



FCC RADIO TEST REPORT

FCC ID : B94HNI29CPD
Equipment : Notebook Computer
Brand Name : HP
Model Name : HSN-I29C
Applicant : HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standard : 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jan. 24, 2019 and testing was started from Mar. 28, 2019 and completed on Apr. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG912412B	01	Initial issue of report	Apr. 25, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
4.2	§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 12) (Band 13) (Band 17) (Band 26) (Band 66)	Pass	Under limit 19.75 dB at 1560.000 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE

Product Specification subjective to this standard	
Integrated WWAN Module	Brand Name: Fibocom Model Name: L850-GL
Antenna Type	WWAN: <Ant 1.>: PIFA Antenna <Ant 2.>: PIFA Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	George Chen
Temperature	24~25°C
Relative Humidity	50~52%

Note: The test site complies with ANSI C63.4 2014 requirement.

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. 03CH11-HY
Test Engineer	Hao Hsu, Fu Chen, and Ken Wu
Temperature	21~25°C
Relative Humidity	51~58%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No. TW1190 and TW0007



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E),
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

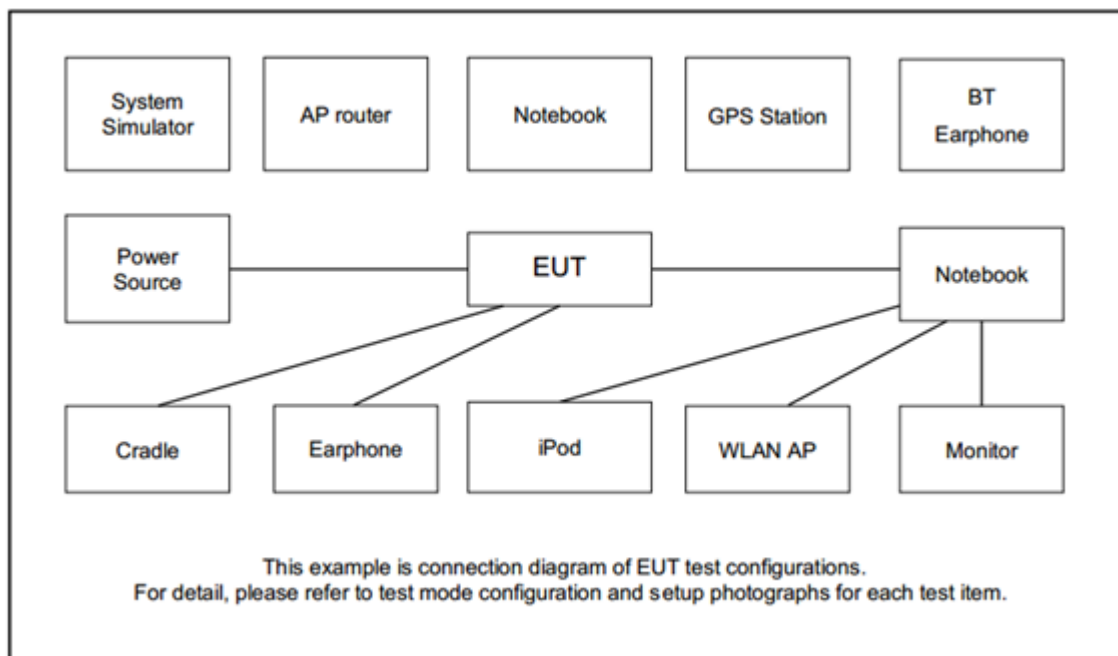
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in Notebook type and three orthogonal panels, X, Y, Z. The worst cases (X Plane for LTE Band 2 and Notebook type for LTE Band 4 / 5 / 7 / 12 / 13 / 17 / 26 / 38 / 41 / 66) were recorded in this report.

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
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	12	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
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	66	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
	7	-	-	v	v	v	v	v	v	v			v	v	v
	12	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
	26	v	v	v	v	v	-	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	Worst Case											v	v	v
	4	Worst Case											v	v	v
	5	Worst Case											v	v	v
	7	Worst Case											v	v	v
	12	Worst Case											v	v	v
	13	Worst Case											v	v	v
	17	Worst Case											v	v	v
	26	Worst Case											v	v	v
	38	Worst Case											v	v	v
	41	Worst Case											v	v	v
	66	Worst Case											v	v	v
Remark	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 No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	aibo	IP-E1	N/A	Unshielded, 1.1 m	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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



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 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5



LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and EIRP

3.2.1 Description of the Conducted Output Power Measurement and 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 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7 and Band 38 and Band 41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

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

3.2.2 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.

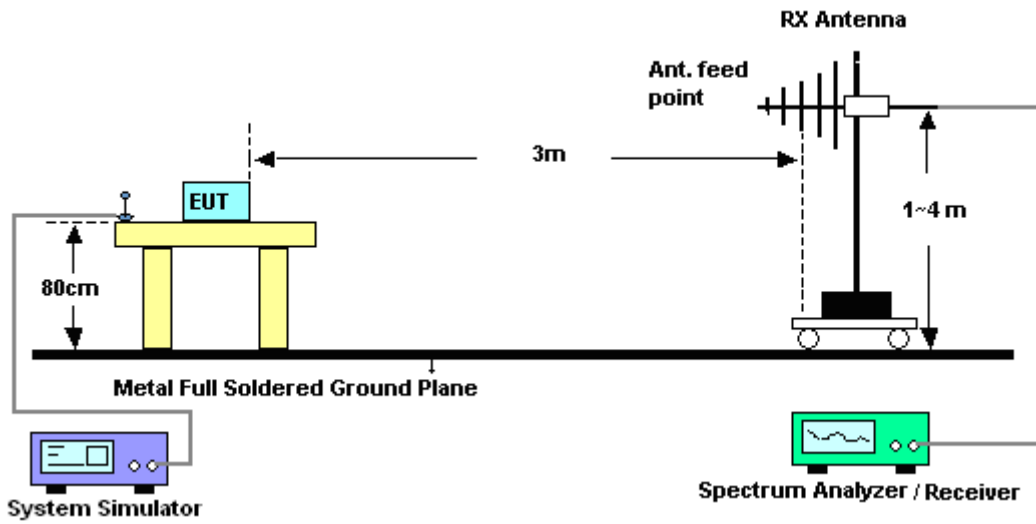
4 Radiated Test Items

4.1 Measuring Instruments

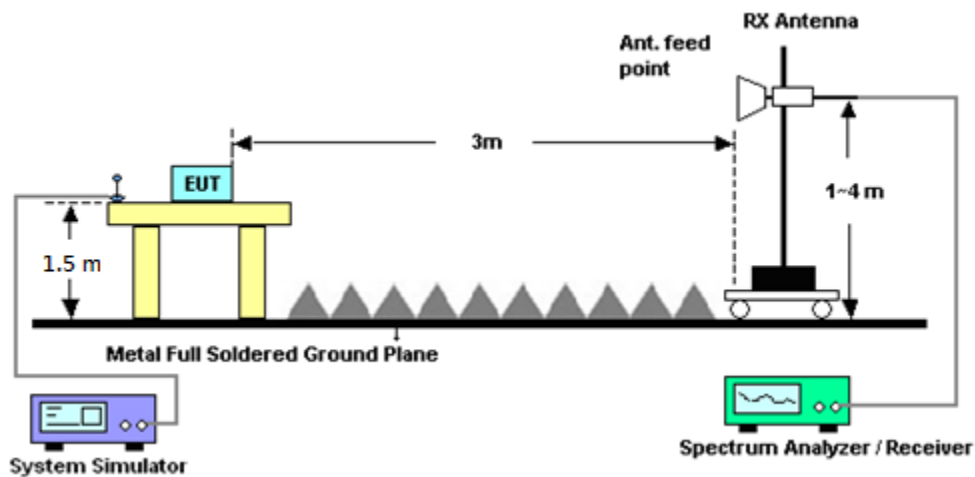
See list of measuring instruments of this test report.

4.1.1 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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

For Band 7, 38, 41

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

For LTE Band 13

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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. 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.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

11. For Band 7, 38, 41:

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

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Apr. 08, 2019~ Apr. 14, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Apr. 08, 2019~ Apr. 14, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT-N 0602	30MHz~1GHz	Oct. 13, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 15, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 14, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 09, 2018	Apr. 08, 2019~ Apr. 14, 2019	Nov. 08, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Apr. 08, 2019~ Apr. 14, 2019	Nov. 22, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY5327014 8	1GHz~26.5GHz	Nov. 14, 2018	Apr. 08, 2019~ Apr. 14, 2019	Nov. 13, 2019	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY5420048 6	10Hz ~ 44GHz	Oct. 18, 2018	Apr. 08, 2019~ Apr. 14, 2019	Oct. 17, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-108 0-1200-1500- 60SS	SN2	1.2G High Pass	Sep. 17, 2018	Apr. 08, 2019~ Apr. 14, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 17, 2018	Apr. 08, 2019~ Apr. 14, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY5329004 5	20MHz~8.4GHz	Jan. 19, 2019	Apr. 08, 2019~ Apr. 14, 2019	Jan. 18, 2020	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2018	Apr. 08, 2019~ Apr. 14, 2019	May 21, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91705 76	18GHz- 40GHz	May 08, 2018	Apr. 08, 2019~ Apr. 14, 2019	May 07, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Apr. 08, 2019~ Apr. 14, 2019	N/A	Radiation (03CH11-HY)
Base Station	Anritsu	MT8820C	6201107509	-	Mar. 02, 2018	Mar. 28, 2019	Mar. 01, 2020	Conducted (TH05-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.37
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.67
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.03
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.93	23.05	22.73
20	1	49		22.72	22.73	22.33
20	1	99		22.51	22.53	22.26
20	50	0		21.55	21.80	21.58
20	50	24		21.58	21.71	21.43
20	50	50		21.57	21.69	21.47
20	100	0		21.76	21.87	21.80
20	1	0	16-QAM	21.99	22.05	21.71
20	1	49		21.74	22.05	21.61
20	1	99		21.90	21.94	21.73
20	50	0		20.60	20.79	20.57
20	50	24		20.50	20.62	20.59
20	50	50		20.49	20.68	20.60
20	100	0		20.76	20.88	20.78
15	1	0	QPSK	22.80	22.97	22.59
15	1	37		22.65	22.70	22.42
15	1	74		22.56	22.69	22.36
15	36	0		21.55	21.78	21.45
15	36	20		21.54	21.60	21.46
15	36	39		21.48	21.68	21.56
15	75	0		21.93	22.01	21.69
15	1	0	16-QAM	21.88	22.03	21.70
15	1	37		21.79	21.90	21.67
15	1	74		22.04	21.83	21.79
15	36	0		20.64	20.69	20.50
15	36	20		20.54	20.69	20.70
15	36	39		20.58	20.67	20.69
15	75	0		20.67	20.85	20.89



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.83	22.92	22.75
10	1	25		22.72	22.70	22.36
10	1	49		22.64	22.57	22.32
10	25	0		21.63	21.71	21.54
10	25	12		21.67	21.58	21.61
10	25	25		21.53	21.68	21.39
10	50	0		21.90	21.90	21.79
10	1	0	16-QAM	21.92	22.02	21.82
10	1	25		21.91	21.93	21.75
10	1	49		21.93	21.93	21.80
10	25	0		20.57	20.67	20.58
10	25	12		20.50	20.65	20.60
10	25	25		20.49	20.69	20.53
10	50	0		20.73	20.76	20.77
5	1	0	QPSK	22.82	22.94	22.59
5	1	12		22.67	22.57	22.49
5	1	24		22.62	22.59	22.44
5	12	0		21.56	21.74	21.53
5	12	7		21.59	21.59	21.52
5	12	13		21.43	21.59	21.55
5	25	0		21.91	21.94	21.75
5	1	0	16-QAM	21.96	21.92	21.73
5	1	12		21.89	22.01	21.74
5	1	24		22.04	21.96	21.82
5	12	0		20.64	20.82	20.54
5	12	7		20.62	20.61	20.56
5	12	13		20.57	20.59	20.50
5	25	0		20.64	20.76	20.79



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.87	22.87	22.68
3	1	8		22.58	22.76	22.47
3	1	14		22.50	22.56	22.39
3	8	0		21.52	21.79	21.52
3	8	4		21.67	21.61	21.43
3	8	7		21.45	21.57	21.48
3	15	0		21.81	22.01	21.66
3	1	0	16-QAM	21.90	22.06	21.85
3	1	8		21.75	22.05	21.72
3	1	14		21.99	21.97	21.68
3	8	0		20.57	20.78	20.54
3	8	4		20.61	20.59	20.55
3	8	7		20.54	20.73	20.65
3	15	0		20.68	20.85	20.92
1.4	1	0	QPSK	22.61	22.79	22.53
1.4	1	3		22.64	22.66	22.47
1.4	1	5		22.62	22.74	22.40
1.4	3	0		22.64	22.77	22.43
1.4	3	1		22.63	22.83	22.47
1.4	3	3		22.63	22.79	22.32
1.4	6	0		21.50	21.58	21.39
1.4	1	0	16-QAM	21.79	21.73	21.67
1.4	1	3		21.85	21.72	21.75
1.4	1	5		21.80	21.79	21.64
1.4	3	0		21.54	21.68	21.50
1.4	3	1		21.47	21.87	21.55
1.4	3	3		21.47	21.63	21.29
1.4	6	0		20.57	20.68	20.49



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.73	22.96	22.75
20	1	49		22.67	22.49	22.50
20	1	99		22.46	22.46	22.65
20	50	0		21.67	21.67	21.62
20	50	24		21.58	21.53	21.53
20	50	50		21.69	21.41	21.52
20	100	0		21.82	21.73	21.73
20	1	0	16-QAM	21.63	21.93	21.65
20	1	49		21.92	21.64	21.55
20	1	99		21.82	21.45	22.11
20	50	0		20.75	20.72	20.50
20	50	24		20.88	20.59	20.46
20	50	50		20.88	20.48	20.76
20	100	0		20.83	20.71	20.71
15	1	0	QPSK	22.71	22.87	22.67
15	1	37		22.71	22.53	22.42
15	1	74		22.59	22.31	22.74
15	36	0		21.64	21.71	21.73
15	36	20		21.54	21.56	21.40
15	36	39		21.67	21.28	21.46
15	75	0		21.81	21.74	21.83
15	1	0	16-QAM	21.79	21.92	21.68
15	1	37		21.98	21.77	21.66
15	1	74		21.85	21.48	22.15
15	36	0		20.77	20.66	20.37
15	36	20		20.93	20.63	20.65
15	36	39		20.79	20.48	20.78
15	75	0		20.92	20.70	20.75



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.67	22.80	22.82
10	1	25		22.79	22.47	22.52
10	1	49		22.57	22.48	22.74
10	25	0		21.78	21.77	21.64
10	25	12		21.62	21.61	21.58
10	25	25		21.57	21.39	21.47
10	50	0		21.72	21.77	21.81
10	1	0	16-QAM	21.79	22.04	21.83
10	1	25		21.89	21.80	21.61
10	1	49		21.91	21.38	22.13
10	25	0		20.64	20.79	20.39
10	25	12		20.74	20.52	20.45
10	25	25		20.77	20.46	20.77
10	50	0		20.93	20.65	20.71
5	1	0	QPSK	22.63	22.81	22.86
5	1	12		22.69	22.64	22.54
5	1	24		22.46	22.42	22.72
5	12	0		21.61	21.83	21.74
5	12	7		21.66	21.47	21.42
5	12	13		21.68	21.41	21.60
5	25	0		21.72	21.79	21.78
5	1	0	16-QAM	21.80	21.99	21.66
5	1	12		21.91	21.73	21.65
5	1	24		21.82	21.45	22.13
5	12	0		20.71	20.73	20.40
5	12	7		20.81	20.65	20.61
5	12	13		20.73	20.35	20.80
5	25	0		20.95	20.69	20.90



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.81	22.99	22.71
3	1	8		22.65	22.57	22.48
3	1	14		22.61	22.39	22.74
3	8	0		21.76	21.80	21.65
3	8	4		21.61	21.46	21.49
3	8	7		21.74	21.31	21.61
3	15	0		21.78	21.84	21.79
3	1	0	16-QAM	21.73	21.96	21.69
3	1	8		21.97	21.77	21.70
3	1	14		21.84	21.49	22.17
3	8	0		20.66	20.82	20.32
3	8	4		20.85	20.57	20.54
3	8	7		20.83	20.48	20.92
3	15	0		20.79	20.58	20.76
1.4	1	0	QPSK	22.35	22.43	22.97
1.4	1	3		22.23	22.52	22.87
1.4	1	5		22.43	22.35	22.97
1.4	3	0		22.30	22.46	22.80
1.4	3	1		22.29	22.29	22.89
1.4	3	3		22.45	22.57	22.86
1.4	6	0		21.45	21.53	21.80
1.4	1	0	16-QAM	21.58	21.61	21.96
1.4	1	3		21.57	21.59	22.01
1.4	1	5		21.16	21.77	22.02
1.4	3	0		21.27	21.60	22.02
1.4	3	1		21.28	21.42	21.95
1.4	3	3		21.04	21.55	21.91
1.4	6	0		20.27	20.53	20.94



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.34	22.39	22.29
10	1	25		22.37	22.33	22.17
10	1	49		22.22	22.15	22.19
10	25	0		21.27	21.39	21.25
10	25	12		21.28	21.29	21.18
10	25	25		21.11	21.37	21.23
10	50	0		21.34	21.36	21.25
10	1	0	16-QAM	21.40	21.49	21.45
10	1	25		21.61	21.42	21.52
10	1	49		21.63	21.57	21.49
10	25	0		20.36	20.46	20.45
10	25	12		20.38	20.33	20.32
10	25	25		20.27	20.32	20.28
10	50	0		20.54	20.28	20.30
5	1	0	QPSK	22.27	22.36	22.29
5	1	12		22.35	22.20	22.24
5	1	24		22.18	22.24	22.34
5	12	0		21.27	21.38	21.33
5	12	7		21.30	21.16	21.16
5	12	13		21.13	21.33	21.21
5	25	0		21.46	21.33	21.34
5	1	0	16-QAM	21.40	21.53	21.55
5	1	12		21.60	21.43	21.52
5	1	24		21.65	21.52	21.60
5	12	0		20.44	20.37	20.40
5	12	7		20.50	20.30	20.19
5	12	13		20.44	20.36	20.37
5	25	0		20.59	20.47	20.37



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.24	22.33	22.25
3	1	8		22.26	22.37	22.35
3	1	14		22.27	22.22	22.24
3	8	0		21.20	21.41	21.24
3	8	4		21.15	21.25	21.08
3	8	7		21.17	21.37	21.21
3	15	0		21.36	21.35	21.32
3	1	0	16-QAM	21.35	21.54	21.57
3	1	8		21.45	21.55	21.48
3	1	14		21.64	21.42	21.60
3	8	0		20.43	20.26	20.28
3	8	4		20.49	20.28	20.22
3	8	7		20.43	20.24	20.36
3	15	0		20.56	20.44	20.38
1.4	1	0	QPSK	22.13	22.24	22.31
1.4	1	3		22.11	22.27	22.17
1.4	1	5		22.15	22.09	22.18
1.4	3	0		22.02	22.19	22.06
1.4	3	1		22.16	22.22	22.21
1.4	3	3		22.00	22.21	22.21
1.4	6	0		21.16	21.28	21.23
1.4	1	0	16-QAM	21.48	21.53	21.52
1.4	1	3		21.39	21.50	21.40
1.4	1	5		21.35	21.48	21.58
1.4	3	0		21.18	21.31	21.38
1.4	3	1		21.24	21.34	21.25
1.4	3	3		21.29	21.25	21.26
1.4	6	0		20.28	20.26	20.38



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.64	22.76	22.67
20	1	49		22.57	22.68	22.55
20	1	99		22.65	22.61	22.58
20	50	0		21.58	21.73	21.66
20	50	24		21.59	21.65	21.70
20	50	50		21.59	21.72	21.68
20	100	0		21.76	21.83	21.67
20	1	0	16-QAM	21.73	21.80	21.76
20	1	49		21.76	21.77	21.82
20	1	99		21.91	21.99	21.93
20	50	0		20.59	20.75	20.68
20	50	24		20.68	20.74	20.74
20	50	50		20.66	20.80	20.94
20	100	0		20.69	20.94	20.85
15	1	0	QPSK	22.61	22.70	22.65
15	1	37		22.63	22.55	22.61
15	1	74		22.60	22.70	22.58
15	36	0		21.71	21.67	21.74
15	36	20		21.56	21.70	21.70
15	36	39		21.72	21.82	21.56
15	75	0		21.73	21.70	21.80
15	1	0	16-QAM	21.79	21.88	21.74
15	1	37		21.71	21.94	21.71
15	1	74		21.94	21.94	22.01
15	36	0		20.68	20.86	20.74
15	36	20		20.58	20.81	20.80
15	36	39		20.70	20.74	20.88
15	75	0		20.75	20.79	20.86



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.63	22.73	22.57
10	1	25		22.56	22.70	22.60
10	1	49		22.67	22.70	22.70
10	25	0		21.71	21.84	21.61
10	25	12		21.68	21.74	21.61
10	25	25		21.59	21.75	21.68
10	50	0		21.66	21.88	21.69
10	1	0	16-QAM	21.73	21.88	21.67
10	1	25		21.61	21.79	21.68
10	1	49		21.88	21.98	21.94
10	25	0		20.56	20.74	20.70
10	25	12		20.69	20.74	20.75
10	25	25		20.80	20.80	20.88
10	50	0		20.71	20.77	20.92
5	1	0	QPSK	22.67	22.73	22.69
5	1	12		22.62	22.70	22.62
5	1	24		22.59	22.60	22.53
5	12	0		21.71	21.68	21.59
5	12	7		21.64	21.76	21.66
5	12	13		21.74	21.77	21.64
5	25	0		21.69	21.77	21.63
5	1	0	16-QAM	21.76	21.88	21.68
5	1	12		21.75	21.92	21.77
5	1	24		21.91	21.91	22.04
5	12	0		20.66	20.85	20.67
5	12	7		20.68	20.85	20.67
5	12	13		20.65	20.79	20.79
5	25	0		20.79	20.92	20.84



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.43	22.58	22.39
10	1	25		22.34	22.33	22.43
10	1	49		22.41	22.36	22.37
10	25	0		21.57	21.49	21.63
10	25	12		21.35	21.53	21.44
10	25	25		21.49	21.44	21.49
10	50	0		21.60	21.59	21.55
10	1	0	16-QAM	21.58	21.60	21.75
10	1	25		21.82	21.66	21.72
10	1	49		21.63	21.74	21.68
10	25	0		20.59	20.55	20.41
10	25	12		20.74	20.57	20.26
10	25	25		20.58	20.59	20.41
10	50	0		20.74	20.59	20.53
5	1	0	QPSK	22.43	22.54	22.53
5	1	12		22.42	22.39	22.44
5	1	24		22.41	22.51	22.49
5	12	0		21.48	21.54	21.54
5	12	7		21.34	21.44	21.46
5	12	13		21.50	21.39	21.41
5	25	0		21.51	21.66	21.57
5	1	0	16-QAM	21.55	21.62	21.83
5	1	12		21.74	21.76	21.64
5	1	24		21.61	21.74	21.82
5	12	0		20.51	20.58	20.47
5	12	7		20.63	20.62	20.32
5	12	13		20.68	20.60	20.61
5	25	0		20.65	20.68	20.58



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.46	22.55	22.44
3	1	8		22.52	22.42	22.26
3	1	14		22.38	22.37	22.47
3	8	0		21.64	21.51	21.50
3	8	4		21.49	21.34	21.38
3	8	7		21.56	21.52	21.50
3	15	0		21.51	21.64	21.58
3	1	0	16-QAM	21.54	21.68	21.68
3	1	8		21.75	21.75	21.59
3	1	14		21.64	21.71	21.83
3	8	0		20.46	20.52	20.50
3	8	4		20.62	20.57	20.30
3	8	7		20.66	20.54	20.58
3	15	0		20.79	20.61	20.60
1.4	1	0	QPSK	22.37	22.42	22.46
1.4	1	3		22.25	22.33	22.29
1.4	1	5		22.44	22.39	22.41
1.4	3	0		22.20	22.31	22.23
1.4	3	1		22.34	22.24	22.25
1.4	3	3		22.40	22.24	22.37
1.4	6	0		21.37	21.39	21.49
1.4	1	0	16-QAM	21.73	21.80	21.60
1.4	1	3		21.61	21.64	21.76
1.4	1	5		21.72	21.71	21.67
1.4	3	0		21.28	21.48	21.35
1.4	3	1		21.41	21.55	21.49
1.4	3	3		21.42	21.39	21.52
1.4	6	0		20.32	20.60	20.46



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			22.73	
10	1	49			22.72	
10	25	0			21.98	
10	25	12			21.84	
10	25	25			21.78	
10	50	0			22.08	
10	1	0	16-QAM		22.00	
10	1	25			22.18	
10	1	49			22.26	
10	25	0			20.91	
10	25	12			20.82	
10	25	25			20.71	
10	50	0			20.98	
5	1	0	QPSK	22.50	22.38	22.52
5	1	12		22.38	22.48	22.45
5	1	24		22.50	22.49	22.60
5	12	0		21.48	21.42	21.36
5	12	7		21.50	21.59	21.45
5	12	13		21.55	21.44	21.39
5	25	0		21.43	21.53	21.37
5	1	0	16-QAM	21.62	21.88	21.88
5	1	12		21.77	21.87	21.91
5	1	24		21.88	21.87	21.96
5	12	0		20.44	20.62	20.58
5	12	7		20.42	20.50	20.53
5	12	13		20.60	20.40	20.52
5	25	0		20.51	20.60	20.35



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.48	22.65	22.46
10	1	25		22.37	22.27	22.38
10	1	49		22.40	22.62	22.37
10	25	0		21.59	21.56	21.47
10	25	12		21.35	21.39	21.45
10	25	25		21.38	21.54	21.37
10	50	0		21.28	21.40	21.45
10	1	0	16-QAM	21.84	21.65	21.63
10	1	25		21.67	21.53	21.62
10	1	49		21.91	21.90	21.72
10	25	0		20.57	20.52	20.28
10	25	12		20.38	20.40	20.29
10	25	25		20.61	20.59	20.52
10	50	0		20.49	20.54	20.54
5	1	0	QPSK	22.46	22.48	22.46
5	1	12		22.44	22.39	22.26
5	1	24		22.37	22.55	22.37
5	12	0		21.61	21.50	21.39
5	12	7		21.42	21.38	21.47
5	12	13		21.47	21.47	21.38
5	25	0		21.36	21.41	21.45
5	1	0	16-QAM	21.91	21.72	21.59
5	1	12		21.74	21.62	21.55
5	1	24		21.93	21.85	21.85
5	12	0		20.53	20.54	20.42
5	12	7		20.55	20.31	20.27
5	12	13		20.46	20.58	20.65
5	25	0		20.57	20.44	20.62



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.20	22.44	22.36
15	1	37		22.28	22.22	22.19
15	1	74		22.22	22.30	22.38
15	36	0		21.29	21.50	21.18
15	36	20		21.24	21.40	21.19
15	36	39		21.11	21.32	21.15
15	75	0		21.31	21.35	21.24
15	1	0	16-QAM	21.37	21.46	21.51
15	1	37		21.36	21.54	21.49
15	1	74		21.43	21.56	21.50
15	36	0		20.29	20.39	20.15
15	36	20		20.47	20.49	20.06
15	36	39		20.28	20.43	20.21
15	75	0		20.23	20.48	20.46
10	1	0	QPSK	22.25	22.37	22.23
10	1	25		22.26	22.35	22.14
10	1	49		22.18	22.31	22.39
10	25	0		21.30	21.43	21.14
10	25	12		21.24	21.30	21.19
10	25	25		21.01	21.24	21.25
10	50	0		21.31	21.36	21.37
10	1	0	16-QAM	21.32	21.54	21.59
10	1	25		21.53	21.49	21.37
10	1	49		21.56	21.49	21.55
10	25	0		20.34	20.40	20.21
10	25	12		20.42	20.33	20.22
10	25	25		20.23	20.37	20.27
10	50	0		20.20	20.51	20.45



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.26	22.40	22.33
5	1	12		22.22	22.35	22.29
5	1	24		22.15	22.29	22.35
5	12	0		21.22	21.36	21.25
5	12	7		21.15	21.39	21.08
5	12	13		21.13	21.39	21.20
5	25	0		21.32	21.34	21.24
5	1	0	16-QAM	21.27	21.46	21.52
5	1	12		21.53	21.57	21.48
5	1	24		21.47	21.48	21.56
5	12	0		20.33	20.39	20.33
5	12	7		20.45	20.33	20.24
5	12	13		20.29	20.53	20.31
5	25	0		20.37	20.33	20.31
3	1	0	QPSK	22.32	22.29	22.32
3	1	8		22.30	22.32	22.23
3	1	14		22.26	22.25	22.24
3	8	0		21.30	21.49	21.25
3	8	4		21.25	21.40	21.11
3	8	7		21.07	21.22	21.07
3	15	0		21.29	21.48	21.21
3	1	0	16-QAM	21.36	21.55	21.58
3	1	8		21.40	21.62	21.38
3	1	14		21.57	21.55	21.55
3	8	0		20.28	20.43	20.19
3	8	4		20.44	20.41	20.22
3	8	7		20.25	20.43	20.28
3	15	0		20.34	20.51	20.36



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.10	22.28	22.15
1.4	1	3		22.00	22.33	22.14
1.4	1	5		22.08	22.31	22.31
1.4	3	0		22.00	22.26	22.14
1.4	3	1		22.15	22.22	22.18
1.4	3	3		22.13	22.26	22.10
1.4	6	0		21.07	21.37	21.28
1.4	1	0	16-QAM	21.47	21.53	21.46
1.4	1	3		21.38	21.45	21.43
1.4	1	5		21.32	21.48	21.41
1.4	3	0		21.07	21.37	21.36
1.4	3	1		21.21	21.37	21.16
1.4	3	3		21.14	21.25	21.28
1.4	6	0		20.09	20.38	20.17



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.64	22.70	22.69
20	1	49		22.46	22.58	22.36
20	1	99		22.57	22.66	22.48
20	50	0		21.64	21.71	21.67
20	50	24		21.44	21.54	21.54
20	50	50		21.57	21.70	21.48
20	100	0		21.57	21.76	21.45
20	1	0	16-QAM	21.52	21.75	21.41
20	1	49		21.39	21.71	21.40
20	1	99		21.62	21.65	21.60
20	50	0		20.44	20.55	20.57
20	50	24		20.53	20.64	20.36
20	50	50		20.39	20.59	20.42
20	100	0		20.55	20.59	20.42
15	1	0	QPSK	22.55	22.63	22.61
15	1	37		22.46	22.53	22.36
15	1	74		22.49	22.56	22.41
15	36	0		21.55	21.68	21.62
15	36	20		21.36	21.46	21.46
15	36	39		21.57	21.68	21.42
15	75	0		21.54	21.75	21.40
15	1	0	16-QAM	21.48	21.68	21.35
15	1	37		21.32	21.62	21.37
15	1	74		21.62	21.61	21.58
15	36	0		20.41	20.52	20.54
15	36	20		20.44	20.62	20.28
15	36	39		20.38	20.53	20.34
15	75	0		20.52	20.50	20.37



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.51	22.54	22.61
10	1	25		22.37	22.50	22.36
10	1	49		22.40	22.51	22.31
10	25	0		21.51	21.66	21.59
10	25	12		21.35	21.39	21.40
10	25	25		21.55	21.58	21.36
10	50	0		21.50	21.70	21.40
10	1	0	16-QAM	21.41	21.61	21.29
10	1	25		21.31	21.52	21.37
10	1	49		21.52	21.61	21.55
10	25	0		20.31	20.48	20.54
10	25	12		20.42	20.55	20.20
10	25	25		20.35	20.52	20.27
10	50	0		20.43	20.45	20.36
5	1	0	QPSK	22.46	22.46	22.53
5	1	12		22.35	22.48	22.31
5	1	24		22.35	22.45	22.31
5	12	0		21.45	21.65	21.53
5	12	7		21.32	21.30	21.40
5	12	13		21.50	21.48	21.26
5	25	0		21.46	21.68	21.33
5	1	0	16-QAM	21.35	21.51	21.24
5	1	12		21.22	21.50	21.28
5	1	24		21.52	21.59	21.54
5	12	0		20.26	20.41	20.51
5	12	7		20.40	20.46	20.11
5	12	13		20.31	20.44	20.25
5	25	0		20.40	20.37	20.28



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.40	22.45	22.71
20	1	49		22.22	22.12	22.51
20	1	99		22.33	22.24	22.58
20	50	0		21.40	21.43	21.66
20	50	24		21.20	21.30	21.46
20	50	50		21.33	21.24	21.40
20	100	0		21.33	21.21	21.63
20	1	0	16-QAM	21.28	21.17	21.44
20	1	49		21.15	21.16	21.48
20	1	99		21.38	21.36	21.60
20	50	0		20.20	20.33	20.55
20	50	24		20.29	20.12	20.45
20	50	50		20.15	20.18	20.52
20	100	0		20.31	20.18	20.62
15	1	0	QPSK	22.44	22.42	22.70
15	1	37		22.25	22.21	22.50
15	1	74		22.39	22.30	22.55
15	36	0		21.21	21.34	21.50
15	36	20		21.14	21.20	21.59
15	36	39		21.21	21.24	21.54
15	75	0		21.29	21.17	21.65
15	1	0	16-QAM	21.34	21.25	21.56
15	1	37		21.26	21.11	21.59
15	1	74		21.41	21.25	21.62
15	36	0		20.16	20.15	20.45
15	36	20		20.28	20.20	20.45
15	36	39		20.31	20.31	20.52
15	75	0		20.26	20.22	20.62



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.43	22.46	22.59
10	1	25		22.24	22.18	22.45
10	1	49		22.29	22.23	22.60
10	25	0		21.35	21.39	21.57
10	25	12		21.24	21.19	21.59
10	25	25		21.33	21.28	21.52
10	50	0		21.39	21.23	21.50
10	1	0	16-QAM	21.22	21.16	21.46
10	1	25		21.18	21.28	21.56
10	1	49		21.39	21.39	21.67
10	25	0		20.22	20.28	20.59
10	25	12		20.19	20.11	20.52
10	25	25		20.35	20.19	20.66
10	50	0		20.29	20.26	20.47
5	1	0	QPSK	22.33	22.35	22.64
5	1	12		22.18	22.15	22.50
5	1	24		22.41	22.36	22.56
5	12	0		21.39	21.38	21.55
5	12	7		21.21	21.26	21.47
5	12	13		21.28	21.33	21.46
5	25	0		21.45	21.31	21.50
5	1	0	16-QAM	21.16	21.25	21.44
5	1	12		21.28	21.17	21.59
5	1	24		21.34	21.33	21.68
5	12	0		20.21	20.17	20.55
5	12	7		20.15	20.24	20.47
5	12	13		20.30	20.16	20.55
5	25	0		20.23	20.33	20.60



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.75	22.85	23.04
20	1	49		22.73	22.60	22.49
20	1	99		22.62	22.77	22.70
20	50	0		21.91	21.66	21.81
20	50	24		21.72	21.56	21.46
20	50	50		21.74	21.54	21.35
20	100	0		21.87	21.62	21.69
20	1	0	16-QAM	21.70	21.85	22.38
20	1	49		21.98	21.78	21.82
20	1	99		21.84	22.29	21.89
20	50	0		20.70	20.54	20.84
20	50	24		20.88	20.51	20.42
20	50	50		20.85	20.90	20.39
20	100	0		20.93	20.90	20.66
15	1	0	QPSK	22.74	22.78	23.00
15	1	37		22.75	22.42	22.32
15	1	74		22.69	22.69	22.68
15	36	0		21.74	21.55	21.84
15	36	20		21.77	21.54	21.52
15	36	39		21.81	21.70	21.33
15	75	0		21.71	21.80	21.82
15	1	0	16-QAM	21.65	21.74	22.39
15	1	37		22.01	21.69	21.69
15	1	74		21.94	22.19	21.86
15	36	0		20.70	20.57	20.80
15	36	20		20.77	20.65	20.48
15	36	39		20.73	20.73	20.27
15	75	0		20.98	20.82	20.77



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.71	22.76	22.96
10	1	25		22.57	22.46	22.41
10	1	49		22.55	22.73	22.70
10	25	0		21.81	21.70	21.98
10	25	12		21.81	21.70	21.58
10	25	25		21.84	21.71	21.41
10	50	0		21.86	21.66	21.81
10	1	0	16-QAM	21.70	21.80	22.38
10	1	25		21.97	21.76	21.80
10	1	49		21.99	22.26	21.85
10	25	0		20.76	20.39	20.86
10	25	12		20.80	20.56	20.44
10	25	25		20.79	20.82	20.24
10	50	0		21.06	20.91	20.77
5	1	0	QPSK	22.73	22.79	22.97
5	1	12		22.59	22.44	22.42
5	1	24		22.55	22.78	22.68
5	12	0		21.85	21.61	21.97
5	12	7		21.78	21.58	21.48
5	12	13		21.76	21.64	21.43
5	25	0		21.87	21.60	21.88
5	1	0	16-QAM	21.68	21.79	22.38
5	1	12		21.99	21.69	21.79
5	1	24		21.96	22.29	21.77
5	12	0		20.67	20.53	20.76
5	12	7		20.94	20.56	20.50
5	12	13		20.79	20.76	20.36
5	25	0		20.91	20.88	20.76



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.66	22.73	22.96
3	1	8		22.62	22.54	22.44
3	1	14		22.61	22.71	22.63
3	8	0		21.74	21.60	21.94
3	8	4		21.88	21.70	21.58
3	8	7		21.82	21.73	21.40
3	15	0		21.84	21.79	21.89
3	1	0	16-QAM	21.62	21.86	22.36
3	1	8		21.96	21.74	21.79
3	1	14		21.96	22.32	21.85
3	8	0		20.73	20.44	20.87
3	8	4		20.78	20.64	20.43
3	8	7		20.74	20.76	20.42
3	15	0		21.10	20.87	20.63
1.4	1	0	QPSK	22.51	22.49	22.61
1.4	1	3		22.34	22.47	22.58
1.4	1	5		22.42	22.57	22.61
1.4	3	0		22.18	22.34	22.46
1.4	3	1		22.19	22.40	22.45
1.4	3	3		22.23	22.49	22.49
1.4	6	0		21.23	21.39	21.40
1.4	1	0	16-QAM	21.52	21.74	21.88
1.4	1	3		21.67	21.77	21.81
1.4	1	5		21.62	21.74	21.79
1.4	3	0		21.20	21.29	21.47
1.4	3	1		21.15	21.29	21.50
1.4	3	3		21.28	21.46	21.52
1.4	6	0		20.15	20.34	20.27



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	22.63	0.1832	17.46	0.0557
Middle		3	1	22.83	0.1919	17.66	0.0583
Highest		3	1	22.47	0.1766	17.30	0.0537
Lowest	16QAM	3	1	21.47	0.1403	16.30	0.0427
Middle		3	1	21.87	0.1538	16.70	0.0468
Highest		3	1	21.55	0.1429	16.38	0.0435
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.87	0.1936	17.70	0.0589
Middle		1	0	22.87	0.1936	17.70	0.0589
Highest		1	0	22.68	0.1854	17.51	0.0564
Lowest	16QAM	1	0	21.90	0.1549	16.73	0.0471
Middle		1	0	22.06	0.1607	16.89	0.0489
Highest		1	0	21.85	0.1531	16.68	0.0466
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.82	0.1914	17.65	0.0582
Middle		1	0	22.94	0.1968	17.77	0.0598
Highest		1	0	22.59	0.1816	17.42	0.0552
Lowest	16QAM	1	24	22.04	0.1600	16.87	0.0486
Middle		1	24	21.96	0.1570	16.79	0.0478
Highest		1	24	21.82	0.1521	16.65	0.0462
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.83	0.1919	17.66	0.0583
Middle		1	0	22.92	0.1959	17.75	0.0596
Highest		1	0	22.75	0.1884	17.58	0.0573
Lowest	16QAM	1	0	21.92	0.1556	16.75	0.0473
Middle		1	0	22.02	0.1592	16.85	0.0484
Highest		1	0	21.82	0.1521	16.65	0.0462
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.80	0.1905	17.63	0.0579
Middle		1	0	22.97	0.1982	17.80	0.0603
Highest		1	0	22.59	0.1816	17.42	0.0552
Lowest	16QAM	1	74	22.04	0.1600	16.87	0.0486
Middle		1	74	21.83	0.1524	16.66	0.0463
Highest		1	74	21.79	0.1510	16.62	0.0459
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = -5.17 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.93	0.1963	17.76	0.0597
Middle		1	0	23.05	0.2018	17.88	0.0614
Highest		1	0	22.73	0.1875	17.56	0.0570
Lowest	16QAM	1	0	21.99	0.1581	16.82	0.0481
Middle		1	0	22.05	0.1603	16.88	0.0488
Highest		1	0	21.71	0.1483	16.54	0.0451
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.35	0.1718	17.66	0.0583
Middle		1	0	22.43	0.1750	17.74	0.0594
Highest		1	0	22.97	0.1982	18.28	0.0673
Lowest	16QAM	1	5	21.16	0.1306	16.47	0.0444
Middle		1	5	21.77	0.1503	17.08	0.0511
Highest		1	5	22.02	0.1592	17.33	0.0541
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.81	0.1910	18.12	0.0649
Middle		1	0	22.99	0.1991	18.30	0.0676
Highest		1	0	22.71	0.1866	18.02	0.0634
Lowest	16QAM	1	14	21.84	0.1528	17.15	0.0519
Middle		1	14	21.49	0.1409	16.80	0.0479
Highest		1	14	22.17	0.1648	17.48	0.0560
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.63	0.1832	17.94	0.0622
Middle		1	0	22.81	0.1910	18.12	0.0649
Highest		1	0	22.86	0.1932	18.17	0.0656
Lowest	16QAM	1	24	21.82	0.1521	17.13	0.0516
Middle		1	24	21.45	0.1396	16.76	0.0474
Highest		1	24	22.13	0.1633	17.44	0.0555
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.67	0.1849	17.98	0.0628
Middle		1	0	22.80	0.1905	18.11	0.0647
Highest		1	0	22.82	0.1914	18.13	0.0650
Lowest	16QAM	1	49	21.91	0.1552	17.22	0.0527
Middle		1	49	21.38	0.1374	16.69	0.0467
Highest		1	49	22.13	0.1633	17.44	0.0555
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.71	0.1866	18.02	0.0634
Middle		1	0	22.87	0.1936	18.18	0.0658
Highest		1	0	22.67	0.1849	17.98	0.0628
Lowest	16QAM	1	74	21.85	0.1531	17.16	0.0520
Middle		1	74	21.48	0.1406	16.79	0.0478
Highest		1	74	22.15	0.1641	17.46	0.0557
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.73	0.1875	18.04	0.0637
Middle		1	0	22.96	0.1977	18.27	0.0671
Highest		1	0	22.75	0.1884	18.06	0.0640
Lowest	16QAM	1	99	21.82	0.1521	17.13	0.0516
Middle		1	99	21.45	0.1396	16.76	0.0474
Highest		1	99	22.11	0.1626	17.42	0.0552
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -3.61 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.13	0.1633	16.37	0.0434
Middle		1	0	22.24	0.1675	16.48	0.0445
Highest		1	0	22.31	0.1702	16.55	0.0452
Lowest	16QAM	1	5	21.35	0.1365	15.59	0.0362
Middle		1	5	21.48	0.1406	15.72	0.0373
Highest		1	5	21.58	0.1439	15.82	0.0382
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -3.61 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	22.26	0.1683	16.50	0.0447
Middle		1	8	22.37	0.1726	16.61	0.0458
Highest		1	8	22.35	0.1718	16.59	0.0456
Lowest	16QAM	1	14	21.64	0.1459	15.88	0.0387
Middle		1	14	21.42	0.1387	15.66	0.0368
Highest		1	14	21.60	0.1445	15.84	0.0384
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -3.61 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.27	0.1687	16.51	0.0448
Middle		1	0	22.36	0.1722	16.60	0.0457
Highest		1	0	22.29	0.1694	16.53	0.0450
Lowest	16QAM	1	24	21.65	0.1462	15.89	0.0388
Middle		1	24	21.52	0.1419	15.76	0.0377
Highest		1	24	21.60	0.1445	15.84	0.0384
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = -3.61 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.34	0.1714	16.58	0.0455
Middle		1	0	22.39	0.1734	16.63	0.0460
Highest		1	0	22.29	0.1694	16.53	0.0450
Lowest	16QAM	1	49	21.63	0.1455	15.87	0.0386
Middle		1	49	21.57	0.1435	15.81	0.0381
Highest		1	49	21.49	0.1409	15.73	0.0374
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -4.62 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.67	0.1849	18.05	0.0638
Middle		1.00	0.00	22.73	0.1875	18.11	0.0647
Highest		1.00	0.00	22.69	0.1858	18.07	0.0641
Lowest	16QAM	1.00	24.00	21.91	0.1552	17.29	0.0536
Middle		1.00	24.00	21.91	0.1552	17.29	0.0536
Highest		1.00	24.00	22.04	0.1600	17.42	0.0552
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -4.62 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.63	0.1832	18.01	0.0632
Middle		1.00	0.00	22.73	0.1875	18.11	0.0647
Highest		1.00	0.00	22.57	0.1807	17.95	0.0624
Lowest	16QAM	1.00	49	21.88	0.1542	17.26	0.0532
Middle		1.00	49	21.98	0.1578	17.36	0.0545
Highest		1.00	49	21.94	0.1563	17.32	0.0540
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -4.62 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.61	0.1824	17.99	0.0630
Middle		1.00	0.00	22.70	0.1862	18.08	0.0643
Highest		1.00	0.00	22.65	0.1841	18.03	0.0635
Lowest	16QAM	1.00	74.00	21.94	0.1563	17.32	0.0540
Middle		1.00	74.00	21.94	0.1563	17.32	0.0540
Highest		1.00	74.00	22.01	0.1589	17.39	0.0548
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average) (GT - LC = -4.62 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.64	0.1837	18.02	0.0634
Middle		1.00	0.00	22.76	0.1888	18.14	0.0652
Highest		1.00	0.00	22.67	0.1849	18.05	0.0638
Lowest	16QAM	1.00	99.00	21.91	0.1552	17.29	0.0536
Middle		1.00	99.00	21.99	0.1581	17.37	0.0546
Highest		1.00	99.00	21.93	0.1560	17.31	0.0538
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.37	0.1726	14.65	0.0292
Middle		1	0	22.42	0.1746	14.70	0.0295
Highest		1	0	22.46	0.1762	14.74	0.0298
Lowest	16QAM	1	0	21.73	0.1489	14.01	0.0252
Middle		1	0	21.80	0.1514	14.08	0.0256
Highest		1	0	21.60	0.1445	13.88	0.0244
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.46	0.1762	14.74	0.0298
Middle		1	0	22.55	0.1799	14.83	0.0304
Highest		1	0	22.44	0.1754	14.72	0.0296
Lowest	16QAM	1	14	21.64	0.1459	13.92	0.0247
Middle		1	14	21.71	0.1483	13.99	0.0251
Highest		1	14	21.83	0.1524	14.11	0.0258
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.43	0.1750	14.71	0.0296
Middle		1	0	22.54	0.1795	14.82	0.0303
Highest		1	0	22.53	0.1791	14.81	0.0303
Lowest	16QAM	1	0	21.55	0.1429	13.83	0.0242
Middle		1	0	21.62	0.1452	13.90	0.0245
Highest		1	0	21.83	0.1524	14.11	0.0258
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.43	0.1750	14.71	0.0296
Middle		1	0	22.58	0.1811	14.86	0.0306
Highest		1	0	22.39	0.1734	14.67	0.0293
Lowest	16QAM	1	25	21.82	0.1521	14.10	0.0257
Middle		1	25	21.66	0.1466	13.94	0.0248
Highest		1	25	21.72	0.1486	14.00	0.0251
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -5.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	22.50	0.1778	14.64	0.0291
Middle		1	24	22.49	0.1774	14.63	0.0290
Highest		1	24	22.60	0.1820	14.74	0.0298
Lowest	16QAM	1	24	21.88	0.1542	14.02	0.0252
Middle		1	24	21.87	0.1538	14.01	0.0252
Highest		1	24	21.96	0.1570	14.10	0.0257
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -5.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.76	0.1888	14.90	0.0309
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	22.26	0.1683	14.40	0.0275
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	22.37	0.1726	14.65	0.0292
Middle		1	24	22.55	0.1799	14.83	0.0304
Highest		1	24	22.37	0.1726	14.65	0.0292
Lowest	16QAM	1	24	21.93	0.1560	14.21	0.0264
Middle		1	24	21.85	0.1531	14.13	0.0259
Highest		1	24	21.85	0.1531	14.13	0.0259
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -5.57 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.48	0.1770	14.76	0.0299
Middle		1	0	22.65	0.1841	14.93	0.0311
Highest		1	0	22.46	0.1762	14.74	0.0298
Lowest	16QAM	1	49	21.91	0.1552	14.19	0.0262
Middle		1	49	21.90	0.1549	14.18	0.0262
Highest		1	49	21.72	0.1486	14.00	0.0251
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -4.57 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.33	0.1710	17.76	0.0597
Middle		1.00	0.00	22.35	0.1718	17.78	0.0600
Highest		1.00	0.00	22.64	0.1837	18.07	0.0641
Lowest	16QAM	1.00	24.00	21.34	0.1361	16.77	0.0475
Middle		1.00	24.00	21.33	0.1358	16.76	0.0474
Highest		1.00	24.00	21.68	0.1472	17.11	0.0514
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -4.57 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	49	22.29	0.1694	17.72	0.0592
Middle		1.00	49	22.23	0.1671	17.66	0.0583
Highest		1.00	49	22.60	0.1820	18.03	0.0635
Lowest	16QAM	1.00	49	21.39	0.1377	16.82	0.0481
Middle		1.00	49	21.39	0.1377	16.82	0.0481
Highest		1.00	49	21.67	0.1469	17.10	0.0513
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -4.57 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.44	0.1754	17.87	0.0612
Middle		1.00	0.00	22.42	0.1746	17.85	0.0610
Highest		1.00	0.00	22.70	0.1862	18.13	0.0650
Lowest	16QAM	1.00	74.00	21.41	0.1384	16.84	0.0483
Middle		1.00	74.00	21.25	0.1334	16.68	0.0466
Highest		1.00	74.00	21.62	0.1452	17.05	0.0507
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 20MHz (Average) (GT - LC = -4.57 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.40	0.1738	17.83	0.0607
Middle		1.00	0.00	22.45	0.1758	17.88	0.0614
Highest		1.00	0.00	22.71	0.1866	18.14	0.0652
Lowest	16QAM	1.00	99.00	21.38	0.1374	16.81	0.0480
Middle		1.00	99.00	21.36	0.1368	16.79	0.0478
Highest		1.00	99.00	21.60	0.1445	17.03	0.0505
Limit	EIRP < 2W			Result		PASS	



LTE Band 26 / 1.4MHz (Average) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	22.00	0.1585	16.14	0.0411
Middle		1	3	22.33	0.1710	16.47	0.0444
Highest		1	3	22.14	0.1637	16.28	0.0425
Lowest	16QAM	1	0	21.47	0.1403	15.61	0.0364
Middle		1	0	21.53	0.1422	15.67	0.0369
Highest		1	0	21.46	0.1400	15.60	0.0363
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.32	0.1706	16.46	0.0443
Middle		1	0	22.29	0.1694	16.43	0.0440
Highest		1	0	22.32	0.1706	16.46	0.0443
Lowest	16QAM	1	8	21.40	0.1380	15.54	0.0358
Middle		1	8	21.62	0.1452	15.76	0.0377
Highest		1	8	21.38	0.1374	15.52	0.0356
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.26	0.1683	16.40	0.0437
Middle		1	0	22.40	0.1738	16.54	0.0451
Highest		1	0	22.33	0.1710	16.47	0.0444
Lowest	16QAM	1	12	21.53	0.1422	15.67	0.0369
Middle		1	12	21.57	0.1435	15.71	0.0372
Highest		1	12	21.48	0.1406	15.62	0.0365
Limit	ERP < 7W			Result		PASS	



LTE Band 26 / 10MHz (Average) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	22.18	0.1652	16.32	0.0429
Middle		1	49	22.31	0.1702	16.45	0.0442
Highest		1	49	22.39	0.1734	16.53	0.0450
Lowest	16QAM	1	0	21.32	0.1355	15.46	0.0352
Middle		1	0	21.54	0.1426	15.68	0.0370
Highest		1	0	21.59	0.1442	15.73	0.0374
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 15MHz (Average) (GT - LC = -3.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.20	0.1660	16.34	0.0431
Middle		1	0	22.44	0.1754	16.58	0.0455
Highest		1	0	22.36	0.1722	16.50	0.0447
Lowest	16QAM	1	74	21.43	0.1390	15.57	0.0361
Middle		1	74	21.56	0.1432	15.70	0.0372
Highest		1	74	21.50	0.1413	15.64	0.0366
Limit	ERP < 7W			Result		PASS	



LTE Band 38 / 5MHz (Peak) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.46	0.1762	18.36	0.0685
Middle		1.00	0.00	22.46	0.1762	18.36	0.0685
Highest		1.00	0.00	22.53	0.1791	18.43	0.0697
Lowest	16QAM	1.00	24.00	21.52	0.1419	17.42	0.0552
Middle		1.00	24.00	21.59	0.1442	17.49	0.0561
Highest		1.00	24.00	21.54	0.1426	17.44	0.0555
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 10MHz (Peak) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.51	0.1782	18.41	0.0693
Middle		1.00	0.00	22.54	0.1795	18.44	0.0698
Highest		1.00	0.00	22.61	0.1824	18.51	0.0710
Lowest	16QAM	1.00	0.00	21.41	0.1384	17.31	0.0538
Middle		1.00	0.00	21.61	0.1449	17.51	0.0564
Highest		1.00	0.00	21.29	0.1346	17.19	0.0524
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 15MHz (Peak) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.55	0.1799	18.45	0.0700
Middle		1.00	0.00	22.63	0.1832	18.53	0.0713
Highest		1.00	0.00	22.61	0.1824	18.51	0.0710
Lowest	16QAM	1.00	0.00	21.48	0.1406	17.38	0.0547
Middle		1.00	0.00	21.68	0.1472	17.58	0.0573
Highest		1.00	0.00	21.35	0.1365	17.25	0.0531
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 20MHz (Peak) (GT - LC = -4.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1.00	0.00	22.64	0.1837	18.54	0.0714
Middle		1.00	0.00	22.70	0.1862	18.60	0.0724
Highest		1.00	0.00	22.69	0.1858	18.59	0.0723
Lowest	16QAM	1.00	0.00	21.52	0.1419	17.42	0.0552
Middle		1.00	0.00	21.75	0.1496	17.65	0.0582
Highest		1.00	0.00	21.41	0.1384	17.31	0.0538
Limit	EIRP < 2W			Result		PASS	



LTE Band 66 / 1.4MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.51	0.1782	17.82	0.0605
Middle		1	0	22.49	0.1774	17.80	0.0603
Highest		1	0	22.61	0.1824	17.92	0.0619
Lowest	16QAM	1	0	21.52	0.1419	16.83	0.0482
Middle		1	0	21.74	0.1493	17.05	0.0507
Highest		1	0	21.88	0.1542	17.19	0.0524
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.66	0.1845	17.97	0.0627
Middle		1	0	22.73	0.1875	18.04	0.0637
Highest		1	0	22.96	0.1977	18.27	0.0671
Lowest	16QAM	1	0	21.62	0.1452	16.93	0.0493
Middle		1	0	21.86	0.1535	17.17	0.0521
Highest		1	0	22.36	0.1722	17.67	0.0585
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.73	0.1875	18.04	0.0637
Middle		1	0	22.79	0.1901	18.10	0.0646
Highest		1	0	22.97	0.1982	18.28	0.0673
Lowest	16QAM	1	0	21.68	0.1472	16.99	0.0500
Middle		1	0	21.79	0.1510	17.10	0.0513
Highest		1	0	22.38	0.1730	17.69	0.0587
Limit	EIRP < 1W			Result		PASS	



LTE Band 66 / 10MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.71	0.1866	18.02	0.0634
Middle		1	0	22.76	0.1888	18.07	0.0641
Highest		1	0	22.96	0.1977	18.27	0.0671
Lowest	16QAM	1	0	21.70	0.1479	17.01	0.0502
Middle		1	0	21.80	0.1514	17.11	0.0514
Highest		1	0	22.38	0.1730	17.69	0.0587
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 15MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.74	0.1879	18.05	0.0638
Middle		1	0	22.78	0.1897	18.09	0.0644
Highest		1	0	23.00	0.1995	18.31	0.0678
Lowest	16QAM	1	0	21.65	0.1462	16.96	0.0497
Middle		1	0	21.74	0.1493	17.05	0.0507
Highest		1	0	22.39	0.1734	17.70	0.0589
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 20MHz (Average) (GT - LC = -4.69 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.75	0.1884	18.06	0.0640
Middle		1	0	22.85	0.1928	18.16	0.0655
Highest		1	0	23.04	0.2014	18.35	0.0684
Lowest	16QAM	1	0	21.70	0.1479	17.01	0.0502
Middle		1	0	21.85	0.1531	17.16	0.0520
Highest		1	0	22.38	0.1730	17.69	0.0587
Limit	EIRP < 1W			Result		PASS	

**Radiated Spurious Emission****LTE Band 2**

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	3700	-57.81	-13	-44.81	-74.59	-69.6	0.73	12.52	H
	5550	-55.53	-13	-42.53	-76.93	-67.7	1.00	13.17	H
	7400	-53.90	-13	-40.90	-78.28	-63.3	1.18	10.58	H
									H
									H
									H
	3700	-56.71	-13	-43.71	-74.66	-68.5	0.73	12.52	V
	5550	-55.43	-13	-42.43	-76.95	-67.6	1.00	13.17	V
	7400	-54.10	-13	-41.10	-78.35	-63.5	1.18	10.58	V
									V
									V
									V
Middle	3740	-57.30	-13	-44.30	-74.16	-69.1	0.70	12.50	H
	5610	-55.95	-13	-42.95	-76.99	-68.1	0.98	13.13	H
	7480	-53.14	-13	-40.14	-77.62	-62.4	1.18	10.44	H
									H
									H
									H
	3740	-56.40	-13	-43.40	-74.5	-68.2	0.70	12.50	V
	5610	-55.15	-13	-42.15	-76.79	-67.3	0.98	13.13	V
	7480	-52.94	-13	-39.94	-77.82	-62.2	1.18	10.44	V
									V
									V
									V



Highest	3780	-57.09	-13	-44.09	-74.13	-68.9	0.68	12.49	H
	5670	-55.39	-13	-42.39	-76.86	-67.5	0.99	13.10	H
	7560	-53.01	-13	-40.01	-77.56	-62.4	1.18	10.57	H
									H
									H
									H
									H
	3780	-56.19	-13	-43.19	-74.21	-68	0.68	12.49	V
	5670	-55.09	-13	-42.09	-76.96	-67.2	0.99	13.10	V
	7560	-52.81	-13	-39.81	-77.57	-62.2	1.18	10.57	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 / 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	-55.13	-13	-42.13	-72.3	-66.72	0.77	12.36	H
	5130	-55.03	-13	-42.03	-75.62	-66.52	0.97	12.46	H
	10260	-45.13	-13	-32.13	-75.79	-55.34	1.39	11.61	H
									H
									H
									H
									H
	3420	-53.16	-13	-40.16	-70.14	-64.75	0.77	12.36	V
	5130	-54.15	-13	-41.15	-74.91	-65.64	0.97	12.46	V
	10260	-43.87	-13	-30.87	-74.31	-54.08	1.39	11.61	V
									V
									V
									V
									V
Middle	3462	-56.74	-13	-43.74	-73.94	-68.45	0.78	12.49	H
	5196	-55.84	-13	-42.84	-76.53	-67.44	0.99	12.59	H
	10386	-45.75	-13	-32.75	-76.36	-55.71	1.40	11.37	H
									H
									H
									H
									H
	3462	-54.71	-13	-41.71	-72.3	-66.42	0.78	12.49	V
	5196	-54.50	-13	-41.50	-75.35	-66.1	0.99	12.59	V
	10386	-43.87	-13	-30.87	-74.31	-53.83	1.40	11.37	V
									V
									V
									V
									V



Highest	3504	-55.78	-13	-42.78	-73.01	-67.6	0.78	12.60	H
	5256	-56.26	-13	-43.26	-77.14	-67.96	1.01	12.71	H
	7008	-46.79	-13	-33.79	-70.65	-56.91	1.17	11.29	H
	10512	-45.48	-13	-32.48	-76.02	-55.19	1.42	11.13	H
									H
									H
									H
	3504	-52.91	-13	-39.91	-71.11	-64.73	0.78	12.60	V
	5256	-53.59	-13	-40.59	-74.61	-65.29	1.01	12.71	V
	7008	-42.68	-13	-29.68	-66.84	-52.8	1.17	11.29	V
	10512	-44.60	-13	-31.60	-75.02	-54.31	1.42	11.13	V
									V
									V
									V

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

**LTE Band 5**

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	-62.95	-13	-49.95	-72.2	-69.9	0.53	9.63	H
	2472	-60.72	-13	-47.72	-73.83	-68.7	0.65	10.78	H
	3296	-59.02	-13	-46.02	-74.89	-68.1	0.76	11.99	H
									H
									H
									H
									H
	1648	-60.25	-13	-47.25	-69.68	-67.2	0.53	9.63	V
	2472	-60.22	-13	-47.22	-73.75	-68.2	0.65	10.78	V
	3296	-59.02	-13	-46.02	-74.63	-68.1	0.76	11.99	V
									V
									V
									V
									V
Middle	1664	-62.52	-13	-49.52	-72.56	-69.5	0.53	9.66	H
	2496	-60.21	-13	-47.21	-73.41	-68.2	0.65	10.80	H
	3328	-59.13	-13	-46.13	-74.89	-68.3	0.76	12.08	H
									H
									H
									H
									H
	1664	-60.92	-13	-47.92	-70.43	-67.9	0.53	9.66	V
	2496	-59.91	-13	-46.91	-73.62	-67.9	0.65	10.80	V
	3328	-58.93	-13	-45.93	-74.53	-68.1	0.76	12.08	V
									V
									V
									V
									V



Highest	1680	-62.38	-13	-49.38	-72.26	-69.4	0.53	9.70	H
	2520	-60.40	-13	-47.40	-73.82	-68.4	0.66	10.81	H
	3360	-58.74	-13	-45.74	-74.69	-68	0.77	12.18	H
									H
									H
									H
									H
	1680	-60.68	-13	-47.68	-61.09	-67.7	0.53	9.70	V
	2520	-60.30	-13	-47.30	-60.89	-68.3	0.66	10.81	V
	3360	-59.14	-13	-46.14	-60.04	-68.4	0.77	12.18	V
									V
									V
									V
									V

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

**LTE Band 7**

LTE Band 7 / 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	5000	-56.24	-25	-31.24	-76.36	-67.5	0.94	12.20	H
	7500	-54.08	-25	-29.08	-78.15	-63.3	1.18	10.40	H
	10000	-47.76	-25	-22.76	-78.09	-58.1	1.40	11.73	H
									H
									H
									H
									H
	5000	-56.04	-25	-31.04	-76.2	-67.3	0.94	12.20	V
	7500	-52.88	-25	-27.88	-77.74	-62.1	1.18	10.40	V
	10000	-48.56	-25	-23.56	-78.2	-58.9	1.40	11.73	V
									V
									V
									V
									V
Middle	5052	-56.85	-25	-31.85	-76.68	-68.2	0.95	12.30	H
	7575	-52.87	-25	-27.87	-77.42	-62.3	1.18	10.61	H
	10100	-47.07	-25	-22.07	-63.31	-57.6	1.38	11.91	H
									H
									H
									H
									H
	5052	-55.95	-25	-30.95	-76.58	-67.3	0.95	12.30	V
	7575	-53.07	-25	-28.07	-77.79	-62.5	1.18	10.61	V
	10100	-47.67	-25	-22.67	-77.58	-58.2	1.38	11.91	V
									V
									V
									V
									V



Highest	5100	-56.66	-25	-31.66	-76.83	-68.1	0.96	12.40	H
	7650	-52.66	-25	-27.66	-77.42	-62.3	1.18	10.82	H
	10200	-47.27	-25	-22.27	-77.27	-57.6	1.39	11.72	H
									H
									H
									H
									H
	5100	-56.66	-25	-31.66	-76.73	-68.1	0.96	12.40	V
	7656	-52.55	-25	-27.55	-77.06	-62.2	1.18	10.84	V
	10200	-46.47	-25	-21.47	-77.26	-56.8	1.39	11.72	V
									V
									V
									V
									V

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

**LTE Band 12**

LTE Band 12 / 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	1400	-59.05	-13	-46.05	-69.91	-65.10	0.50	8.70	H
	2096	-55.86	-13	-42.86	-69.05	-63.60	0.59	10.48	H
	2800	-60.67	-13	-47.67	-74.45	-68.80	0.70	10.98	H
									H
									H
									H
									H
	1400	-57.85	-13	-44.85	-68.53	-63.90	0.50	8.70	V
	2096	-55.06	-13	-42.06	-67.73	-62.80	0.59	10.48	V
	2800	-59.97	-13	-46.97	-74.60	-68.10	0.70	10.98	V
									V
									V
									V
									V
Middle	1408	-58.20	-13	-45.20	-69.01	-64.30	0.50	8.75	H
	2112	-56.35	-13	-43.35	-69.95	-64.10	0.59	10.49	H
	2816	-60.27	-13	-47.27	-74.48	-68.40	0.71	10.99	H
									H
									H
									H
									H
	1408	-59.00	-13	-46.00	-69.72	-65.10	0.50	8.75	V
	2112	-57.75	-13	-44.75	-70.97	-65.50	0.59	10.49	V
	2816	-59.77	-13	-46.77	-74.53	-67.90	0.71	10.99	V
									V
									V
									V
									V



Highest	1416	-60.16	-13	-47.16	-70.83	-66.30	0.50	8.80	H
	2120	-55.55	-13	-42.55	-69.20	-63.30	0.59	10.50	H
	2832	-60.06	-13	-47.06	-74.42	-68.20	0.71	11.00	H
									H
									H
									H
									H
	1416	-58.66	-13	-45.66	-69.08	-64.80	0.50	8.80	V
	2120	-55.75	-13	-42.75	-69.17	-63.50	0.59	10.50	V
	2832	-60.26	-13	-47.26	-74.68	-68.40	0.71	11.00	V
									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	-61.90	-42.15	-19.75	-72.29	-68.67	0.51	9.43	H
	2336	-59.92	-13	-46.92	-74.07	-67.82	0.62	10.67	H
	3120	-59.06	-13	-46.06	-74.58	-67.63	0.74	11.46	H
									H
									H
									H
									H
	1560	-62.66	-42.15	-20.51	-72.48	-69.43	0.51	9.43	V
	2336	-59.60	-13	-46.60	-74.27	-67.50	0.62	10.67	V
	3120	-58.67	-13	-45.67	-74.42	-67.24	0.74	11.46	V
									V
									V
									V
									V
Middle	1560	-62.28	-42.15	-20.13	-72.67	-69.05	0.51	9.43	H
	2344	-60.12	-13	-47.12	-74.13	-68.02	0.62	10.68	H
	3128	-59.29	-13	-46.29	-74.82	-67.88	0.74	11.48	H
									H
									H
									H
									H
	1560	-62.58	-42.15	-20.43	-72.40	-69.35	0.51	9.43	V
	2344	-59.28	-13	-46.28	-73.87	-67.18	0.62	10.68	V
	3128	-58.61	-13	-45.61	-74.37	-67.20	0.74	11.48	V
									V
									V
									V
									V



Highest	1568	-62.76	-42.15	-20.61	-72.66	-69.54	0.52	9.45	H
	2352	-59.98	-13	-46.98	-74.00	-67.89	0.63	10.68	H
	3136	-58.93	-13	-45.93	-74.54	-67.54	0.74	11.51	H
									H
									H
									H
									H
	1568	-62.91	-42.15	-20.76	-72.55	-69.69	0.52	9.45	V
	2352	-59.20	-13	-46.20	-73.80	-67.11	0.63	10.68	V
	3136	-58.65	-13	-45.65	-74.54	-67.26	0.74	11.51	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	1560	-62.33	-42.15	-20.18	-72.72	-69.1	0.51	9.43	H
	2344	-60.29	-13	-47.29	-74.3	-68.19	0.62	10.68	H
	3128	-58.88	-13	-45.88	-74.41	-67.47	0.74	11.48	H
									H
									H
									H
									H
	1560	-62.82	-42.15	-20.67	-72.64	-69.59	0.51	9.43	V
	2344	-59.32	-13	-46.32	-73.91	-67.22	0.62	10.68	V
	3128	-58.80	-13	-45.80	-74.56	-67.39	0.74	11.48	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 / 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	-60.73	-13	-47.73	-71.90	-66.83	0.50	8.75	H
	2112	-60.18	-13	-47.18	-73.82	-67.93	0.59	10.49	H
	2816	-60.11	-13	-47.11	-74.53	-68.24	0.71	10.99	H
									H
									H
									H
									H
	1408	-60.46	-13	-47.46	-71.43	-66.56	0.50	8.75	V
	2112	-59.20	-13	-46.20	-72.66	-66.95	0.59	10.49	V
	2816	-59.81	-13	-46.81	-74.61	-67.94	0.71	10.99	V
									V
									V
									V
									V
Middle	1408	-60.64	-13	-47.64	-71.81	-66.74	0.50	8.75	H
	2120	-60.13	-13	-47.13	-73.77	-67.88	0.59	10.50	H
	2824	-59.78	-13	-46.78	-74.20	-67.92	0.71	10.99	H
									H
									H
									H
									H
	1408	-60.91	-13	-47.91	-71.88	-67.01	0.50	8.75	V
	2120	-59.31	-13	-46.31	-72.77	-67.06	0.59	10.50	V
	2824	-59.13	-13	-46.13	-73.93	-67.27	0.71	10.99	V
									V
									V
									V
									V



Highest	1416	-60.78	-13	-47.78	-71.95	-66.92	0.50	8.80	H
	2120	-60.26	-13	-47.26	-73.90	-68.01	0.59	10.50	H
	2824	-59.94	-13	-46.94	-74.36	-68.08	0.71	10.99	H
									H
									H
									H
									H
	1416	-61.06	-13	-48.06	-72.03	-67.20	0.50	8.80	V
	2120	-60.28	-13	-47.28	-73.74	-68.03	0.59	10.50	V
	2824	-58.92	-13	-45.92	-73.72	-67.06	0.71	10.99	V
									V
									V
									V
									V

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

**LTE Band 41**

LTE Band 41 / 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	4992	-55.59	-25	-30.59	-76.05	-66.89	0.90	12.20	H
	7488	-52.63	-25	-27.63	-77.54	-61.87	1.18	10.42	H
	9990	-46.87	-25	-21.87	-77.65	-57.21	1.40	11.73	H
									H
									H
									H
									H
	4992	-55.19	-25	-30.19	-75.82	-66.49	0.90	12.20	V
	7488	-48.41	-25	-23.41	-73.4	-57.65	1.18	10.42	V
	9990	-47.16	-25	-22.16	-77.6	-57.5	1.40	11.73	V
									V
									V
									V
									V
Middle	5184	-56.48	-25	-31.48	-77.17	-68.06	0.99	12.57	H
	7752	-49.82	-25	-24.82	-75.15	-59.74	1.19	11.11	H
	10332	-46.18	-25	-21.18	-76.81	-56.25	1.40	11.47	H
									H
									H
									H
									H
	5184	-55.86	-25	-30.86	-76.71	-67.44	0.99	12.57	V
	7752	-46.13	-25	-21.13	-71.42	-56.05	1.19	11.11	V
	10332	-45.81	-25	-20.81	-76.24	-55.88	1.40	11.47	V
									V
									V
									V
									V



Highest	5340	-53.37	-25	-28.37	-74.45	-65.2	1.05	12.88	H
	8016	-48.24	-25	-23.24	-75.05	-58.84	1.20	11.80	H
	10692	-47.16	-25	-22.16	-77.5	-56.51	1.43	10.79	H
									H
									H
									H
									H
	5340	-52.79	-25	-27.79	-73.98	-64.62	1.05	12.88	V
	8016	-44.78	-25	-19.78	-71.72	-55.38	1.20	11.80	V
	10692	-47.50	-25	-22.50	-77.72	-56.85	1.43	10.79	V
									V
									V
									V
									V

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

**LTE Band 38**

LTE Band 38 / 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	5142	-56.00	-25	-31.00	-76.59	-67.51	0.97	12.48	H
	7716	-50.39	-25	-25.39	-75.68	-60.21	1.19	11.00	H
	10386	-45.79	-25	-20.79	-76.4	-55.75	1.40	11.37	H
									H
									H
									H
									H
	5142	-55.44	-25	-30.44	-76.2	-66.95	0.97	12.48	V
	7716	-46.91	-25	-21.91	-72.1	-56.73	1.19	11.00	V
	10386	-46.17	-25	-21.17	-76.61	-56.13	1.40	11.37	V
									V
									V
									V
									V
Middle	5172	-55.09	-25	-30.09	-75.75	-66.65	0.98	12.54	H
	7758	-48.32	-25	-23.32	-73.65	-58.25	1.19	11.12	H
	10344	-45.84	-25	-20.84	-76.46	-55.89	1.40	11.45	H
									H
									H
									H
									H
	5172	-55.09	-25	-30.09	-75.91	-66.65	0.98	12.54	V
	7758	-45.68	-25	-20.68	-70.97	-55.61	1.19	11.12	V
	10344	-45.66	-25	-20.66	-76.09	-55.71	1.40	11.45	V
									V
									V
									V
									V



Highest	5202	-56.22	-25	-31.22	-76.94	-67.83	0.99	12.60	H
	7806	-48.99	-25	-23.99	-74.48	-59.06	1.19	11.26	H
	10404	-45.81	-25	-20.81	-76.41	-55.74	1.41	11.33	H
									H
									H
									H
									H
	5202	-55.83	-25	-30.83	-76.71	-67.44	0.99	12.60	V
	7806	-46.42	-25	-21.42	-71.93	-56.49	1.19	11.26	V
	10404	-45.94	-25	-20.94	-76.38	-55.87	1.41	11.33	V
									V
									V
									V
									V

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

**LTE Band 26**

LTE Band 26 / 15MHz / 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	-63.05	-13	-50.05	-72.73	-70	0.53	9.63	H
	2472	-60.52	-13	-47.52	-73.83	-68.5	0.65	10.78	H
	3296	-59.32	-13	-46.32	-75.07	-68.4	0.76	11.99	H
									H
									H
									H
									H
	1648	-60.55	-13	-47.55	-69.91	-67.5	0.53	9.63	V
	2472	-60.22	-13	-47.22	-73.88	-68.2	0.65	10.78	V
	3296	-58.22	-13	-45.22	-74.06	-67.3	0.76	11.99	V
									V
									V
									V
									V
Middle	1656	-62.63	-13	-49.63	-72.48	-69.6	0.53	9.64	H
	2488	-60.61	-13	-47.61	-73.92	-68.6	0.65	10.79	H
	3312	-59.07	-13	-46.07	-74.82	-68.2	0.76	12.04	H
									H
									H
									H
									H
	1656	-62.53	-13	-49.53	-71.8	-69.5	0.53	9.64	V
	2488	-60.21	-13	-47.21	-73.78	-68.2	0.65	10.79	V
	3312	-58.47	-13	-45.47	-74.51	-67.6	0.76	12.04	V
									V
									V
									V
									V



Highest	1672	-62.50	-13	-49.50	-72.25	-69.5	0.53	9.68	H
	2504	-60.70	-13	-47.70	-73.86	-68.7	0.66	10.80	H
	3344	-58.88	-13	-45.88	-74.77	-68.1	0.76	12.13	H
									H
									H
									H
									H
	1672	-60.30	-13	-47.30	-69.8	-67.3	0.53	9.68	V
	2504	-61.00	-13	-48.00	-74.24	-69	0.66	10.80	V
	3344	-59.68	-13	-46.68	-75.04	-68.9	0.76	12.13	V
									V
									V
									V
									V

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



LTE Band 26 / 15MHz / 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	-63.05	-13	-50.05	-73.03	-70	0.53	9.63	H
	2472	-55.62	-13	-42.62	-69.03	-63.6	0.65	10.78	H
	3296	-59.22	-13	-46.22	-74.71	-68.3	0.76	11.99	H
									H
									H
									H
									H
	1648	-63.25	-13	-50.25	-72.85	-70.2	0.53	9.63	V
	2472	-54.72	-13	-41.72	-68.65	-62.7	0.65	10.78	V
	3296	-55.12	-13	-42.12	-74.69	-64.2	0.76	11.99	V
									V
									V
									V
									V
Middle	1656	-63.03	-13	-50.03	-72.39	-70	0.53	9.64	H
	2488	-52.11	-13	-39.11	-65.64	-60.1	0.65	10.79	H
	3320	-58.85	-13	-45.85	-74.66	-68	0.76	12.06	H
									H
									H
									H
									H
	1656	-62.23	-13	-49.23	-71.81	-69.2	0.53	9.64	V
	2488	-52.51	-13	-39.51	-66.55	-60.5	0.65	10.79	V
	3320	-58.65	-13	-45.65	-74.36	-67.8	0.76	12.06	V
									V
									V
									V
									V



Highest	1672	-63.20	-13	-50.20	-72.97	-70.2	0.53	9.68	H
	2504	-54.50	-13	-41.50	-67.72	-62.5	0.66	10.80	H
	3336	-58.30	-13	-45.30	-74.61	-67.5	0.76	12.11	H
									H
									H
									H
									H
	1672	-63.10	-13	-50.10	-72.58	-70.1	0.53	9.68	V
	2504	-51.50	-13	-38.50	-65.01	-59.5	0.66	10.80	V
	3336	-58.50	-13	-45.50	-74.19	-67.7	0.76	12.11	V
									V
									V
									V
									V

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

**LTE Band 66**

LTE Band 66 / 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	-56.60	-13	-43.60	-73.77	-68.19	0.77	12.36	H
	5136	-53.84	-13	-40.84	-74.43	-65.34	0.97	12.47	H
	6846	-53.20	-13	-40.20	-76.77	-64.02	0.82	11.64	H
	10270.5	-44.73	-13	-31.73	-75.38	-54.92	1.39	11.59	H
									H
									H
									H
	3420	-54.40	-13	-41.40	-71.38	-65.99	0.77	12.36	V
	5136	-52.71	-13	-39.71	-73.47	-64.21	0.97	12.47	V
	6846	-51.36	-13	-38.36	-76.03	-62.18	0.82	11.64	V
	10270.5	-42.97	-13	-29.97	-73.4	-53.16	1.39	11.59	V
									V
									V
									V
Middle	3472	-57.53	-13	-44.53	-74.77	-69.27	0.78	12.52	H
	5208	-55.68	-13	-42.68	-76.4	-67.30	0.99	12.62	H
	6944	-53.14	-13	-40.14	-76.91	-63.52	1.04	11.42	H
									H
									H
									H
									H
	3472	-56.64	-13	-43.64	-74.55	-68.38	0.78	12.52	V
	5208	-55.46	-13	-42.46	-76.34	-67.08	0.99	12.62	V
	6944	-52.36	-13	-39.36	-76.49	-62.74	1.04	11.42	V
									V
									V
									V
									V



Highest	3522	-56.90	-13	-43.90	-74.06	-68.71	0.78	12.59	H
	5283	-56.03	-13	-43.03	-76.96	-67.77	1.02	12.77	H
	7044	-50.09	-13	-37.09	-74.12	-60.14	1.17	11.22	H
									H
									H
									H
									H
	3522	-55.61	-13	-42.61	-73.76	-67.42	0.78	12.59	V
	5283	-55.80	-13	-42.80	-76.87	-67.54	1.02	12.77	V
	7044	-49.46	-13	-36.46	-73.79	-59.51	1.17	11.22	V
									V
									V
									V
									V

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