	-47.52	-13	-34.52	-57.24	-49.28	0.98	4.89	H
	2472	-55.23	-13	-42.23	-68.95	-57.11	1.28	5.32	H
	3296	-53.17	-13	-40.17	-69.15	-56.58	1.54	7.10	H
	4120	-51.48	-13	-38.48	-69.57	-56.12	1.83	8.62	H
									H
									H
									H
	1648	-49.05	-13	-36.05	-58.7	-50.81	0.98	4.89	V
	2472	-51.96	-13	-38.96	-65.69	-53.84	1.28	5.32	V
	3296	-45.70	-13	-32.70	-61.62	-49.11	1.54	7.10	V
	4120	-42.30	-13	-29.30	-60.33	-46.94	1.83	8.62	V
									V
									V
									V
Middle	1672	-44.74	-13	-31.74	-54.59	-46.42	0.99	4.82	H
	2504	-50.12	-13	-37.12	-63.9	-52.08	1.29	5.40	H
	3344	-50.95	-13	-37.95	-66.99	-54.56	1.56	7.31	H
	4176	-47.28	-13	-34.28	-65.52	-51.9	1.86	8.64	H
									H
									H
									H
	1672	-45.43	-13	-32.43	-55.22	-47.11	0.99	4.82	V
	2504	-48.28	-13	-35.28	-62.1	-50.24	1.29	5.40	V
	3344	-42.50	-13	-29.50	-58.54	-46.11	1.56	7.31	V
	4176	-38.12	-13	-25.12	-56.27	-42.74	1.86	8.64	V
									V
									V
									V

Highest	1696	-45.23	-13	-32.23	-55.17	-46.83	1.00	4.75	H
	2536	-52.98	-13	-39.98	-66.88	-54.96	1.30	5.43	H
	3384	-50.24	-13	-37.24	-66.31	-54.01	1.57	7.49	H
	4232	-46.19	-13	-33.19	-64.56	-50.79	1.89	8.65	H
									H
									H
									H
	1696	-48.56	-13	-35.56	-58.43	-50.16	1.00	4.75	V
	2536	-49.01	-13	-36.01	-62.92	-50.99	1.30	5.43	V
	3384	-41.49	-13	-28.49	-57.64	-45.26	1.57	7.49	V
	4232	-36.19	-13	-23.19	-54.44	-40.79	1.89	8.65	V
									V
									V
									V

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

LTE Band 5 / 5MHz / QPSK									
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	-47.87	-13	-34.87	-57.59	-49.63	0.98	4.89	H
	2472	-54.63	-13	-41.63	-68.32	-56.51	1.28	5.32	H
	3296	-52.35	-13	-39.35	-68.33	-55.76	1.54	7.10	H
	4120	-52.89	-13	-39.89	-70.98	-57.53	1.83	8.62	H
									H
									H
									H
	1648	-49.39	-13	-36.39	-59.05	-51.15	0.98	4.89	V
	2472	-53.57	-13	-40.57	-67.3	-55.45	1.28	5.32	V
	3296	-44.78	-13	-31.78	-60.7	-48.19	1.54	7.10	V
	4120	-42.40	-13	-29.40	-60.43	-47.04	1.83	8.62	V
									V
									V
									V
Middle	1672	-45.23	-13	-32.23	-55.08	-46.91	0.99	4.82	H
	2504	-50.46	-13	-37.46	-64.24	-52.42	1.29	5.40	H
	3336	-48.39	-13	-35.39	-64.41	-51.97	1.55	7.28	H
	4168	-48.89	-13	-35.89	-67.08	-53.52	1.86	8.63	H
									H
									H
									H
	1672	-44.82	-13	-31.82	-54.61	-46.5	0.99	4.82	V
	2504	-47.57	-13	-34.57	-61.39	-49.53	1.29	5.40	V
	3336	-50.02	-13	-37.02	-56.03	-53.6	1.55	7.28	V
	4168	-36.70	-13	-23.70	-54.81	-41.33	1.86	8.63	V
									V
									V
									V

Highest	1688	-40.27	-13	-27.27	-56.16	-41.9	1.00	4.77	H
	2536	-55.01	-13	-42.01	-68.91	-56.99	1.30	5.43	H
	3376	-52.06	-13	-39.06	-68.16	-55.8	1.57	7.45	H
	4224	-50.37	-13	-37.37	-68.74	-54.97	1.89	8.64	H
									H
									H
									H
	1688	-48.48	-13	-35.48	-58.31	-50.11	1.00	4.77	V
	2536	-52.35	-13	-39.35	-66.26	-54.33	1.30	5.43	V
	3376	-43.61	-13	-30.61	-59.77	-47.35	1.57	7.45	V
	4224	-40.68	-13	-27.68	-58.93	-45.28	1.89	8.64	V
									V
									V
									V

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

LTE Band 5 / 10MHz / QPSK									
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	-47.31	-13	-34.31	-57.03	-49.07	0.98	4.89	H
	3296	-53.32	-13	-40.32	-69.3	-56.73	1.54	7.10	H
	4120	-52.48	-13	-39.48	-70.57	-57.12	1.83	8.62	H
	4944	-50.19	-13	-37.19	-71.02	-55.32	2.30	9.59	H
									H
									H
									H
	1648	-49.63	-13	-36.63	-59.29	-51.39	0.98	4.89	V
	3296	-45.96	-13	-32.96	-61.88	-49.37	1.54	7.10	V
	4120	-43.62	-13	-30.62	-61.65	-48.26	1.83	8.62	V
	4944	-44.12	-13	-31.12	-65.13	-49.25	2.30	9.59	V
									V
									V
									V
Middle	1664	-43.85	-13	-30.85	-53.65	-45.56	0.98	4.84	H
	2496	-51.02	-13	-38.02	-64.8	-52.97	1.29	5.39	H
	3328	-50.87	-13	-37.87	-66.89	-54.41	1.55	7.24	H
	4160	-45.31	-13	-32.31	-63.5	-49.94	1.85	8.63	H
									H
									H
									H
	1664	-45.36	-13	-32.36	-55.1	-47.07	0.98	4.84	V
	2496	-48.67	-13	-35.67	-62.48	-50.62	1.29	5.39	V
	3328	-40.38	-13	-27.38	-56.39	-43.92	1.55	7.24	V
	4160	-36.38	-13	-23.38	-54.49	-41.01	1.85	8.63	V
									V
									V
									V

Highest	1680	-49.67	-13	-36.67	-59.56	-51.32	0.99	4.80	H
	2520	-51.93	-13	-38.93	-65.78	-53.9	1.30	5.42	H
	3360	-52.51	-13	-39.51	-68.57	-56.18	1.56	7.38	H
	4200	-50.40	-13	-37.40	-68.68	-55.01	1.88	8.64	H
									H
									H
									H
	1680	-52.40	-13	-39.40	-62.23	-54.05	0.99	4.80	V
	2520	-47.78	-13	-34.78	-61.65	-49.75	1.30	5.42	V
	3360	-41.73	-13	-28.73	-57.84	-45.4	1.56	7.38	V
	4200	-39.05	-13	-26.05	-57.23	-43.66	1.88	8.64	V
									V
									V
									V

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

LTE Band 13

LTE Band 13 / 5MHz / QPSK									
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	1560	-58.30	-42.15	-16.15	-67.68	-60.34	0.94	5.13	H
	2336	-55.30	-13	-42.30	-68.25	-56.82	1.24	4.91	H
	3120	-54.89	-13	-41.89	-70.81	-57.58	1.49	6.33	H
									H
									H
									H
									H
	1560	-58.17	-42.15	-16.02	-67.57	-60.21	0.94	5.13	V
	2336	-56.16	-13	-43.16	-69.19	-57.68	1.24	4.91	V
	3120	-54.37	-13	-41.37	-69.83	-57.06	1.49	6.33	V
									V
									V
									V
									V
Middle	1562	-58.57	-42.15	-16.42	-68.05	-60.61	0.94	5.13	H
	2344	-56.00	-13	-43.00	-69.15	-57.54	1.24	4.93	H
	3128	-54.90	-13	-41.90	-71.02	-57.63	1.49	6.36	H
									H
									H
									H
									H
	1562	-58.54	-42.15	-16.39	-67.81	-60.58	0.94	5.13	V
	2344	-56.58	-13	-43.58	-69.64	-58.12	1.24	4.93	V
	3128	-54.51	-13	-41.51	-70.00	-57.24	1.49	6.36	V
									V
									V
									V
									V

Highest	1568	-58.75	-42.15	-16.60	-68.15	-60.77	0.94	5.11	H
	2352	-56.02	-13	-43.02	-69.09	-57.58	1.24	4.96	H
	3136	-54.60	-13	-41.60	-70.59	-57.36	1.49	6.40	H
									H
									H
									H
									H
	1568	-58.43	-42.15	-16.28	-67.69	-60.45	0.94	5.11	V
	2352	-55.70	-13	-42.70	-68.97	-57.26	1.24	4.96	V
	3136	-54.48	-13	-41.48	-70.03	-57.24	1.49	6.40	V
									V
									V
									V
									V

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

LTE Band 13 / 10MHz / QPSK									
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	1562	-57.47	-42.15	-15.32	-66.9	-59.51	0.94	5.13	H
	2344	-55.60	-13	-42.60	-68.69	-57.14	1.24	4.93	H
	3128	-54.60	-13	-41.60	-70.47	-57.33	1.49	6.36	H
									H
									H
									H
									H
	1562	-58.14	-42.15	-15.99	-67.4	-60.18	0.94	5.13	V
	2344	-56.71	-13	-43.71	-69.82	-58.25	1.24	4.93	V
	3218	-54.94	-13	-41.94	-70.43	-58.03	1.52	6.76	V
									V
									V
									V
									V

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

LTE Band 17

LTE Band 17 / 5MHz / QPSK									
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	-59.32	-13	-46.32	-67.50	-61.03	0.87	4.73	H
	2112	-55.47	-13	-42.47	-67.32	-56.39	1.17	4.24	H
	2816	-54.56	-13	-41.56	-69.52	-56.67	1.39	5.65	H
									H
									H
									H
									H
	1408	-58.63	-13	-45.63	-66.84	-60.34	0.87	4.73	V
	2112	-52.14	-13	-39.14	-63.94	-53.06	1.17	4.24	V
	2816	-52.90	-13	-39.90	-67.53	-55.01	1.39	5.65	V
									V
									V
									V
									V
Middle	1416	-59.03	-13	-46.03	-67.24	-60.78	0.87	4.78	H
	2120	-54.87	-13	-41.87	-66.75	-55.81	1.17	4.26	H
	2832	-54.30	-13	-41.30	-69.30	-56.42	1.39	5.67	H
									H
									H
									H
									H
	1416	-57.93	-13	-44.93	-65.98	-59.68	0.87	4.78	V
	2120	-52.09	-13	-39.09	-63.98	-53.03	1.17	4.26	V
	2832	-54.52	-13	-41.52	-69.36	-56.64	1.39	5.67	V
									V
									V
									V
									V

Highest	1424	-57.77	-13	-44.77	-66.23	-59.57	0.88	4.83	H
	2136	-56.37	-13	-43.37	-68.38	-57.35	1.18	4.31	H
	2848	-54.33	-13	-41.33	-69.34	-56.46	1.40	5.68	H
									H
									H
									H
									H
	1424	-55.18	-13	-42.18	-63.46	-56.98	0.88	4.83	V
	2136	-56.08	-13	-43.08	-68.10	-57.06	1.18	4.31	V
	2848	-53.69	-13	-40.69	-68.38	-55.82	1.40	5.68	V
									V
									V
									V
									V

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

LTE Band 17 / 10MHz / QPSK									
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	-59.32	-13	-46.32	-67.51	-61.03	0.87	4.73	H
	2112	-54.66	-13	-41.66	-66.57	-55.58	1.17	4.24	H
	2816	-54.84	-13	-41.84	-69.84	-56.95	1.39	5.65	H
									H
									H
									H
									H
	1408	-57.60	-13	-44.60	-65.79	-59.31	0.87	4.73	V
	2112	-50.24	-13	-37.24	-63.05	-51.16	1.17	4.24	V
	2816	-51.88	-13	-38.88	-66.52	-53.99	1.39	5.65	V
									V
									V
									V
									V
Middle	1408	-58.82	-13	-45.82	-67.11	-60.53	0.87	4.73	H
	2120	-55.12	-13	-42.12	-67.09	-56.06	1.17	4.26	H
	2824	-54.30	-13	-41.30	-69.31	-56.42	1.39	5.66	H
									H
									H
									H
									H
	1408	-59.26	-13	-46.26	-67.51	-60.97	0.87	4.73	V
	2120	-50.60	-13	-37.60	-62.50	-51.54	1.17	4.26	V
	2824	-52.59	-13	-39.59	-67.28	-54.71	1.39	5.66	V
									V
									V
									V
									V

Highest	1416	-59.40	-13	-46.40	-67.62	-61.15	0.87	4.78	H
	2120	-56.10	-13	-43.10	-67.98	-57.04	1.17	4.26	H
	2824	-54.46	-13	-41.46	-69.45	-56.58	1.39	5.66	H
									H
									H
									H
									H
	1416	-59.57	-13	-46.57	-67.80	-61.32	0.87	4.78	V
	2120	-51.24	-13	-38.24	-63.17	-52.18	1.17	4.26	V
	2824	-53.24	-13	-40.24	-67.91	-55.36	1.39	5.66	V
									V
									V
									V
									V

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