FCC RF Test Report

APPLICANT	**:**	**Zebra Technologies Corporation**
EQUIPMENT	**:**	**Enterprise Tablet**
BRAND NAME	**:**	**Zebra**
MODEL NAME	**:**	**ET55BE**
FCC ID	**:**	**UZ7ET55BE**
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 May 03, 2016 and completely tested on Jun. 06, 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
FG650305B	Rev. 01	Initial issue of report	Jun. 22, 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 7.60 dB at 5742.000 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	ET55BE
FCC ID	UZ7ET55BE
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	7.35.205.4
MFD	23-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 : 23.26 dBm LTE Band 4 : 23.10 dBm LTE Band 5 : 22.69 dBm LTE Band 13 : 22.76 dBm LTE Band 17 : 22.73 dBm LTE Band 25 : 23.22 dBm
Antenna Gain	LTE Band 2 : -0.45 dBi LTE Band 4 : -0.86 dBi LTE Band 5 : 1.57 dBi LTE Band 13 : 1.28 dBi LTE Band 17 : -1.06 dBi LTE Band 25 : -0.45 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	0.1888	0.1549
3	0.1901	0.1535
5	0.1901	0.1528
10	0.1905	0.1521
15	0.1901	0.1531
20	0.1910	0.1514
LTE Band 25	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.1884	0.1510
3	0.1884	0.1493
5	0.1892	0.1507
10	0.1858	0.1476
15	0.1884	0.1503
20	0.1858	0.1500
LTE Band 4	QPSK	16QAM
BW(MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	0.1652	0.1324
3	0.1648	0.1312
5	0.1660	0.1315
10	0.1663	0.1324
15	0.1648	0.1318
20	0.1675	0.1318
LTE Band 5	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	0.1622	0.1303
3	0.1611	0.1282
5	0.1622	0.1285
10	0.1626	0.1282

LTE Band 13	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
5	0.1542	0.1222
10	0.1545	0.1213
LTE Band 17	QPSK	16QAM
BW(MHz)	Maximum ERP(W)	Maximum ERP(W)
5	0.0889	0.0713
10	0.0895	0.0721

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

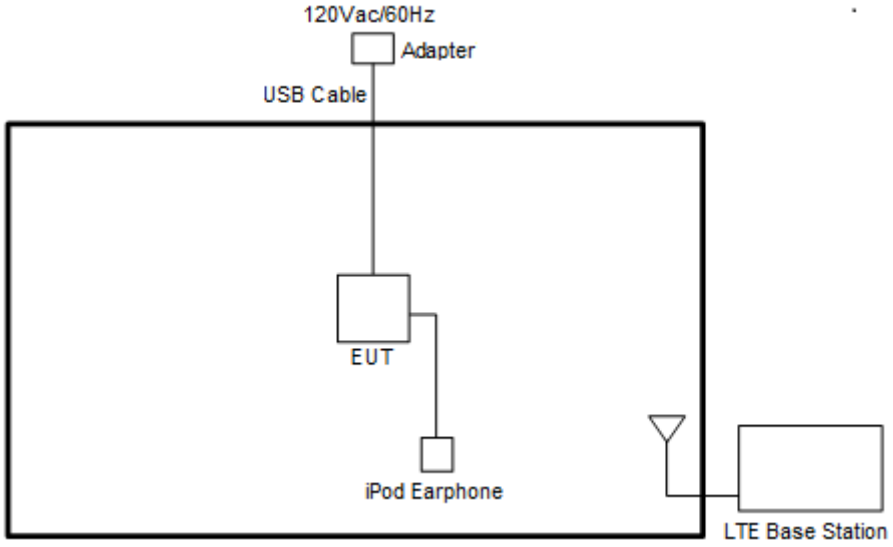
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

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

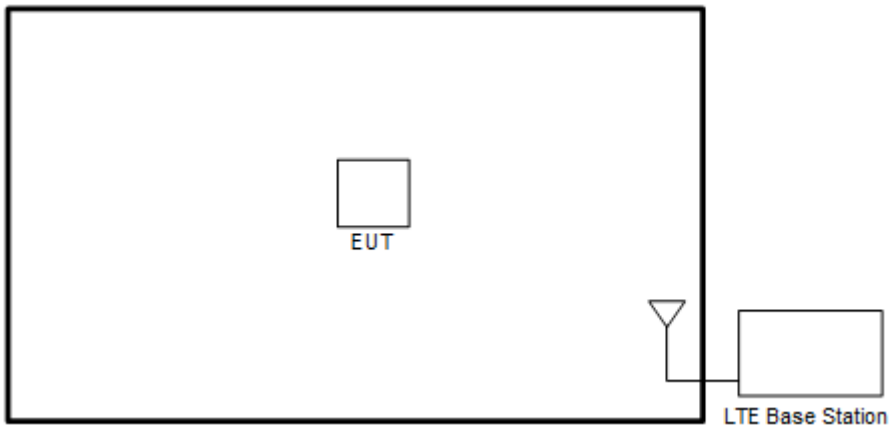
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	25	v	v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

<Radiated Spurious Emission for LTE Band 4/5/13/17/25>



<Radiated Spurious Emission for LTE Band 2>



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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
3.	Adapter	Delta Electronics	ADP-10BWC	FCC DoC	N/A	N/A

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

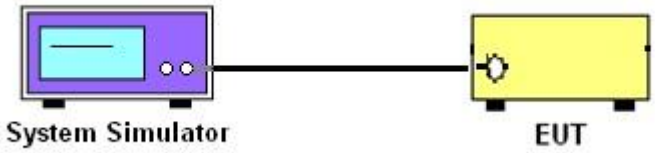
3 Conducted Test Items

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.

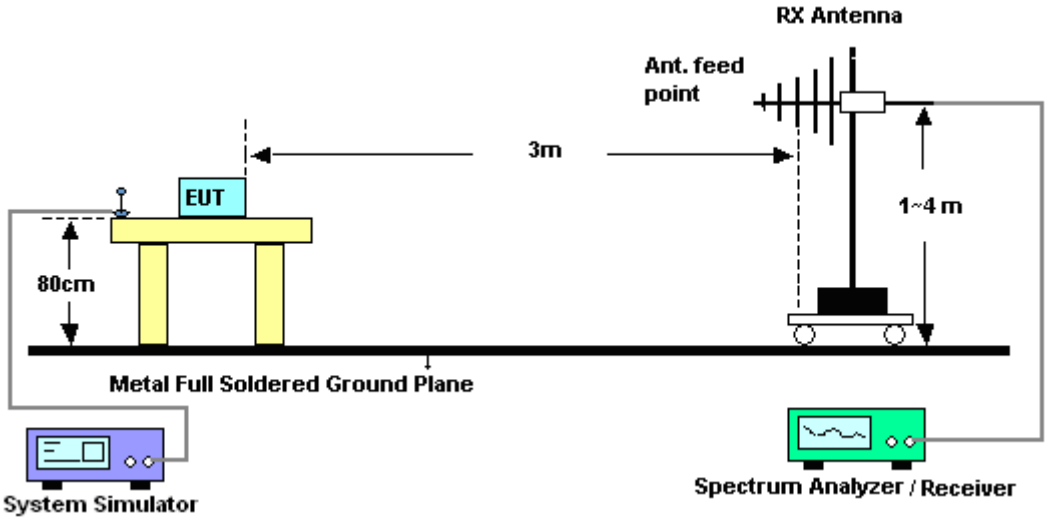
4 Radiated Test Items

4.1 Measuring Instruments

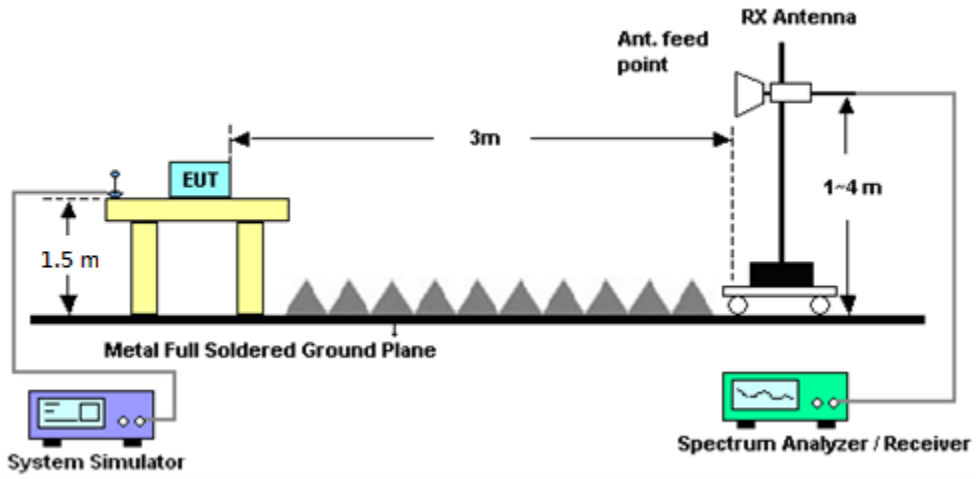
See list of measuring instruments of this test report.

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	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 16, 2015	May 31, 2016 ~ Jun. 02, 2016	Oct. 15, 2016	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 16, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Jan. 13, 2016	May 26, 2016 ~ Jun. 06, 2016	Jan. 12, 2017	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2015	May 26, 2016 ~ Jun. 06, 2016	Sep. 29, 2016	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 13, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 12, 2016	Radiation (03CH10-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1902246	1GHz~18GHz	Nov. 16, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 15, 2015	May 26, 2016 ~ Jun. 06, 2016	Oct. 14, 2016	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 26, 2016 ~ Jun. 06, 2016	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	May 26, 2016 ~ Jun. 06, 2016	N/A	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	May 26, 2016 ~ Jun. 06, 2016	Apr. 14, 2017	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 01, 2016	Radiation (03CH10-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Jul. 20, 2015	May 26, 2016 ~ Jun. 06, 2016	Jul. 19, 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	23.22	23.15	**23.26**
20	1	49		22.99	23.08	23.14
20	1	99		23.04	23.03	23.12
20	50	0		22.10	22.14	22.20
20	50	24		22.09	22.11	22.18
20	50	50		22.01	22.03	22.15
20	100	0		22.03	22.11	22.24
20	1	0	16-QAM	22.25	22.16	22.16
20	1	49		22.00	22.11	22.15
20	1	99		22.05	22.04	22.24
20	50	0		21.12	21.11	21.18
20	50	24		21.02	21.12	21.17
20	50	50		21.12	21.02	21.23
20	100	0		21.06	21.10	21.26
15	1	0	QPSK	23.23	23.05	**23.24**
15	1	37		23.00	23.08	23.23
15	1	74		22.89	22.98	23.12
15	36	0		22.08	22.10	22.22
15	36	20		22.01	22.09	22.23
15	36	39		22.04	22.05	22.24
15	75	0		21.94	22.03	22.12
15	1	0	16-QAM	22.21	22.15	22.30
15	1	37		22.02	22.14	22.21
15	1	74		21.97	22.02	22.11
15	36	0		21.15	21.19	21.22
15	36	20		21.05	21.17	21.32
15	36	39		21.02	21.11	21.30
15	75	0		20.98	21.04	21.16

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.22	23.10	**23.25**
10	1	25		23.00	23.07	23.24
10	1	49		22.90	23.02	23.16
10	25	0		22.20	22.10	22.27
10	25	12		22.02	22.20	22.23
10	25	25		22.07	22.18	22.23
10	50	0		22.00	22.07	22.27
10	1	0	16-QAM	22.22	22.16	22.27
10	1	25		22.01	22.16	22.23
10	1	49		21.90	22.08	22.16
10	25	0		21.16	21.18	21.28
10	25	12		21.09	21.18	21.35
10	25	25		21.01	21.08	21.25
10	50	0		21.01	21.07	21.30
5	1	0	QPSK	23.23	23.07	**23.24**
5	1	12		23.12	23.05	23.21
5	1	24		22.97	23.07	23.20
5	12	0		22.25	22.15	22.23
5	12	7		22.24	22.17	22.29
5	12	13		22.18	22.16	22.31
5	25	0		22.13	22.16	22.28
5	1	0	16-QAM	22.18	22.11	22.29
5	1	12		22.13	22.15	22.25
5	1	24		21.97	22.13	22.22
5	12	0		21.31	21.24	21.25
5	12	7		21.31	21.18	21.31
5	12	13		21.28	21.18	21.33
5	25	0		21.21	21.15	21.25

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.23	23.09	**23.24**
3	1	8		23.23	23.05	23.20
3	1	14		23.20	23.08	23.19
3	8	0		22.27	22.20	22.31
3	8	4		22.23	22.15	22.34
3	8	7		22.29	22.21	22.37
3	15	0		22.22	22.15	22.28
3	1	0	16-QAM	22.18	22.16	22.31
3	1	8		22.20	22.13	22.26
3	1	14		22.14	22.13	22.19
3	8	0		21.28	21.13	21.24
3	8	4		21.26	21.10	21.24
3	8	7		21.26	21.12	21.30
3	15	0		21.31	21.22	21.29
1.4	1	0	QPSK	23.20	23.10	**23.21**
1.4	1	3		23.16	23.10	23.17
1.4	1	5		23.11	23.07	23.18
1.4	3	0		23.20	23.07	23.18
1.4	3	1		23.16	23.09	23.18
1.4	3	3		23.20	23.10	23.13
1.4	6	0		22.26	22.17	22.35
1.4	1	0	16-QAM	22.12	22.10	22.35
1.4	1	3		22.17	22.15	22.26
1.4	1	5		22.16	22.13	22.28
1.4	3	0		22.21	22.21	22.33
1.4	3	1		22.17	22.13	22.33
1.4	3	3		22.22	22.15	22.22
1.4	6	0		21.33	21.22	21.44

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.01	23.02	**23.14**
20	1	49		23.00	22.99	23.05
20	1	99		22.99	22.94	23.04
20	50	0		22.10	22.07	22.17
20	50	24		22.05	22.04	22.09
20	50	50		21.92	21.95	22.08
20	100	0		21.87	22.01	22.12
20	1	0	16-QAM	21.98	22.01	22.21
20	1	49		21.91	22.08	22.09
20	1	99		21.86	21.98	22.06
20	50	0		21.04	21.03	21.10
20	50	24		21.00	20.98	21.10
20	50	50		20.89	20.92	21.11
20	100	0		20.87	20.99	21.15
15	1	0	QPSK	23.10	22.98	**23.20**
15	1	37		22.89	23.00	23.11
15	1	74		22.86	22.87	23.05
15	36	0		22.00	22.02	22.09
15	36	20		21.99	22.03	22.13
15	36	39		21.92	21.96	22.20
15	75	0		21.91	21.93	22.11
15	1	0	16-QAM	22.01	22.00	22.22
15	1	37		21.90	22.07	22.11
15	1	74		21.85	21.97	22.04
15	36	0		20.92	21.03	21.11
15	36	20		20.94	21.02	21.13
15	36	39		20.88	20.96	21.22
15	75	0		20.84	20.93	21.05

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.02	23.03	**23.14**
10	1	25		22.95	22.99	23.09
10	1	49		22.94	22.92	23.08
10	25	0		21.97	22.04	22.12
10	25	12		22.02	22.06	22.20
10	25	25		21.97	22.04	22.24
10	50	0		21.95	22.02	22.17
10	1	0	16-QAM	22.02	22.03	22.14
10	1	25		21.91	22.03	22.08
10	1	49		21.90	21.95	22.07
10	25	0		20.99	21.03	21.12
10	25	12		20.98	21.04	21.19
10	25	25		20.86	21.02	21.17
10	50	0		20.89	20.99	21.18
5	1	0	QPSK	23.05	23.02	**23.22**
5	1	12		22.95	23.01	23.17
5	1	24		22.88	22.99	23.12
5	12	0		22.00	22.12	22.20
5	12	7		21.95	22.07	22.23
5	12	13		21.90	22.08	22.21
5	25	0		22.03	22.02	22.23
5	1	0	16-QAM	22.00	22.01	22.23
5	1	12		21.95	22.05	22.16
5	1	24		21.90	22.03	22.14
5	12	0		21.02	21.12	21.20
5	12	7		21.05	21.09	21.24
5	12	13		20.92	21.08	21.22
5	25	0		20.98	21.04	21.24

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.02	23.00	**23.20**
3	1	8		22.95	23.00	23.17
3	1	14		23.00	22.99	23.14
3	8	0		22.06	22.11	22.17
3	8	4		21.94	22.03	22.28
3	8	7		22.01	22.09	22.28
3	15	0		21.94	22.05	22.22
3	1	0	16-QAM	22.00	22.08	22.19
3	1	8		21.92	22.04	22.18
3	1	14		21.94	21.99	22.14
3	8	0		20.99	21.03	21.12
3	8	4		20.89	21.00	21.19
3	8	7		20.95	20.97	21.22
3	15	0		20.94	21.07	21.21
1.4	1	0	QPSK	23.03	22.96	**23.20**
1.4	1	3		23.00	23.03	23.17
1.4	1	5		22.94	22.99	23.12
1.4	3	0		23.03	23.01	23.09
1.4	3	1		23.05	23.02	23.14
1.4	3	3		23.02	23.03	23.08
1.4	6	0		22.07	22.10	22.24
1.4	1	0	16-QAM	21.94	22.01	22.24
1.4	1	3		21.99	22.01	22.17
1.4	1	5		21.91	21.98	22.13
1.4	3	0		22.05	22.05	22.10
1.4	3	1		22.07	22.07	22.18
1.4	3	3		22.05	22.08	22.18
1.4	6	0		21.13	21.09	21.24

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.03	22.93	**23.10**
20	1	49		22.84	22.92	22.99
20	1	99		22.92	22.92	22.87
20	50	0		22.01	22.08	22.09
20	50	24		21.84	22.01	22.07
20	50	50		21.96	22.00	21.84
20	100	0		21.99	21.92	21.94
20	1	0	16-QAM	22.06	22.00	21.93
20	1	49		21.93	22.00	22.05
20	1	99		21.97	22.00	21.87
20	50	0		21.01	20.98	21.12
20	50	24		20.90	21.01	21.09
20	50	50		20.94	21.07	20.90
20	100	0		20.99	21.00	20.94
15	1	0	QPSK	23.02	22.97	**23.03**
15	1	37		22.96	22.93	22.94
15	1	74		22.93	22.93	22.82
15	36	0		22.03	21.95	22.08
15	36	20		21.98	22.01	22.01
15	36	39		21.91	22.04	21.77
15	75	0		21.93	21.95	21.85
15	1	0	16-QAM	22.05	22.02	22.06
15	1	37		21.90	21.97	21.97
15	1	74		21.94	21.97	21.86
15	36	0		21.05	20.99	21.12
15	36	20		21.04	21.04	21.05
15	36	39		20.95	21.06	20.89
15	75	0		20.89	20.98	20.98

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.02	23.01	**23.07**
10	1	25		23.01	22.94	22.91
10	1	49		22.90	22.88	22.89
10	25	0		22.09	22.02	22.02
10	25	12		22.09	21.99	21.91
10	25	25		22.08	22.05	21.88
10	50	0		22.03	22.00	21.90
10	1	0	16-QAM	22.07	22.07	22.08
10	1	25		22.01	21.98	21.89
10	1	49		21.92	21.91	21.92
10	25	0		21.05	21.03	21.03
10	25	12		21.06	21.03	20.92
10	25	25		21.06	21.04	20.87
10	50	0		21.01	21.06	20.91
5	1	0	QPSK	23.04	22.92	**23.06**
5	1	12		23.01	22.91	22.83
5	1	24		22.95	22.96	22.91
5	12	0		22.08	22.03	21.92
5	12	7		22.09	22.02	21.93
5	12	13		22.10	21.99	21.91
5	25	0		22.03	21.98	21.92
5	1	0	16-QAM	22.03	21.99	22.05
5	1	12		22.02	21.98	21.85
5	1	24		21.97	22.01	21.92
5	12	0		21.11	21.05	20.96
5	12	7		21.10	21.06	20.97
5	12	13		21.11	21.10	21.01
5	25	0		21.03	21.01	20.92

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.02	22.92	**23.03**
3	1	8		23.01	22.95	22.92
3	1	14		23.01	22.96	22.92
3	8	0		22.10	22.04	21.85
3	8	4		22.02	22.03	21.89
3	8	7		22.04	21.99	21.96
3	15	0		22.02	22.03	21.90
3	1	0	16-QAM	22.03	21.95	22.04
3	1	8		22.03	22.01	22.03
3	1	14		21.98	21.97	21.87
3	8	0		21.00	21.01	20.88
3	8	4		20.97	21.00	20.91
3	8	7		20.98	21.02	21.00
3	15	0		21.12	21.01	20.91
1.4	1	0	QPSK	23.03	22.91	**23.04**
1.4	1	3		23.02	22.94	22.92
1.4	1	5		23.01	22.91	22.93
1.4	3	0		22.99	22.99	22.93
1.4	3	1		23.03	22.99	22.94
1.4	3	3		23.01	22.98	22.94
1.4	6	0		22.07	22.03	21.97
1.4	1	0	16-QAM	22.07	21.94	22.08
1.4	1	3		22.00	21.94	21.93
1.4	1	5		21.97	21.93	21.91
1.4	3	0		21.97	22.00	22.02
1.4	3	1		22.03	22.04	21.97
1.4	3	3		22.02	22.05	21.98
1.4	6	0		21.13	21.10	21.06

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.64	22.61	**22.69**
10	1	25		22.55	22.57	22.56
10	1	49		22.53	22.52	22.56
10	25	0		21.66	21.66	21.72
10	25	12		21.65	21.59	21.66
10	25	25		21.65	21.54	21.66
10	50	0		21.56	21.60	21.62
10	1	0	16-QAM	21.61	21.56	21.66
10	1	25		21.56	21.63	21.60
10	1	49		21.56	21.58	21.52
10	25	0		20.55	20.53	20.60
10	25	12		20.57	20.59	20.65
10	25	25		20.62	20.58	20.64
10	50	0		20.51	20.53	20.60
5	1	0	QPSK	22.56	22.62	**22.68**
5	1	12		22.53	22.62	22.67
5	1	24		22.62	22.57	22.52
5	12	0		21.61	21.64	21.67
5	12	7		21.59	21.62	21.70
5	12	13		21.67	21.67	21.58
5	25	0		21.61	21.61	21.67
5	1	0	16-QAM	21.55	21.61	21.67
5	1	12		21.64	21.65	21.65
5	1	24		21.59	21.59	21.53
5	12	0		20.63	20.64	20.66
5	12	7		20.58	20.66	20.69
5	12	13		20.61	20.66	20.58
5	25	0		20.55	20.60	20.58

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.53	22.62	**22.65**
3	1	8		22.54	22.60	22.63
3	1	14		22.58	22.64	22.60
3	8	0		21.61	21.66	21.66
3	8	4		21.60	21.67	21.66
3	8	7		21.58	21.64	21.61
3	15	0		21.59	21.71	21.64
3	1	0	16-QAM	21.56	21.63	21.66
3	1	8		21.56	21.60	21.58
3	1	14		21.57	21.58	21.56
3	8	0		20.53	20.54	20.61
3	8	4		20.53	20.53	20.57
3	8	7		20.50	20.56	20.57
3	15	0		20.59	20.66	20.61
1.4	1	0	QPSK	22.55	22.64	**22.68**
1.4	1	3		22.57	22.66	22.67
1.4	1	5		22.60	22.61	22.62
1.4	3	0		22.61	22.65	22.66
1.4	3	1		22.61	22.64	22.61
1.4	3	3		22.59	22.64	22.60
1.4	6	0		21.61	21.70	21.66
1.4	1	0	16-QAM	21.54	21.72	21.73
1.4	1	3		21.62	21.64	21.57
1.4	1	5		21.59	21.65	21.56
1.4	3	0		21.59	21.66	21.66
1.4	3	1		21.59	21.70	21.66
1.4	3	3		21.64	21.60	21.59
1.4	6	0		20.65	20.69	20.64

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.76	
10	1	25			22.65	
10	1	49			22.36	
10	25	0			21.74	
10	25	12			21.66	
10	25	25			21.60	
10	50	0			21.69	
10	1	0	16-QAM		21.38	
10	1	25			21.71	
10	1	49			21.67	
10	25	0			20.56	
10	25	12			20.68	
10	25	25			20.70	
10	50	0			20.66	
5	1	0	QPSK	22.41	22.75	22.74
5	1	12		22.71	22.72	22.66
5	1	24		22.71	22.66	22.62
5	12	0		21.50	21.70	21.84
5	12	7		21.55	21.74	21.75
5	12	13		21.73	21.87	21.72
5	25	0		21.59	21.70	21.66
5	1	0	16-QAM	21.43	21.74	21.70
5	1	12		21.69	21.73	21.64
5	1	24		21.71	21.64	21.61
5	12	0		20.54	20.72	20.86
5	12	7		20.60	20.79	20.74
5	12	13		20.73	20.82	20.73
5	25	0		20.59	20.68	20.71

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.69	**22.73**	22.69
10	1	25		22.61	22.60	22.55
10	1	49		22.50	22.46	22.46
10	25	0		21.76	21.77	21.74
10	25	12		21.75	21.73	21.69
10	25	25		21.70	21.73	21.66
10	50	0		21.61	21.65	21.62
10	1	0	16-QAM	21.60	21.79	21.59
10	1	25		21.74	21.75	21.78
10	1	49		21.60	21.60	21.46
10	25	0		20.69	20.66	20.64
10	25	12		20.68	20.71	20.71
10	25	25		20.78	20.75	20.66
10	50	0		20.57	20.60	20.64
5	1	0	QPSK	22.50	**22.70**	22.69
5	1	12		22.62	22.65	22.65
5	1	24		22.69	22.65	22.38
5	12	0		21.61	21.77	21.64
5	12	7		21.68	21.81	21.75
5	12	13		21.79	21.77	21.67
5	25	0		21.76	21.80	21.66
5	1	0	16-QAM	21.53	21.74	21.72
5	1	12		21.63	21.69	21.68
5	1	24		21.72	21.73	21.38
5	12	0		20.60	20.79	20.73
5	12	7		20.70	20.82	20.77
5	12	13		20.78	20.81	20.69
5	25	0		20.75	20.74	20.66

ERP/EIRP

LTE Band 2 / 1.4MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.75	0.1884
Middle		1	0	22.65	0.1841
Highest		1	0	22.76	0.1888
Lowest	16QAM	1	0	21.67	0.1469
Middle		1	0	21.65	0.1462
Highest		1	0	21.90	0.1549
Limit	EIRP < 2W			Result	Pass

LTE Band 2 / 3MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.78	0.1897
Middle		1	0	22.64	0.1837
Highest		1	0	22.79	0.1901
Lowest	16QAM	1	0	21.73	0.1489
Middle		1	0	21.71	0.1483
Highest		1	0	21.86	0.1535
Limit	EIRP < 2W			Result	Pass

LTE Band 2 / 5MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.78	0.1897
Middle		1	0	22.62	0.1828
Highest		1	0	22.79	0.1901
Lowest	16QAM	1	0	21.73	0.1489
Middle		1	0	21.66	0.1466
Highest		1	0	21.84	0.1528
Limit	EIRP < 2W			Result	Pass

LTE Band 2 / 10MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.77	0.1892
Middle		1	0	22.65	0.1841
Highest		1	0	22.80	0.1905
Lowest	16QAM	1	0	21.77	0.1503
Middle		1	0	21.71	0.1483
Highest		1	0	21.82	0.1521
Limit	EIRP < 2W			Result	Pass

LTE Band 2 / 15MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.78	0.1897
Middle		1	0	22.60	0.1820
Highest		1	0	22.79	0.1901
Lowest	16QAM	1	0	21.76	0.1500
Middle		1	0	21.70	0.1479
Highest		1	0	21.85	0.1531
Limit	EIRP < 2W			Result	Pass

LTE Band 2 / 20MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.77	0.1892
Middle		1	0	22.70	0.1862
Highest		1	0	22.81	0.1910
Lowest	16QAM	1	0	21.80	0.1514
Middle		1	0	21.71	0.1483
Highest		1	0	21.71	0.1483
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 1.4MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.58	0.1811
Middle		1	0	22.51	0.1782
Highest		1	0	22.75	0.1884
Lowest	16QAM	1	0	21.49	0.1409
Middle		1	0	21.56	0.1432
Highest		1	0	21.79	0.1510
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 3MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.57	0.1807
Middle		1	0	22.55	0.1799
Highest		1	0	22.75	0.1884
Lowest	16QAM	1	0	21.55	0.1429
Middle		1	0	21.63	0.1455
Highest		1	0	21.74	0.1493
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 5MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.60	0.1820
Middle		1	0	22.57	0.1807
Highest		1	0	22.77	0.1892
Lowest	16QAM	1	0	21.55	0.1429
Middle		1	0	21.56	0.1432
Highest		1	0	21.78	0.1507
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 10MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.57	0.1807
Middle		1	0	22.58	0.1811
Highest		1	0	22.69	0.1858
Lowest	16QAM	1	0	21.57	0.1435
Middle		1	0	21.58	0.1439
Highest		1	0	21.69	0.1476
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 15MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.65	0.1841
Middle		1	0	22.53	0.1791
Highest		1	0	22.75	0.1884
Lowest	16QAM	1	0	21.56	0.1432
Middle		1	0	21.55	0.1429
Highest		1	0	21.77	0.1503
Limit	EIRP < 2W			Result	Pass

LTE Band 25 / 20MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.56	0.1803
Middle		1	0	22.57	0.1807
Highest		1	0	22.69	0.1858
Lowest	16QAM	1	0	21.53	0.1422
Middle		1	0	21.56	0.1432
Highest		1	0	21.76	0.1500
Limit	EIRP < 2W			Result	Pass

LTE Band 4 / 1.4MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.17	0.1648
Middle		1	0	22.05	0.1603
Highest		1	0	22.18	0.1652
Lowest	16QAM	1	0	21.21	0.1321
Middle		1	0	21.08	0.1282
Highest		1	0	21.22	0.1324
Limit	EIRP < 1W			Result	Pass

LTE Band 4 / 3MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.16	0.1644
Middle		1	0	22.06	0.1607
Highest		1	0	22.17	0.1648
Lowest	16QAM	1	0	21.17	0.1309
Middle		1	0	21.09	0.1285
Highest		1	0	21.18	0.1312
Limit	EIRP < 1W			Result	Pass

LTE Band 4 / 5MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.18	0.1652
Middle		1	0	22.06	0.1607
Highest		1	0	22.20	0.1660
Lowest	16QAM	1	0	21.17	0.1309
Middle		1	0	21.13	0.1297
Highest		1	0	21.19	0.1315
Limit	EIRP < 1W			Result	Pass

LTE Band 4/ 10MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.16	0.1644
Middle		1	0	22.15	0.1641
Highest		1	0	22.21	0.1663
Lowest	16QAM	1	0	21.21	0.1321
Middle		1	0	21.21	0.1321
Highest		1	0	21.22	0.1324
Limit	EIRP < 1W			Result	Pass

LTE Band 4 / 15MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.16	0.1644
Middle		1	0	22.11	0.1626
Highest		1	0	22.17	0.1648
Lowest	16QAM	1	0	21.19	0.1315
Middle		1	0	21.16	0.1306
Highest		1	0	21.20	0.1318
Limit	EIRP < 1W			Result	Pass

LTE Band 4 / 20MHz (Average)					
Channel	Modulation	RB		EIRP(dBm)	EIRP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.17	0.1648
Middle		1	0	22.07	0.1611
Highest		1	0	22.24	0.1675
Lowest	16QAM	1	0	21.20	0.1318
Middle		1	0	21.14	0.1300
Highest		1	0	21.07	0.1279
Limit	EIRP < 1W			Result	Pass

LTE Band 5 / 1.4MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	21.97	0.1574
Middle		1	0	22.06	0.1607
Highest		1	0	22.10	0.1622
Lowest	16QAM	1	0	20.96	0.1247
Middle		1	0	21.14	0.1300
Highest		1	0	21.15	0.1303
Limit	ERP < 7W			Result	Pass

LTE Band 5 / 3MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	21.95	0.1567
Middle		1	0	22.04	0.1600
Highest		1	0	22.07	0.1611
Lowest	16QAM	1	0	20.98	0.1253
Middle		1	0	21.05	0.1274
Highest		1	0	21.08	0.1282
Limit	ERP < 7W			Result	Pass

LTE Band 5 / 5MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	21.98	0.1578
Middle		1	0	22.04	0.1600
Highest		1	0	22.10	0.1622
Lowest	16QAM	1	0	20.97	0.1250
Middle		1	0	21.03	0.1268
Highest		1	0	21.09	0.1285
Limit	ERP < 7W			Result	Pass

LTE Band 5 / 10MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	22.06	0.1607
Middle		1	0	22.03	0.1596
Highest		1	0	22.11	0.1626
Lowest	16QAM	1	0	21.03	0.1268
Middle		1	0	20.98	0.1253
Highest		1	0	21.08	0.1282
Limit	ERP < 7W			Result	Pass

LTE Band 13 / 5MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	21.54	0.1426
Middle		1	0	21.88	0.1542
Highest		1	0	21.87	0.1538
Lowest	16QAM	1	0	20.56	0.1138
Middle		1	0	20.87	0.1222
Highest		1	0	20.83	0.1211
Limit	ERP < 3W			Result	Pass

LTE Band 13 / 10MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	-	-
Middle		1	0	21.89	0.1545
Highest		1	0	-	-
Lowest	16QAM	1	0	-	-
Middle		1	0	20.84	0.1213
Highest		1	0	-	-
Limit	ERP < 3W			Result	Pass

LTE Band 17 / 5MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	19.29	0.0849
Middle		1	0	19.49	0.0889
Highest		1	0	19.48	0.0887
Lowest	16QAM	1	0	18.32	0.0679
Middle		1	0	18.53	0.0713
Highest		1	0	18.51	0.0710
Limit	ERP < 3W			Result	Pass

LTE Band 17 / 10MHz (Average)					
Channel	Modulation	RB		ERP(dBm)	ERP(W)
		Size	Offset		
Lowest	QPSK	1	0	19.48	0.0887
Middle		1	0	19.52	0.0895
Highest		1	0	19.48	0.0887
Lowest	16QAM	1	0	18.39	0.0690
Middle		1	0	18.58	0.0721
Highest		1	0	18.38	0.0689
Limit	ERP < 3W			Result	Pass

Appendix B. Test Results of Radiated Test

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	3702	-36.96	-13	-23.96	-25.55	-43.53	1.67	8.24	H
	5550	-34.47	-13	-21.47	-29.76	-41.54	2.65	9.72	H
	7404	-49.69	-13	-36.69	-49.1	-58.84	2.46	11.61	H
									H
									H
									H
									H
	3702	-48.61	-13	-35.61	-34.36	-55.18	1.67	8.24	V
	5550	-40.02	-13	-27.02	-35.13	-47.09	2.65	9.72	V
	7404	-50.03	-13	-37.03	-49.49	-59.18	2.46	11.61	V
									V
									V
									V
									V

Middle	3756	-31.97	-13	-18.97	-20.71	-38.59	1.68	8.31	H
	5634	-32.20	-13	-19.20	-27.78	-39.25	2.70	9.75	H
	7512	-46.49	-13	-33.49	-45.86	-55.87	2.43	11.81	H
									H
									H
									H
									H
	3756	-45.72	-13	-32.72	-34.52	-52.34	1.68	8.31	V
	5634	-36.49	-13	-23.49	-31.8	-43.54	2.70	9.75	V
	7512	-49.13	-13	-36.13	-48.81	-58.51	2.43	11.81	V
									V
									V
									V
									V
Highest	3816	-33.57	-13	-20.57	-22.52	-40.25	1.70	8.38	H
	5730	-32.06	-13	-19.06	-27.91	-39.09	2.76	9.79	H
	7644	-49.26	-13	-36.26	-48.56	-58.76	2.38	11.89	H
									H
									H
									H
									H
	3816	-41.30	-13	-28.30	-30.34	-47.98	1.70	8.38	V
	5730	-35.37	-13	-22.37	-31.05	-42.4	2.76	9.79	V
	7644	-47.96	-13	-34.96	-47.33	-57.46	2.38	11.89	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	-38.34	-13	-25.34	-26.93	-44.92	1.67	8.25	H
	5557.5	-32.18	-13	-19.18	-27.46	-39.24	2.66	9.72	H
	9253.5	-47.73	-13	-34.73	-48.09	-57.79	2.54	12.60	H
									H
									H
									H
									H
	3709.5	-44.41	-13	-31.41	-33.16	-50.99	1.67	8.25	V
	5557.5	-39.96	-13	-26.96	-35.08	-47.02	2.66	9.72	V
	9253.5	-50.06	-13	-37.06	-49.65	-60.12	2.54	12.60	V
									V
									V
									V
									V
Middle	3756	-34.46	-13	-21.46	-23.2	-41.08	1.68	8.31	H
	5634	-32.28	-13	-19.28	-27.86	-39.33	2.70	9.75	H
	7512	-47.10	-13	-34.10	-46.46	-56.48	2.43	11.81	H
	9399	-46.31	-13	-33.31	-46.61	-56.28	2.57	12.54	H
									H
									H
									H
	3756	-46.01	-13	-33.01	-34.88	-52.63	1.68	8.31	V
	5634	-37.38	-13	-24.38	-32.83	-44.43	2.70	9.75	V
	7512	-49.39	-13	-36.39	-48.88	-58.77	2.43	11.81	V
	9399	-50.91	-13	-37.91	-50.6	-60.88	2.57	12.54	V
									V
									V
									V

Highest	3825	-34.65	-13	-21.65	-23.6	-41.33	1.71	8.39	H
	5722.5	-34.57	-13	-21.57	-27.42	-41.61	2.75	9.79	H
	7636.5	-49.23	-13	-36.23	-48.54	-58.73	2.39	11.88	H
	9534	-45.51	-13	-32.51	-45.84	-55.39	2.60	12.48	H
									H
									H
									H
	3825	-45.41	-13	-32.41	-34.45	-52.09	1.71	8.39	V
	5722.5	-37.05	-13	-24.05	-32.76	-44.09	2.75	9.79	V
	7636.5	-50.33	-13	-37.33	-49.72	-59.83	2.39	11.88	V
	9534	-51.14	-13	-38.14	-50.87	-61.02	2.60	12.48	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	3709.5	-37.96	-13	-24.96	-26.55	-44.54	1.67	8.25	H
	5557.5	-33.47	-13	-20.47	-28.76	-40.53	2.66	9.72	H
	7405.5	-50.69	-13	-37.69	-50.1	-59.84	2.46	11.61	H
	9253.5	-47.14	-13	-34.14	-47.5	-57.2	2.54	12.60	H
									H
									H
									H
	3709.5	-44.61	-13	-31.61	-33.36	-51.19	1.67	8.25	V
	5557.5	-41.01	-13	-28.01	-36.13	-48.07	2.66	9.72	V
	7405.5	-49.03	-13	-36.03	-48.49	-58.18	2.46	11.61	V
	9253.5	-50.02	-13	-37.02	-49.71	-60.08	2.54	12.60	V
									V
									V
									V
Middle	3756	-31.97	-13	-18.97	-20.71	-38.59	1.68	8.31	H
	5634	-30.20	-13	-17.20	-25.78	-37.25	2.70	9.75	H
	7512	-47.49	-13	-34.49	-46.86	-56.87	2.43	11.81	H
	9385.5	-47.09	-13	-34.09	-47.39	-57.07	2.57	12.55	H
									H
									H
									H
	3756	-44.65	-13	-31.65	-33.52	-51.27	1.68	8.31	V
	5634	-38.38	-13	-25.38	-33.8	-45.43	2.70	9.75	V
	7512	-50.36	-13	-37.36	-49.81	-59.74	2.43	11.81	V
	9385.5	-50.16	-13	-37.16	-49.84	-60.14	2.57	12.55	V
									V
									V
									V

Highest	3808.5	-34.56	-13	-21.56	-23.45	-41.23	1.70	8.37	H
	5722.5	-33.48	-13	-20.48	-29.33	-40.52	2.75	9.79	H
	7620	-48.76	-13	-35.76	-48.07	-58.24	2.39	11.87	H
	9534	-44.76	-13	-31.76	-45.12	-54.64	2.60	12.48	H
									H
									H
									H
	3808.5	-43.36	-13	-30.36	-32.35	-50.03	1.70	8.37	V
	5722.5	-36.05	-13	-23.05	-31.76	-43.09	2.75	9.79	V
	7620	-49.17	-13	-36.17	-48.57	-58.65	2.39	11.87	V
	9534	-50.69	-13	-37.69	-50.44	-60.57	2.60	12.48	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	3709.5	-37.27	-13	-24.27	-25.86	-43.85	1.67	8.25	H
	5557.5	-35.45	-13	-22.45	-30.74	-42.51	2.66	9.72	H
	9253.5	-46.93	-13	-33.93	-47.29	-56.99	2.54	12.60	H
									H
									H
									H
									H
	3709.5	-43.66	-13	-30.66	-32.41	-50.24	1.67	8.25	V
	5557.5	-37.02	-13	-24.02	-32.14	-44.08	2.66	9.72	V
	9253.5	-49.15	-13	-36.15	-48.84	-59.21	2.54	12.60	V
									V
									V
									V
									V
Middle	3759	-32.43	-13	-19.43	-21.17	-39.06	1.69	8.31	H
	5640	-33.82	-13	-20.82	-29.4	-40.87	2.71	9.76	H
	7504.5	-46.67	-13	-33.67	-46.04	-56.04	2.43	11.80	H
	9385.5	-45.66	-13	-32.66	-45.96	-55.64	2.57	12.55	H
									H
									H
									H
	3759	-44.87	-13	-31.87	-33.74	-51.5	1.69	8.31	V
	5640	-39.65	-13	-26.65	-35.07	-46.7	2.71	9.76	V
	7504.5	-48.21	-13	-35.21	-47.68	-57.58	2.43	11.80	V
	9385.5	-51.11	-13	-38.11	-50.79	-61.09	2.57	12.55	V
									V
									V
									V

Highest	3808.5	-33.47	-13	-20.47	-22.36	-40.14	1.70	8.37	H
	5706	-36.11	-13	-23.11	-31.9	-43.15	2.74	9.78	H
	7603	-48.02	-13	-35.02	-47.34	-57.49	2.40	11.86	H
	9501	-43.11	-13	-30.11	-43.34	-53.02	2.59	12.50	H
									H
									H
									H
	3808.5	-43.77	-13	-30.77	-32.76	-50.44	1.70	8.37	V
	5706	-36.49	-13	-23.49	-32.1	-43.53	2.74	9.78	V
	7603	-48.73	-13	-35.73	-48.14	-58.2	2.40	11.86	V
	9501	-47.70	-13	-34.70	-47.38	-57.61	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	3709	-36.80	-13	-23.80	-25.39	-43.38	1.67	8.25	H
	5557	-35.57	-13	-22.57	-30.86	-42.63	2.66	9.72	H
	7405	-50.50	-13	-37.50	-49.91	-59.65	2.46	11.61	H
	9253	-47.65	-13	-34.65	-48.01	-57.71	2.54	12.60	H
									H
									H
									H
	3709	-43.74	-13	-30.74	-32.49	-50.32	1.67	8.25	V
	5557	-37.88	-13	-24.88	-33	-44.94	2.66	9.72	V
	7405	-51.36	-13	-38.36	-50.82	-60.51	2.46	11.61	V
	9253	-50.39	-13	-37.39	-50.08	-60.45	2.54	12.60	V
									V
									V
									V
Middle	3744	-32.34	-13	-19.34	-21.04	-38.95	1.68	8.29	H
	5622	-34.54	-13	-21.54	-30.05	-41.59	2.70	9.75	H
	7494	-46.77	-13	-33.77	-46.15	-56.13	2.43	11.79	H
	9367	-43.46	-13	-30.46	-43.77	-53.45	2.56	12.55	H
									H
									H
									H
	3744	-44.02	-13	-31.02	-32.85	-50.63	1.68	8.29	V
	5622	-41.11	-13	-28.11	-36.47	-48.16	2.70	9.75	V
	7494	-48.80	-13	-35.80	-48.3	-58.16	2.43	11.79	V
	9367	-47.72	-13	-34.72	-47.4	-57.71	2.56	12.55	V
									V
									V
									V

Highest	3792	-33.40	-13	-20.40	-22.21	-40.05	1.70	8.35	H
	5689.5	-36.50	-13	-23.50	-32.2	-43.54	2.73	9.78	H
	7587	-48.77	-13	-35.77	-48.1	-58.22	2.40	11.85	H
	9484.5	-42.42	-13	-29.42	-42.68	-52.34	2.59	12.51	H
									H
									H
									H
	3792	-44.48	-13	-31.48	-33.43	-51.13	1.70	8.35	V
	5689.5	-40.98	-13	-27.98	-36.58	-48.02	2.73	9.78	V
	7587	-50.13	-13	-37.13	-49.56	-59.58	2.40	11.85	V
	9484.5	-50.12	-13	-37.12	-49.8	-60.04	2.59	12.51	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	-38.57	-13	-25.57	-27.16	-45.14	1.67	8.24	H
	5556	-38.68	-13	-25.68	-33.97	-45.75	2.66	9.72	H
	7404	-56.41	-13	-43.41	-55.82	-65.56	2.46	11.61	H
									H
									H
									H
									H
	3702	-44.29	-13	-31.29	-33.04	-50.86	1.67	8.24	V
	5556	-44.85	-13	-31.85	-39.97	-51.92	2.66	9.72	V
	7404	-53.91	-13	-40.91	-53.37	-63.06	2.46	11.61	V
	9252	-52.56	-13	-39.56	-52.24	-62.62	2.54	12.60	V
									V
									V
									V
Middle	3744	-36.68	-13	-23.68	-25.38	-43.29	1.68	8.29	H
	5616	-38.55	-13	-25.55	-34.06	-45.6	2.69	9.75	H
	7482	-50.03	-13	-37.03	-49.41	-59.36	2.44	11.76	H
	9357	-47.88	-13	-34.88	-48.19	-57.88	2.56	12.56	H
									H
									H
									H
	3760	-44.89	-13	-31.89	-33.72	-51.52	1.69	8.31	V
	5636	-42.25	-13	-29.25	-37.61	-49.3	2.70	9.75	V
	7520	-47.58	-13	-34.58	-47.07	-56.97	2.42	11.81	V
	9357	-52.25	-13	-39.25	-50.93	-62.25	2.56	12.56	V
									V
									V
									V

Highest	3780	-38.00	-13	-25.00	-26.85	-44.64	1.69	8.34	H
	5676	-40.05	-13	-27.05	-35.73	-47.09	2.73	9.77	H
	7566	-40.06	-13	-27.06	-52.4	-49.49	2.41	11.84	H
	9451	-49.02	-13	-36.02	-49.29	-58.96	2.58	12.52	H
									H
									H
									H
	3800	-44.77	-13	-31.77	-33.74	-51.43	1.70	8.36	V
	5700	-44.81	-13	-31.81	-40.35	-51.85	2.74	9.78	V
	7600	-51.21	-13	-38.21	-50.7	-60.67	2.40	11.86	V
	9500	-54.70	-13	-41.70	-54.35	-64.61	2.59	12.50	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	3828	-43.62	-13	-30.62	-60.84	-50.31	1.71	8.39	H
	5742	-29.03	-13	-16.03	-51.97	-36.06	2.76	9.80	H
	7656	-37.32	-13	-24.32	-64.8	-46.83	2.38	11.89	H
	9567	-40.70	-13	-27.70	-71.24	-50.56	2.60	12.46	H
	11478	-39.84	-13	-26.84	-72.3	-49.47	2.68	12.31	H
									H
									H
	3828	-40.83	-13	-27.83	-58.14	-47.52	1.71	8.39	V
	5742	-20.60	-13	-7.60	-43.41	-27.63	2.76	9.80	V
	7656	-35.89	-13	-22.89	-63.44	-45.4	2.38	11.89	V
	9567	-38.93	-13	-25.93	-68.89	-48.79	2.60	12.46	V
	11478	-35.62	-13	-22.62	-68.99	-45.25	2.68	12.31	V
									V
									V

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

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	3822	-43.28	-13	-30.28	-60.5	-49.96	1.71	8.39	H
	5736	-28.65	-13	-15.65	-51.59	-35.68	2.76	9.79	H
	7650	-37.76	-13	-24.76	-65.22	-47.27	2.38	11.89	H
	9556.5	-41.67	-13	-28.67	-72.16	-51.53	2.60	12.47	H
	11478	-39.41	-13	-26.41	-71.87	-49.04	2.68	12.31	H
									H
									H
	3822	-42.82	-13	-29.82	-60.13	-49.5	1.71	8.39	V
	5736	-23.38	-13	-10.38	-46.19	-30.41	2.76	9.79	V
	7650	-36.16	-13	-23.16	-63.69	-45.67	2.38	11.89	V
	9556.5	-39.87	-13	-26.87	-69.79	-49.73	2.60	12.47	V
	11478	-34.90	-13	-21.90	-68.27	-44.53	2.68	12.31	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	3822	-44.72	-13	-31.72	-61.93	-51.4	1.71	8.39	H
	5730	-34.67	-13	-21.67	-57.54	-41.7	2.76	9.79	H
	7644	-41.00	-13	-28.00	-68.47	-50.5	2.38	11.89	H
	9556.5	-45.34	-13	-32.34	-75.8	-55.2	2.60	12.47	H
	11467.5	-44.37	-13	-31.37	-76.82	-54	2.68	12.31	H
									H
									H
	3822	-43.82	-13	-30.82	-61.17	-50.5	1.71	8.39	V
	5730	-30.37	-13	-17.37	-52.16	-37.4	2.76	9.79	V
	7644	-40.00	-13	-27.00	-67.57	-49.5	2.38	11.89	V
	9556.5	-43.74	-13	-30.74	-73.63	-53.6	2.60	12.47	V
	11467.5	-40.27	-13	-27.27	-73.62	-49.9	2.68	12.31	V
									V
									V

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

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	3810	-42.59	-13	-29.59	-59.75	-49.26	1.70	8.37	H
	5718	-31.15	-13	-18.15	-54.07	-38.19	2.75	9.79	H
	7620	-35.85	-13	-22.85	-63.26	-45.33	2.39	11.87	H
	9525	-41.81	-13	-28.81	-72.2	-51.7	2.60	12.49	H
									H
									H
									H
	3810	-41.23	-13	-28.23	-58.49	-47.9	1.70	8.37	V
	5718	-24.77	-13	-11.77	-47.55	-31.81	2.75	9.79	V
	7620	-34.35	-13	-21.35	-61.85	-43.83	2.39	11.87	V
	9525	-37.92	-13	-24.92	-67.74	-47.81	2.60	12.49	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	3804	-43.39	-13	-30.39	-60.55	-50.06	1.70	8.36	H
	5700	-35.83	-13	-22.83	-58.69	-42.87	2.74	9.78	H
	7602	-35.77	-13	-22.77	-63.17	-45.23	2.40	11.86	H
	9504	-42.09	-13	-29.09	-72.44	-52	2.59	12.50	H
									H
									H
									H
	3804	-40.42	-13	-27.42	-57.68	-47.09	1.70	8.36	V
	5700	-28.50	-13	-15.50	-51.22	-35.54	2.74	9.78	V
	7602	-34.28	-13	-21.28	-61.77	-43.74	2.40	11.86	V
	9504	-38.26	-13	-25.26	-68.04	-48.17	2.59	12.50	V
									V
									V
									V

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

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	-43.40	-13	-30.40	-31.4	-50.05	1.70	8.35	H
	5688	-36.07	-13	-23.07	-24.07	-43.11	2.73	9.78	H
	7584	-37.48	-13	-24.48	-25.48	-46.93	2.40	11.85	H
									H
									H
									H
									H
	3792	-40.55	-13	-27.55	-57.76	-47.2	1.70	8.35	V
	5688	-25.90	-13	-12.90	-48.62	-32.94	2.73	9.78	V
	7584	-34.46	-13	-21.46	-61.94	-43.91	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	3420	-42.93	-13	-29.93	-31.02	-49	1.58	7.65	H
	5130	-45.21	-13	-32.21	-39.1	-52.5	2.41	9.70	H
	6840	-49.22	-13	-36.22	-48.59	-57.19	2.64	10.61	H
									H
									H
									H
									H
	3420	-36.93	-13	-23.93	-25.13	-43	1.58	7.65	V
	5130	-48.31	-13	-35.31	-42.61	-55.6	2.41	9.70	V
	6840	-47.03	-13	-34.03	-46.29	-55	2.64	10.61	V
	8550	-47.87	-13	-34.87	-47.77	-58	2.39	12.52	V
	10260	-47.39	-13	-34.39	-49.33	-57	2.69	12.30	V
	15394.5	-45.61	-13	-32.61	-55.12	-56	3.76	14.15	V
									V
Middle	3462	-48.36	-13	-35.36	-36.63	-54.6	1.59	7.83	H
	5196	-41.95	-13	-28.95	-36.54	-49.2	2.45	9.70	H
	6930	-49.20	-13	-36.20	-49	-57.3	2.61	10.72	H
									H
									H
									H
									H
	3462	-45.76	-13	-32.76	-34.49	-52	1.59	7.83	V
	5196	-40.75	-13	-27.75	-35.03	-48	2.45	9.70	V
	6930	-45.90	-13	-32.90	-45.21	-54	2.61	10.72	V
	10396.5	-45.03	-13	-32.03	-46.9	-54.7	2.69	12.36	V
									V
									V
									V

Highest	3510	-38.60	-13	-25.60	-26.7	-45	1.61	8.01	H
	5262	-41.29	-13	-28.29	-35.68	-48.5	2.49	9.70	H
	7014	-49.06	-13	-36.06	-48.7	-57.3	2.59	10.83	H
									H
									H
									H
									H
	3510	-35.10	-13	-22.10	-23.49	-41.5	1.61	8.01	V
	5262	-41.19	-13	-28.19	-35.48	-48.4	2.49	9.70	V
	7014	-46.76	-13	-33.76	-46.21	-55	2.59	10.83	V
	8772	-49.32	-13	-36.32	-49.47	-59.5	2.43	12.61	V
	10522.5	-48.29	-13	-35.29	-50.62	-58	2.69	12.40	V
	15783	-45.62	-13	-32.62	-55.12	-55.6	3.92	13.90	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	3420	-40.93	-13	-27.93	-28.91	-47	1.58	7.65	H
	5130	-44.11	-13	-31.11	-38.19	-51.4	2.41	9.70	H
	6840	-49.63	-13	-36.63	-49.26	-57.6	2.64	10.61	H
									H
									H
									H
									H
	3420	-36.43	-13	-23.43	-24.7	-42.5	1.58	7.65	V
	5130	-46.71	-13	-33.71	-40.91	-54	2.41	9.70	V
	6840	-46.03	-13	-33.03	-45.75	-54	2.64	10.61	V
	8550	-48.07	-13	-35.07	-47.92	-58.2	2.39	12.52	V
	10260	-49.39	-13	-36.39	-50.99	-59	2.69	12.30	V
	15394.5	-44.61	-13	-31.61	-54.37	-55	3.76	14.15	V
									V
Middle	3462	-48.26	-13	-35.26	-36.59	-54.5	1.59	7.83	H
	5196	-41.25	-13	-28.25	-35.65	-48.5	2.45	9.70	H
	6924	-48.41	-13	-35.41	-47.86	-56.5	2.62	10.71	H
									H
									H
									H
									H
	3462	-45.26	-13	-32.26	-33.91	-51.5	1.59	7.83	V
	5196	-39.95	-13	-26.95	-34.28	-47.2	2.45	9.70	V
	6924	-48.81	-13	-35.81	-48.06	-56.9	2.62	10.71	V
	10386	-46.84	-13	-33.84	-48.81	-56.5	2.69	12.35	V
									V
									V
									V

Highest	3504	-39.10	-13	-26.10	-27.55	-45.5	1.61	8.00	H
	5256	-41.78	-13	-28.78	-30.04	-49	2.48	9.70	H
	7008	-48.27	-13	-35.27	-36.65	-56.5	2.59	10.82	H
									H
									H
									H
									H
	3504	-34.10	-13	-21.10	-22.36	-40.5	1.61	8.00	V
	5256	-42.28	-13	-29.28	-36.89	-49.5	2.48	9.70	V
	7008	-44.77	-13	-31.77	-44.34	-53	2.59	10.82	V
	15772.5	-44.00	-13	-31.00	-53.3	-54	3.92	13.92	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	3420	-43.63	-13	-30.63	-31.99	-49.7	1.58	7.65	H
	5130	-44.71	-13	-31.71	-38.74	-52	2.41	9.70	H
	6840	-47.03	-13	-34.03	-46.5	-55	2.64	10.61	H
									H
									H
									H
									H
	3420	-37.43	-13	-24.43	-25.78	-43.5	1.58	7.65	V
	5130	-46.21	-13	-33.21	-40.37	-53.5	2.41	9.70	V
	6840	-46.03	-13	-33.03	-45.72	-54	2.64	10.61	V
	8556	-48.22	-13	-35.22	-47.97	-58.36	2.39	12.52	V
	15394.5	-45.01	-13	-32.01	-54.53	-55.4	3.76	14.15	V
									V
									V
Middle	3462	-48.16	-13	-35.16	-36.16	-54.4	1.59	7.83	H
	5190	-39.15	-13	-26.15	-33.66	-46.4	2.45	9.70	H
	6924	-49.91	-13	-36.91	-49.36	-58	2.62	10.71	H
									H
									H
									H
									H
	3462	-45.76	-13	-32.76	-34.21	-52	1.59	7.83	V
	5190	-40.35	-13	-27.35	-35.1	-47.6	2.45	9.70	V
	6924	-45.91	-13	-32.91	-45.38	-54	2.62	10.71	V
									V
									V
									V
									V

Highest	3462	-48.56	-13	-35.56	-36.58	-54.8	1.59	7.83	H
	5190	-41.75	-13	-28.75	-35.83	-49	2.45	9.70	H
	6924	-48.91	-13	-35.91	-48.45	-57	2.62	10.71	H
									H
									H
									H
									H
	3462	-44.66	-13	-31.66	-32.93	-50.9	1.59	7.83	V
	5190	-39.75	-13	-26.75	-34.22	-47	2.45	9.70	V
	6924	-47.31	-13	-34.31	-46.87	-55.4	2.62	10.71	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	3420	-42.43	-13	-29.43	-30.53	-48.5	1.58	7.65	H
	5130	-48.71	-13	-35.71	-41.53	-56	2.41	9.70	H
	6840	-49.03	-13	-36.03	-48.39	-57	2.64	10.61	H
									H
									H
									H
									H
	3420	-37.43	-13	-24.43	-25.71	-43.5	1.58	7.65	V
	5130	-45.21	-13	-32.21	-39.4	-52.5	2.41	9.70	V
	6840	-45.03	-13	-32.03	-44.7	-53	2.64	10.61	V
	8556	-48.16	-13	-35.16	-47.96	-58.3	2.39	12.52	V
	15394.5	-45.01	-13	-32.01	-54.53	-55.4	3.76	14.15	V
									V
									V
Middle	3456	-47.78	-13	-34.78	-35.81	-54	1.59	7.81	H
	5184	-39.54	-13	-26.54	-33.58	-46.8	2.44	9.70	H
	6912	-50.12	-13	-37.12	-49.73	-58.2	2.62	10.69	H
									H
									H
									H
									H
	3456	-44.98	-13	-31.98	-33.14	-51.2	1.59	7.81	V
	5184	-41.84	-13	-28.84	-36.16	-49.1	2.44	9.70	V
	6912	-48.42	-13	-35.42	-47.67	-56.5	2.62	10.69	V
									V
									V
									V
									V

Highest	3492	-41.64	-13	-28.64	-30	-48	1.60	7.96	H
	5238	-44.77	-13	-31.77	-38.94	-52	2.47	9.70	H
	6984	-48.81	-13	-35.81	-48.59	-57	2.60	10.78	H
	15709.5	-40.19	-13	-27.19	-49.59	-50.3	3.89	14.01	H
	17452.5	-45.15	-13	-32.15	-57.81	-55.4	3.82	14.07	H
									H
									H
	3492	-36.14	-13	-23.14	-24.42	-42.5	1.60	7.96	V
	5238	-45.47	-13	-32.47	-39.74	-52.7	2.47	9.70	V
	6984	-46.11	-13	-33.11	-45.61	-54.3	2.60	10.78	V
	10470	-43.30	-13	-30.30	-45.48	-53	2.69	12.39	V
	15709.5	-33.90	-13	-20.90	-43.2	-44.01	3.89	14.01	V
	17452.5	-41.45	-13	-28.45	-53.58	-51.7	3.82	14.07	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	3420	-42.43	-13	-29.43	-30.5	-48.5	1.58	7.65	H
	5130	-46.21	-13	-33.21	-40.4	-53.5	2.41	9.70	H
	6846	-48.02	-13	-35.02	-47.51	-56	2.64	10.62	H
									H
									H
									H
									H
	3420	-36.93	-13	-23.93	-25.08	-43	1.58	7.65	V
	5130	-46.21	-13	-33.21	-40.21	-53.5	2.41	9.70	V
	6846	-45.02	-13	-32.02	-44.4	-53	2.64	10.62	V
	8556	-48.36	-13	-35.36	-48.42	-58.5	2.39	12.52	V
	10260	-49.89	-13	-36.89	-51.63	-59.5	2.69	12.30	V
	15394.5	-44.61	-13	-31.61	-54.39	-55	3.76	14.15	V
									V
Middle	3450	-45.41	-13	-32.41	-33.71	-51.6	1.59	7.78	H
	5178	-40.74	-13	-27.74	-35.02	-48	2.44	9.70	H
	6960	-49.05	-13	-36.05	-48.62	-57.2	2.60	10.75	H
									H
									H
									H
									H
	3450	-41.81	-13	-28.81	-30.11	-48	1.59	7.78	V
	5178	-41.74	-13	-28.74	-35.99	-49	2.44	9.70	V
	6906	-46.93	-13	-33.93	-46.53	-55	2.62	10.69	V
									V
									V
									V
									V

Highest	3480	-43.69	-13	-30.69	-31.89	-50	1.60	7.91	H
	5220	-42.26	-13	-29.26	-36.69	-49.5	2.46	9.70	H
	6966	-49.94	-13	-36.94	-49.62	-58.1	2.60	10.76	H
	10449	-44.81	-13	-31.81	-47.62	-54.5	2.69	12.38	H
	15667.5	-40.81	-13	-27.81	-50.5	-51	3.88	14.07	H
	17410.5	-38.87	-13	-25.87	-50.8	-49	3.82	13.95	H
									H
	3480	-38.39	-13	-25.39	-26.83	-44.7	1.60	7.91	V
	5220	-40.86	-13	-27.86	-35.26	-48.1	2.46	9.70	V
	6966	-47.84	-13	-34.84	-47.11	-56	2.60	10.76	V
	10449	-39.31	-13	-26.31	-41.26	-49	2.69	12.38	V
	12181.5	-44.39	-13	-31.39	-50.33	-54	2.72	12.34	V
	15667.5	-34.31	-13	-21.31	-43.77	-44.5	3.88	14.07	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	3420	-49.93	-13	-36.93	-37.93	-56	1.58	7.65	H
	5136	-49.22	-13	-36.22	-43.25	-56.5	2.42	9.70	H
	6846	-52.02	-13	-39.02	-51.94	-60	2.64	10.62	H
	8556	-58.06	-13	-45.06	-58.29	-68.2	2.39	12.52	H
									H
									H
									H
	3420	-38.93	-13	-25.93	-27.1	-45	1.58	7.65	V
	5136	-49.72	-13	-36.72	-43.68	-57	2.42	9.70	V
	6846	-48.02	-13	-35.02	-48.05	-56	2.64	10.62	V
	8556	-53.46	-13	-40.46	-53.23	-63.6	2.39	12.52	V
	10270.5	-54.09	-13	-41.09	-55.54	-63.7	2.69	12.31	V
	11982	-53.38	-13	-40.38	-59.32	-63	2.68	12.30	V
									V
Middle	3450	-47.21	-13	-34.21	-35.33	-53.4	1.59	7.78	H
	5172	-46.54	-13	-33.54	-40.59	-53.8	2.44	9.70	H
	6894	-54.65	-13	-41.65	-54.22	-62.7	2.62	10.67	H
									H
									H
									H
									H
	3450	-42.51	-13	-29.51	-30.7	-48.7	1.59	7.78	V
	5172	-47.74	-13	-34.74	-41.76	-55	2.44	9.70	V
	6894	-53.15	-13	-40.15	-52.46	-61.2	2.62	10.67	V
	8616	-56.35	-13	-43.35	-56.11	-66.5	2.40	12.55	V
									V
									V
									V

Highest	3474	-47.71	-13	-34.71	-35.97	-54	1.60	7.89	H
	5208	-45.76	-13	-32.76	-40.18	-53	2.46	9.70	H
	6942	-55.88	-13	-42.88	-55.37	-64	2.61	10.73	H
	10417.5	-51.83	-13	-38.83	-54.54	-61.5	2.69	12.37	H
	15625.5	-52.73	-13	-39.73	-62.28	-63	3.86	14.13	H
									H
									H
	3474	-42.71	-13	-29.71	-30.98	-49	1.60	7.89	V
	5208	-48.60	-13	-35.60	-42.69	-55.84	2.46	9.70	V
	6942	-54.18	-13	-41.18	-53.42	-62.3	2.61	10.73	V
	10417.5	-49.03	-13	-36.03	-51.14	-58.7	2.69	12.37	V
	15625.5	-45.13	-13	-32.13	-54.66	-55.4	3.86	14.13	V
	17358	-50.03	-13	-37.03	-62.37	-60	3.83	13.80	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	-47.72	-13	-34.72	-29.8	-49.48	0.98	4.89	H
	2472	-59.88	-13	-46.88	-45.73	-61.76	1.28	5.32	H
	3296	-58.17	-13	-45.17	-46.06	-61.58	1.54	7.10	H
	4120	-51.19	-13	-38.19	-40.92	-55.83	1.83	8.62	H
									H
									H
									H
	1648	-49.75	-13	-36.75	-37.77	-51.51	0.98	4.89	V
	2472	-58.61	-13	-45.61	-46.61	-60.49	1.28	5.32	V
	3296	-49.35	-13	-36.35	-37.35	-52.76	1.54	7.10	V
	4120	-42.69	-13	-29.69	-30.69	-47.33	1.83	8.62	V
									V
									V
									V
Middle	1672	-48.46	-13	-35.46	-30.65	-50.14	0.99	4.82	H
	2513	-52.91	-13	-39.91	-38.92	-54.88	1.29	5.41	H
	3344	-48.87	-13	-35.87	-36.79	-52.48	1.56	7.31	H
	4184	-44.69	-13	-31.69	-34.52	-49.31	1.87	8.64	H
	5016	-54.97	-13	-41.97	-48.34	-60.17	2.35	9.70	H
									H
									H
	1672	-46.79	-13	-33.79	-29	-48.47	0.99	4.82	V
	2513	-47.90	-13	-34.90	-33.93	-49.87	1.29	5.41	V
	3344	-39.39	-13	-26.39	-27.32	-43	1.56	7.31	V
	4184	-35.38	-13	-22.38	-25.14	-40	1.87	8.64	V
	5016	-46.92	-13	-33.92	-40.48	-52.12	2.35	9.70	V
									V
									V

Highest	1696	-49.99	-13	-36.99	-32.23	-51.59	1.00	4.75	H
	2544	-48.50	-13	-35.50	-34.63	-50.48	1.30	5.44	H
	3392	-51.12	-13	-38.12	-39.06	-54.92	1.57	7.52	H
	4240	-43.02	-13	-30.02	-33	-47.62	1.90	8.65	H
	5088	-55.46	-13	-42.46	-49.07	-60.62	2.39	9.70	H
									H
									H
	1696	-46.26	-13	-33.26	-28.44	-47.86	1.00	4.75	V
	2544	-42.74	-13	-29.74	-28.86	-44.72	1.30	5.44	V
	3392	-38.07	-13	-25.07	-26.11	-41.87	1.57	7.52	V
	4240	-35.31	-13	-22.31	-25.17	-39.91	1.90	8.65	V
	5088	-47.36	-13	-34.36	-41.14	-52.52	2.39	9.70	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	-47.96	-13	-34.96	-30.04	-49.72	0.98	4.89	H
	3296	-58.62	-13	-45.62	-46.54	-62.03	1.54	7.10	H
	4120	-50.16	-13	-37.16	-39.92	-54.8	1.83	8.62	H
	4944	-56.90	-13	-43.90	-49.92	-62.03	2.30	9.59	H
									H
									H
									H
	1648	-49.05	-13	-36.05	-31.04	-50.81	0.98	4.89	V
	3296	-48.25	-13	-35.25	-36.08	-51.66	1.54	7.10	V
	4120	-42.51	-13	-29.51	-32.18	-47.15	1.83	8.62	V
	4944	-49.33	-13	-36.33	-42.53	-54.46	2.30	9.59	V
									V
									V
									V
Middle	1672	-46.36	-13	-33.36	-28.55	-48.04	0.99	4.82	H
	2504	-53.19	-13	-40.19	-39.14	-55.15	1.29	5.40	H
	3344	-50.24	-13	-37.24	-38.16	-53.85	1.56	7.31	H
	4176	-43.21	-13	-30.21	-33.05	-47.83	1.86	8.64	H
	5008	-54.43	-13	-41.43	-47.8	-59.64	2.34	9.70	H
									H
									H
	1672	-45.73	-13	-32.73	-27.85	-47.41	0.99	4.82	V
	2504	-49.09	-13	-36.09	-35.08	-51.05	1.29	5.40	V
	3344	-39.90	-13	-26.90	-27.83	-43.51	1.56	7.31	V
	4176	-35.81	-13	-22.81	-25.56	-40.43	1.86	8.64	V
	5008	-44.91	-13	-31.91	-38.42	-50.12	2.34	9.70	V
									V
									V

Highest	1696	-47.19	-13	-34.19	-29.43	-48.79	1.00	4.75	H
	2536	-53.22	-13	-40.22	-39.59	-55.2	1.30	5.43	H
	3384	-50.55	-13	-37.55	-38.49	-54.32	1.57	7.49	H
	4232	-43.60	-13	-30.60	-33.55	-48.2	1.89	8.65	H
	5080	-53.25	-13	-40.25	-46.86	-58.42	2.38	9.70	H
									H
									H
	1696	-44.84	-13	-31.84	-27.02	-46.44	1.00	4.75	V
	2536	-46.56	-13	-33.56	-32.64	-48.54	1.30	5.43	V
	3384	-40.76	-13	-27.76	-28.77	-44.53	1.57	7.49	V
	4232	-34.82	-13	-21.82	-24.65	-39.42	1.89	8.65	V
	5080	-46.21	-13	-33.21	-39.99	-51.38	2.38	9.70	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	-47.91	-13	-34.91	-29.99	-49.67	0.98	4.89	H
	3296	-59.52	-13	-46.52	-47.41	-62.93	1.54	7.10	H
	4120	-51.89	-13	-38.89	-41.62	-56.53	1.83	8.62	H
	4944	-58.39	-13	-45.39	-51.38	-63.52	2.30	9.59	H
									H
									H
									H
	1648	-50.02	-13	-37.02	-32.02	-51.78	0.98	4.89	V
	3296	-48.77	-13	-35.77	-36.6	-52.18	1.54	7.10	V
	4120	-45.14	-13	-32.14	-34.82	-49.78	1.83	8.62	V
	4944	-51.51	-13	-38.51	-44.74	-56.64	2.30	9.59	V
									V
									V
									V
Middle	1672	-46.68	-13	-33.68	-28.87	-48.36	0.99	4.82	H
	2504	-51.57	-13	-38.57	-37.52	-53.53	1.29	5.40	H
	3336	-50.73	-13	-37.73	-38.5	-54.31	1.55	7.28	H
	4168	-44.88	-13	-31.88	-34.65	-49.51	1.86	8.63	H
	5008	-54.04	-13	-41.04	-47.41	-59.25	2.34	9.70	H
									H
									H
	1672	-44.94	-13	-31.94	-27.07	-46.62	0.99	4.82	V
	2504	-47.45	-13	-34.45	-33.44	-49.41	1.29	5.40	V
	3336	-39.81	-13	-26.81	-27.71	-43.39	1.55	7.28	V
	4168	-35.74	-13	-22.74	-25.46	-40.37	1.86	8.63	V
	5008	-46.59	-13	-33.59	-40.18	-51.8	2.34	9.70	V
									V
									V

Highest	1688	-47.75	-13	-34.75	-29.94	-49.38	1.00	4.77	H
	2536	-58.05	-13	-45.05	-44.12	-60.03	1.30	5.43	H
	3376	-48.94	-13	-35.94	-36.88	-52.68	1.57	7.45	H
	4224	-44.65	-13	-31.65	-34.59	-49.25	1.89	8.64	H
	5064	-55.21	-13	-42.21	-48.76	-60.39	2.37	9.70	H
									H
									H
	1688	-45.59	-13	-32.59	-27.72	-47.22	1.00	4.77	V
	2536	-55.24	-13	-42.24	-41.32	-57.22	1.30	5.43	V
	3376	-42.16	-13	-29.16	-30.17	-45.9	1.57	7.45	V
	4224	-37.75	-13	-24.75	-27.58	-42.35	1.89	8.64	V
	5064	-50.20	-13	-37.20	-43.93	-55.38	2.37	9.70	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	-47.30	-13	-34.30	-29.38	-49.06	0.98	4.89	H
	3296	-57.39	-13	-44.39	-45.28	-60.8	1.54	7.10	H
	4120	-52.22	-13	-39.22	-41.95	-56.86	1.83	8.62	H
	4944	-58.96	-13	-45.96	-51.98	-64.09	2.30	9.59	H
									H
									H
									H
	1648	-47.45	-13	-34.45	-29.46	-49.21	0.98	4.89	V
	3296	-49.02	-13	-36.02	-36.85	-52.43	1.54	7.10	V
	4120	-45.35	-13	-32.35	-35.01	-49.99	1.83	8.62	V
	4944	-50.21	-13	-37.21	-43.41	-55.34	2.30	9.59	V
									V
									V
									V
Middle	1664	-44.77	-13	-31.77	-27.08	-46.48	0.98	4.84	H
	2496	-54.26	-13	-41.26	-40.14	-56.21	1.29	5.39	H
	3328	-49.85	-13	-36.85	-37.76	-53.39	1.55	7.24	H
	4160	-42.35	-13	-29.35	-32.17	-46.98	1.85	8.63	H
	4992	-52.30	-13	-39.30	-45.46	-57.5	2.33	9.68	H
									H
									H
	1664	-43.60	-13	-30.60	-25.65	-45.31	0.98	4.84	V
	2496	-49.26	-13	-36.26	-35.23	-51.21	1.29	5.39	V
	3328	-38.41	-13	-25.41	-26.31	-41.95	1.55	7.24	V
	4160	-33.62	-13	-20.62	-23.38	-38.25	1.85	8.63	V
	4992	-43.61	-13	-30.61	-37.25	-48.81	2.33	9.68	V
									V
									V

Highest	1680	-51.60	-13	-38.60	-33.79	-53.25	0.99	4.80	H
	2520	-55.10	-13	-42.10	-41.11	-57.07	1.30	5.42	H
	3360	-51.49	-13	-38.49	-39.42	-55.16	1.56	7.38	H
	4200	-47.99	-13	-34.99	-37.86	-52.6	1.88	8.64	H
	5040	-56.31	-13	-43.31	-49.8	-61.5	2.36	9.70	H
									H
									H
	1680	-50.00	-13	-37.00	-32.12	-51.65	0.99	4.80	V
	2520	-49.26	-13	-36.26	-35.29	-51.23	1.30	5.42	V
	3360	-41.24	-13	-28.24	-29.19	-44.91	1.56	7.38	V
	4200	-39.19	-13	-26.19	-28.96	-43.8	1.88	8.64	V
	5040	-48.48	-13	-35.48	-42.2	-53.67	2.36	9.70	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	1552	-52.34	-13	-39.34	-61.65	-54.41	0.94	5.15	H
	2328	-54.78	-13	-41.78	-67.69	-56.28	1.24	4.88	H
	3104	-54.26	-13	-41.26	-70.02	-56.89	1.48	6.26	H
									H
									H
									H
									H
	1552	-51.04	-13.00	-38.04	-60.27	-53.11	0.94	5.15	V
	2328	-55.27	-13	-42.27	-68.20	-56.77	1.24	4.88	V
	3104	-53.41	-13	-40.41	-68.85	-56.04	1.48	6.26	V
									V
									V
									V
									V
Middle	1560	-54.08	-42.15	-11.93	-63.45	-56.12	0.94	5.13	H
	2336	-55.41	-13	-42.41	-68.40	-56.93	1.24	4.91	H
	3120	-54.18	-13	-41.18	-69.95	-56.87	1.49	6.33	H
									H
									H
									H
									H
	1560	-51.64	-42.15	-9.49	-60.93	-53.68	0.94	5.13	V
	2336	-56.03	-13	-43.03	-69.04	-57.55	1.24	4.91	V
	3120	-54.23	-13	-41.23	-69.68	-56.92	1.49	6.33	V
									V
									V
									V
									V

Highest	1568	-57.29	-42.15	-15.14	-66.66	-59.31	0.94	5.11	H
	2344	-51.20	-13	-38.20	-64.20	-52.74	1.24	4.93	H
	3136	-53.54	-13	-40.54	-69.34	-56.30	1.49	6.40	H
									H
									H
									H
									H
	1568	-57.00	-42.15	-14.85	-66.29	-59.02	0.94	5.11	V
	2344	-51.57	-13	-38.57	-64.58	-53.11	1.24	4.93	V
	3136	-55.27	-13	-42.27	-70.77	-58.03	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	1552	-52.68	-13	-39.68	-62	-54.75	0.94	5.15	H
	2336	-52.77	-13	-39.77	-65.76	-54.29	1.24	4.91	H
	3104	-54.00	-13	-41.00	-69.77	-56.63	1.48	6.26	H
									H
									H
									H
									H
	1552	-51.65	-13	-38.65	-60.89	-53.72	0.94	5.15	V
	2336	-55.37	-13	-42.37	-68.38	-56.89	1.24	4.91	V
	3104	-54.58	-13	-41.58	-69.99	-57.21	1.48	6.26	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	-62.89	-13	-49.89	-43.89	-64.60	0.87	4.73	H
	2112	-57.88	-13	-44.88	-41.60	-58.80	1.17	4.24	H
	2816	-62.69	-13	-49.69	-49.81	-64.80	1.39	5.65	H
	3520	-62.34	-13	-49.34	-50.36	-66.60	1.61	8.02	H
									H
									H
									H
	1408	-57.79	-13	-44.79	-38.72	-59.50	0.87	4.73	V
	2112	-58.88	-13	-45.88	-42.58	-59.80	1.17	4.24	V
	2816	-57.09	-13	-44.09	-43.88	-59.20	1.39	5.65	V
	3520	-55.74	-13	-42.74	-44.06	-60.00	1.61	8.02	V
									V
									V
									V
Middle	1416	-64.25	-13	-51.25	-45.24	-66.00	0.87	4.78	H
	2120	-58.66	-13	-45.66	-42.47	-59.60	1.17	4.26	H
	2832	-63.38	-13	-50.38	-50.58	-65.50	1.39	5.67	H
	3536	-61.82	-13	-48.82	-49.94	-66.10	1.62	8.04	H
									H
									H
									H
	1416	-57.95	-13	-44.95	-38.94	-59.70	0.87	4.78	V
	2120	-61.16	-13	-48.16	-45.01	-62.10	1.17	4.26	V
	2832	-60.08	-13	-47.08	-46.90	-62.20	1.39	5.67	V
	3536	-57.52	-13	-44.52	-45.84	-61.80	1.62	8.04	V
									V
									V
									V

Highest	1424	-61.63	-13	-48.63	-42.78	-63.43	0.88	4.83	H
	2136	-59.58	-13	-46.58	-43.53	-60.56	1.18	4.31	H
	2848	-63.75	-13	-50.75	-50.95	-65.88	1.40	5.68	H
	3560	-63.09	-13	-50.09	-51.28	-67.39	1.62	8.07	H
									H
									H
									H
	1424	-55.06	-13	-42.06	-36.14	-56.86	0.88	4.83	V
	2136	-64.56	-13	-51.56	-44.50	-65.54	1.18	4.31	V
	2848	-58.53	-13	-45.53	-45.39	-60.66	1.40	5.68	V
	3560	-54.69	-13	-41.69	-43.10	-58.99	1.62	8.07	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	-63.99	-13	-50.99	-44.98	-65.70	0.87	4.73	H
	2112	-59.28	-13	-46.28	-43.08	-60.20	1.17	4.24	H
	2816	-60.39	-13	-47.39	-47.44	-62.50	1.39	5.65	H
	3520	-63.24	-13	-50.24	-51.25	-67.50	1.61	8.02	H
									H
									H
									H
	1408	-57.89	-13	-44.89	-38.90	-59.60	0.87	4.73	V
	2112	-58.18	-13	-45.18	-41.88	-59.10	1.17	4.24	V
	2816	-56.39	-13	-43.39	-43.18	-58.50	1.39	5.65	V
	3520	-57.44	-13	-44.44	-45.76	-61.70	1.61	8.02	V
									V
									V
									V
Middle	1408	-62.19	-13	-49.19	-43.19	-63.90	0.87	4.73	H
	2120	-61.06	-13	-48.06	-44.87	-62.00	1.17	4.26	H
	2824	-62.58	-13	-49.58	-49.61	-64.70	1.39	5.66	H
	3528	-62.33	-13	-49.33	-50.46	-66.60	1.61	8.03	H
									H
									H
									H
	1408	-58.79	-13	-45.79	-39.77	-60.50	0.87	4.73	V
	2120	-58.96	-13	-45.96	-42.77	-59.90	1.17	4.26	V
	2824	-58.48	-13	-45.48	-45.22	-60.60	1.39	5.66	V
	3528	-53.13	-13	-40.13	-41.44	-57.40	1.61	8.03	V
									V
									V
									V

Highest	1416	-64.05	-13	-51.05	-45.05	-65.80	0.87	4.78	H
	2120	-61.06	-13	-48.06	-44.91	-62.00	1.17	4.26	H
	2824	-62.48	-13	-49.48	-49.56	-64.60	1.39	5.66	H
	3536	-62.62	-13	-49.62	-50.76	-66.90	1.62	8.04	H
									H
									H
									H
	1416	-58.55	-13	-45.55	-39.50	-60.30	0.87	4.78	V
	2120	-57.56	-13	-44.56	-41.38	-58.50	1.17	4.26	V
	2824	-56.78	-13	-43.78	-43.53	-58.90	1.39	5.66	V
	3536	-54.72	-13	-41.72	-43.08	-59.00	1.62	8.04	V
									V
									V
									V

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