



FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00109A
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00109A
Applicant : LC Future Center Limited Taiwan Branch
7F., No. 780, Bei'an Rd., Zhongshan Dist.,
Taipei City 104, Taiwan (R.O.C.)
Manufacturer : LC Future Center Limited Taiwan Branch
7F., No. 780, Bei'an Rd., Zhongshan Dist.,
Taipei City 104, Taiwan (R.O.C.)
Standard : 47 CFR Part 2, 22(H), 24(E), 27

Equipment: Fibocom L860-GL and Intel 9560D2W tested inside of Lenovo Notebook.

The product was received on Mar. 13, 2019 and testing was started from Mar. 23, 2019 and completed on Mar. 28, 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
FG931312B	01	Initial issue of report	May 02, 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 25) (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 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 1.67 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: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00109A
FCC ID	2AJN7-TP00109A
Sample 1	EUT with Amphenol Antenna
Sample 2	EUT with SPEEDWIRE Antenna
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL and Intel 9560D2W tested inside of Lenovo Notebook.
3. All test items were performed with Sample 2.

Antenna Information				
WWAN				3G<E (dBi)
Antenna 1	Manufacturer	Amphenol	Peak gain	1.12
	Part number	LXA113-16-000-C	Type	PIFA
Antenna 2	Manufacturer	SPEEDWIRE	Peak gain	1.63
	Part number	F.0G.ZV-0009-001-00	Type	PIFA

1.2 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 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 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 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz ~ 2199.3 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 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.74 dBm LTE Band 4 : 22.85 dBm LTE Band 5 : 23.70 dBm LTE Band 7 : 23.15 dBm LTE Band 12 : 22.73 dBm LTE Band 13 : 22.53 dBm LTE Band 17 : 22.73 dBm LTE Band 25 : 22.82 dBm LTE Band 26 : 23.62 dBm LTE Band 38 : 22.61 dBm LTE Band 41 : 23.70 dBm LTE Band 66 : 23.18 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 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	Lemon
Temperature	23°C
Relative Humidity	58%

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. 03CH12-HY
Test Engineer	Jack Cheng , Lance Chiang ,Chuan Chu
Temperature	23~24°C
Relative Humidity	63~66%

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

FCC Designation No.: TW1190 and TW0007

1.5 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), 27
- ♦ 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

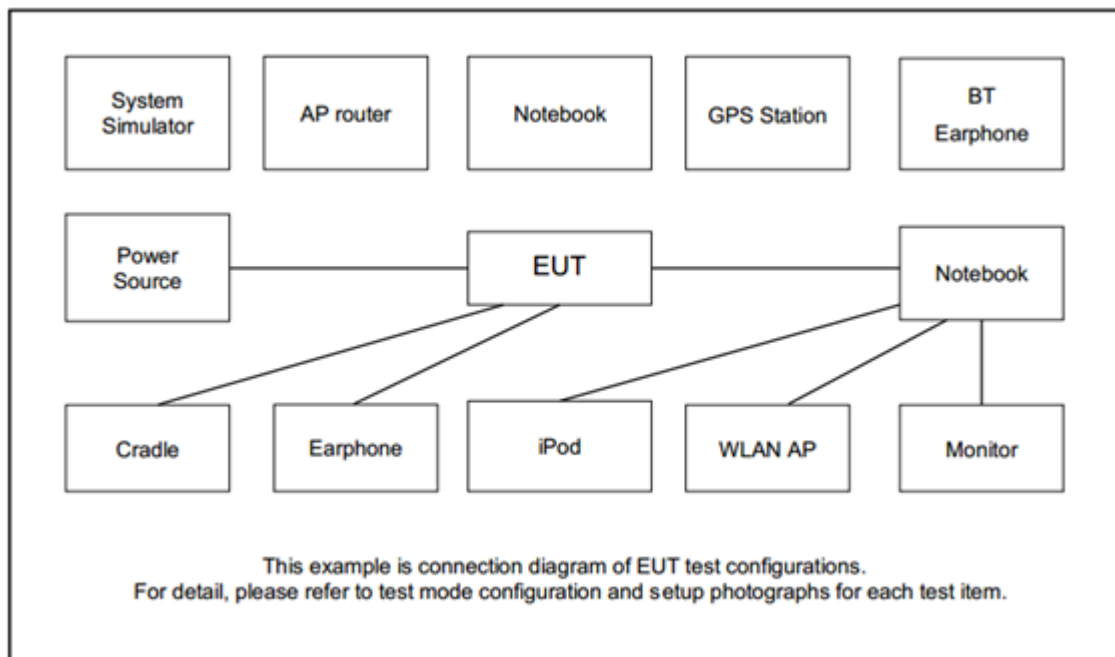
Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	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	v
	5	v	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	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	v	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	v
	26	v	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	v
	41	-	-	v	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	v
E.R.PE.I.R. P	2	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
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	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
	25	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. 4. All the radiated test cases were performed with Adapter 3.															

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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

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

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

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

LTE Band 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 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

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

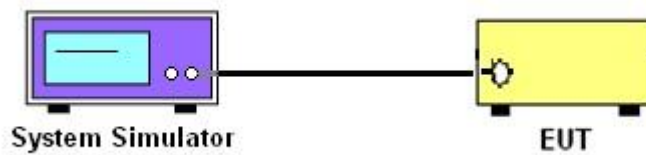
3 Conducted Test Items

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 25 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.

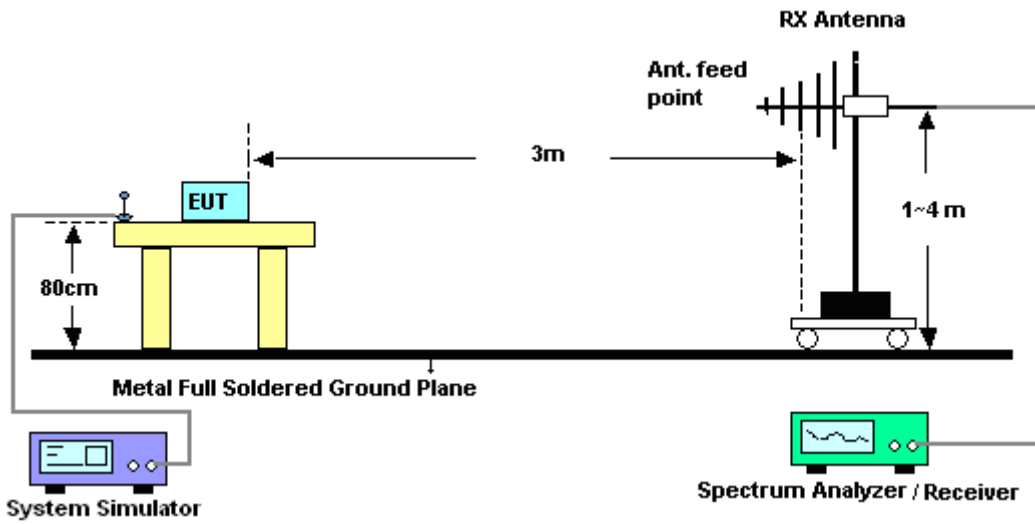
4 Radiated Test Items

4.1 Measuring Instruments

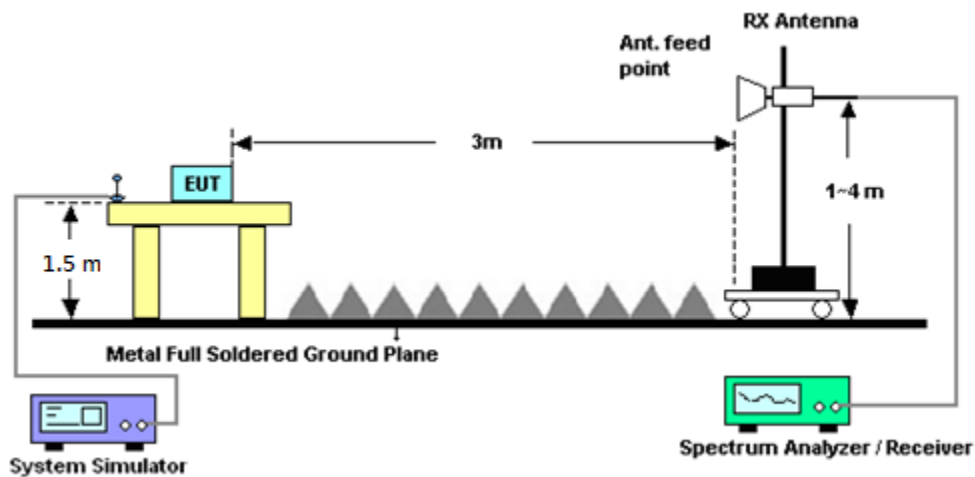
See list of measuring instruments of this test report.

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)

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

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

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	-	Oct. 14, 2018	Mar. 28, 2019	Oct. 13, 2019	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Mar. 23, 2019~ Mar. 28, 2019	Jan. 06, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Mar. 23, 2019~ Mar. 28, 2019	Oct. 12, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 19, 2018	Mar. 23, 2019~ Mar. 28, 2019	Oct. 18, 2019	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 21, 2018	Mar. 23, 2019~ Mar. 28, 2019	May 20, 2019	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	1710001800054002	1GHz~18GHz	Apr. 17, 2018	Mar. 23, 2019~ Mar. 28, 2019	Apr. 16, 2019	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Mar. 23, 2019~ Mar. 28, 2019	Dec. 05, 2019	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 26, 2018	Mar. 23, 2019~ Mar. 28, 2019	Dec. 25, 2019	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 21, 2018	Mar. 23, 2019~ Mar. 28, 2019	May 20, 2019	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP161243	N/A	May 12, 2018	Mar. 23, 2019~ Mar. 28, 2019	May 11, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WLK4-1000-1530-6000-40SS	SN11	1 GHz Lowpass	Sep. 16, 2018	Mar. 23, 2019~ Mar. 28, 2019	Sep. 15, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080-1200-1500-60SS	SN2	1.2G High Pass	Sep. 16, 2018	Mar. 23, 2019~ Mar. 28, 2019	Sep. 15, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN3	3GHz High Pass	Jul. 05, 2018	Mar. 23, 2019~ Mar. 28, 2019	Jul. 04, 2019	Radiation (03CH12-HY)
Filter	Woken	WHKX8-5272.5-6750-18000-40ST	SN2	6.75G Highpass	Sep. 17, 2018	Mar. 23, 2019~ Mar. 28, 2019	Sep.16, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 13, 2019	Mar. 23, 2019~ Mar. 28, 2019	Mar. 12, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Mar. 23, 2019~ Mar. 28, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Mar. 23, 2019~ Mar. 28, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 23, 2019~ Mar. 28, 2019	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 23, 2019~ Mar. 28, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 23, 2019~ Mar. 28, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 23, 2019~ Mar. 28, 2019	N/A	Radiation (03CH12-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.36
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.70
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.98
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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	22.53	22.74	22.64
20	1	49		22.55	22.65	22.65
20	1	99		22.37	22.65	22.46
20	50	0		21.60	21.62	21.43
20	50	24		21.51	21.54	21.47
20	50	50		21.43	21.51	21.71
20	100	0		21.57	21.54	21.60
20	1	0	16-QAM	21.98	21.67	21.95
20	1	49		21.93	21.36	21.58
20	1	99		21.72	21.73	21.69
20	50	0		20.64	20.63	20.54
20	50	24		20.47	20.66	20.58
20	50	50		20.53	20.53	20.67
20	100	0		20.60	20.62	20.62
20	1	0	64-QAM	20.83	20.84	20.63
20	1	49		20.55	20.58	20.83
20	1	99		20.52	20.94	20.71
20	50	0		19.74	19.65	19.52
20	50	24		19.62	19.65	19.58
20	50	50		19.47	19.59	19.60
20	100	0		19.61	19.59	19.60
15	1	0	QPSK	22.43	22.62	22.58
15	1	37		22.38	22.73	22.58
15	1	74		22.29	22.60	22.41
15	36	0		21.53	21.55	21.40
15	36	20		21.46	21.50	21.46
15	36	39		21.35	21.51	21.63
15	75	0		21.49	21.54	21.56
15	1	0	16-QAM	21.92	21.57	21.95
15	1	37		22.00	21.31	21.58
15	1	74		21.70	21.68	21.66
15	36	0		20.64	20.55	20.50
15	36	20		20.40	20.65	20.50
15	36	39		20.51	20.51	20.66
15	75	0		20.54	20.56	20.56
15	1	0	64-QAM	20.83	20.83	20.59
15	1	37		20.51	20.50	20.74
15	1	74		20.47	20.84	20.66
15	36	0		19.69	19.59	19.51
15	36	20		19.61	19.62	19.55
15	36	39		19.44	19.58	19.60
15	75	0		19.57	19.58	19.54



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.41	22.60	22.56
10	1	25		22.27	22.65	22.51
10	1	49		22.23	22.50	22.33
10	25	0		21.54	21.56	21.36
10	25	12		21.49	21.41	21.45
10	25	25		21.37	21.41	21.55
10	50	0		21.44	21.43	21.55
10	1	0	16-QAM	21.88	21.57	21.89
10	1	25		21.98	21.31	21.40
10	1	49		21.54	21.67	21.55
10	25	0		20.60	20.56	20.42
10	25	12		20.37	20.52	20.49
10	25	25		20.47	20.45	20.53
10	50	0		20.46	20.52	20.55
10	1	0	64-QAM	20.79	20.73	20.56
10	1	25		20.50	20.47	20.73
10	1	49		20.44	20.88	20.64
10	25	0		19.62	19.53	19.47
10	25	12		19.51	19.62	19.40
10	25	25		19.34	19.52	19.42
10	50	0		19.49	19.44	19.53
5	1	0	QPSK	22.44	22.63	22.55
5	1	12		22.29	22.65	22.48
5	1	24		22.24	22.52	22.41
5	12	0		21.45	21.53	21.41
5	12	7		21.43	21.39	21.33
5	12	13		21.27	21.34	21.65
5	25	0		21.46	21.38	21.50
5	1	0	16-QAM	21.96	21.56	21.88
5	1	12		21.87	21.27	21.54
5	1	24		21.64	21.61	21.54
5	12	0		20.60	20.59	20.48
5	12	7		20.29	20.58	20.42
5	12	13		20.40	20.43	20.51
5	25	0		20.50	20.55	20.43
5	1	0	64-QAM	20.78	20.69	20.55
5	1	12		20.50	20.45	20.81
5	1	24		20.35	20.83	20.63
5	12	0		19.66	19.59	19.47
5	12	7		19.56	19.51	19.49
5	12	13		19.37	19.47	19.51
5	25	0		19.52	19.41	19.45



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.36	22.53	22.43
3	1	8		22.21	22.66	22.42
3	1	14		22.28	22.54	22.24
3	8	0		21.44	21.49	21.30
3	8	4		21.38	21.45	21.37
3	8	7		21.32	21.22	21.52
3	15	0		21.47	21.38	21.46
3	1	0	16-QAM	21.92	21.42	21.77
3	1	8		21.89	21.34	21.36
3	1	14		21.63	21.56	21.54
3	8	0		20.48	20.55	20.32
3	8	4		20.29	20.55	20.51
3	8	7		20.41	20.40	20.41
3	15	0		20.51	20.45	20.47
3	1	0	64-QAM	20.65	20.75	20.50
3	1	8		20.35	20.43	20.67
3	1	14		20.35	20.85	20.51
3	8	0		19.58	19.51	19.43
3	8	4		19.53	19.48	19.50
3	8	7		19.35	19.47	19.47
3	15	0		19.43	19.42	19.46
1.4	1	0	QPSK	22.44	22.45	22.49
1.4	1	3		22.22	22.49	22.40
1.4	1	5		22.28	22.46	22.18
1.4	3	0		22.31	22.48	22.12
1.4	3	1		22.25	22.39	22.26
1.4	3	3		22.19	22.24	22.36
1.4	6	0		21.38	21.26	21.39
1.4	1	0	16-QAM	21.77	21.55	21.79
1.4	1	3		21.81	21.25	21.43
1.4	1	5		21.60	21.48	21.43
1.4	3	0		21.41	21.44	21.31
1.4	3	1		21.21	21.41	21.42
1.4	3	3		21.39	21.40	21.59
1.4	6	0		20.47	20.44	20.33
1.4	1	0	64-QAM	20.61	20.55	20.44
1.4	1	3		20.36	20.42	20.74
1.4	1	5		20.23	20.69	20.47
1.4	3	0		20.53	20.37	20.30
1.4	3	1		20.46	20.50	20.41
1.4	3	3		20.28	20.29	20.10
1.4	6	0		19.44	19.50	19.30



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.82	22.58	22.65
20	1	49		22.48	22.50	22.64
20	1	99		22.56	22.38	22.38
20	50	0		21.66	21.50	21.63
20	50	24		21.53	21.48	21.57
20	50	50		21.38	21.45	21.54
20	100	0		21.54	21.46	21.63
20	1	0	16-QAM	21.90	21.96	21.82
20	1	49		21.91	21.67	21.90
20	1	99		21.86	21.71	21.74
20	50	0		20.71	20.50	20.67
20	50	24		20.60	20.55	20.65
20	50	50		20.49	20.48	20.62
20	100	0		20.55	20.53	20.65
20	1	0	64-QAM	20.90	20.95	20.95
20	1	49		20.53	20.15	20.74
20	1	99		20.64	20.59	20.74
20	50	0		19.75	19.62	19.68
20	50	24		19.59	19.60	19.70
20	50	50		19.43	19.55	19.67
20	100	0		19.61	19.54	19.70
15	1	0	QPSK	22.75	22.55	22.27
15	1	37		22.44	22.50	22.63
15	1	74		22.49	22.36	22.32
15	36	0		21.58	21.41	21.59
15	36	20		21.46	21.40	21.48
15	36	39		21.32	21.37	21.48
15	75	0		21.44	21.36	21.54
15	1	0	16-QAM	21.96	21.95	21.74
15	1	37		21.99	21.62	21.95
15	1	74		21.79	21.69	21.74
15	36	0		20.71	20.46	20.60
15	36	20		20.55	20.45	20.56
15	36	39		20.40	20.38	20.57
15	75	0		20.49	20.44	20.64
15	1	0	64-QAM	20.93	20.86	20.85
15	1	37		20.49	20.12	20.73
15	1	74		20.58	20.52	20.66
15	36	0		19.69	19.56	19.63
15	36	20		19.55	19.55	19.64
15	36	39		19.33	19.52	19.57
15	75	0		19.58	19.44	19.70



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.75	22.51	22.25
10	1	25		22.39	22.42	22.58
10	1	49		22.49	22.34	22.25
10	25	0		21.55	21.38	21.54
10	25	12		21.42	21.40	21.39
10	25	25		21.32	21.28	21.42
10	50	0		21.35	21.30	21.48
10	1	0	16-QAM	21.89	21.89	21.69
10	1	25		21.97	21.59	21.85
10	1	49		21.76	21.69	21.64
10	25	0		20.63	20.38	20.56
10	25	12		20.55	20.45	20.51
10	25	25		20.38	20.29	20.57
10	50	0		20.47	20.39	20.59
10	1	0	64-QAM	20.87	20.83	20.77
10	1	25		20.44	20.08	20.69
10	1	49		20.56	20.43	20.66
10	25	0		19.69	19.49	19.56
10	25	12		19.54	19.54	19.63
10	25	25		19.32	19.45	19.55
10	50	0		19.58	19.37	19.70
5	1	0	QPSK	22.65	22.49	22.15
5	1	12		22.34	22.39	22.54
5	1	24		22.49	22.32	22.19
5	12	0		21.49	21.32	21.50
5	12	7		21.41	21.36	21.37
5	12	13		21.22	21.22	21.39
5	25	0		21.25	21.25	21.39
5	1	0	16-QAM	21.98	21.86	21.59
5	1	12		21.97	21.54	21.85
5	1	24		21.72	21.62	21.60
5	12	0		20.63	20.29	20.53
5	12	7		20.51	20.44	20.44
5	12	13		20.33	20.21	20.50
5	25	0		20.43	20.35	20.53
5	1	0	64-QAM	20.86	20.80	20.70
5	1	12		20.42	20.03	20.63
5	1	24		20.50	20.33	20.64
5	12	0		19.62	19.39	19.51
5	12	7		19.47	19.45	19.63
5	12	13		19.26	19.36	19.49
5	25	0		19.48	19.28	19.62



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.65	22.42	22.05
3	1	8		22.31	22.29	22.51
3	1	14		22.44	22.29	22.10
3	8	0		21.40	21.30	21.43
3	8	4		21.39	21.35	21.32
3	8	7		21.12	21.19	21.32
3	15	0		21.22	21.25	21.36
3	1	0	16-QAM	21.98	21.77	21.56
3	1	8		21.94	21.47	21.85
3	1	14		21.62	21.56	21.56
3	8	0		20.53	20.19	20.48
3	8	4		20.42	20.40	20.44
3	8	7		20.23	20.13	20.46
3	15	0		20.36	20.25	20.47
3	1	0	64-QAM	20.91	20.76	20.64
3	1	8		20.39	20.00	20.59
3	1	14		20.48	20.23	20.57
3	8	0		19.62	19.39	19.44
3	8	4		19.42	19.40	19.58
3	8	7		19.19	19.32	19.49
3	15	0		19.39	19.18	19.58
1.4	1	0	QPSK	22.65	22.33	22.46
1.4	1	3		22.30	22.27	22.48
1.4	1	5		22.34	22.24	22.07
1.4	3	0		22.31	22.24	22.34
1.4	3	1		22.33	22.26	22.22
1.4	3	3		22.04	22.14	22.22
1.4	6	0		21.18	21.21	21.26
1.4	1	0	16-QAM	21.98	21.73	21.54
1.4	1	3		21.87	21.39	21.76
1.4	1	5		21.57	21.51	21.50
1.4	3	0		21.48	21.18	21.40
1.4	3	1		21.33	21.37	21.42
1.4	3	3		21.23	21.04	21.30
1.4	6	0		20.27	20.25	20.40
1.4	1	0	64-QAM	20.93	20.68	20.61
1.4	1	3		20.39	20.42	20.49
1.4	1	5		20.38	20.14	20.49
1.4	3	0		20.56	20.32	20.41
1.4	3	1		20.38	20.35	20.49
1.4	3	3		20.12	20.32	20.43
1.4	6	0		19.29	19.14	19.50



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.85	22.79	22.69
20	1	49		22.78	22.64	22.82
20	1	99		22.82	22.77	22.69
20	50	0		21.90	21.77	21.79
20	50	24		21.66	21.73	21.86
20	50	50		21.61	21.64	21.78
20	100	0		21.65	21.77	21.89
20	1	0	16-QAM	21.95	21.58	21.57
20	1	49		21.80	21.73	21.70
20	1	99		21.81	21.85	21.46
20	50	0		20.79	20.87	20.90
20	50	24		20.83	20.90	20.96
20	50	50		20.79	20.81	20.90
20	100	0		20.72	20.95	20.94
20	1	0	64-QAM	20.83	20.98	20.86
20	1	49		20.84	20.97	20.94
20	1	99		20.24	20.70	20.81
20	50	0		19.71	19.82	19.85
20	50	24		19.64	19.83	19.87
20	50	50		19.77	19.77	19.91
20	100	0		19.83	19.79	19.92
15	1	0	QPSK	22.76	22.74	22.67
15	1	37		22.77	22.59	22.74
15	1	74		22.79	22.68	22.62
15	36	0		21.84	21.67	21.71
15	36	20		21.61	21.63	21.81
15	36	39		21.53	21.62	21.69
15	75	0		21.57	21.75	21.86
15	1	0	16-QAM	21.95	21.48	21.47
15	1	37		21.76	21.70	21.69
15	1	74		21.79	21.82	21.38
15	36	0		20.75	20.78	20.87
15	36	20		20.83	20.84	20.94
15	36	39		20.76	20.75	20.88
15	75	0		20.66	20.94	20.86
15	1	0	64-QAM	20.80	20.94	20.81
15	1	37		20.75	20.89	20.92
15	1	74		20.16	20.67	20.73
15	36	0		19.65	19.73	19.77
15	36	20		19.56	19.77	19.87
15	36	39		19.68	19.76	19.91
15	75	0		19.82	19.72	19.85



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.67	22.66	22.57
10	1	25		22.70	22.49	22.73
10	1	49		22.78	22.64	22.55
10	25	0		21.80	21.61	21.63
10	25	12		21.53	21.55	21.81
10	25	25		21.46	21.56	21.69
10	50	0		21.56	21.73	21.81
10	1	0	16-QAM	21.95	21.48	21.42
10	1	25		21.73	21.65	21.68
10	1	49		21.71	21.76	21.33
10	25	0		20.75	20.74	20.87
10	25	12		20.79	20.79	20.89
10	25	25		20.66	20.67	20.84
10	50	0		20.60	20.94	20.84
10	1	0	64-QAM	20.79	20.85	20.74
10	1	25		20.71	20.86	20.89
10	1	49		20.07	20.60	20.70
10	25	0		19.55	19.68	19.67
10	25	12		19.56	19.67	19.83
10	25	25		19.66	19.74	19.82
10	50	0		19.76	19.72	19.76
5	1	0	QPSK	22.60	22.57	22.54
5	1	12		22.66	22.47	22.65
5	1	24		22.76	22.60	22.48
5	12	0		21.72	21.59	21.59
5	12	7		21.46	21.54	21.78
5	12	13		21.38	21.52	21.61
5	25	0		21.54	21.65	21.72
5	1	0	16-QAM	21.86	21.39	21.35
5	1	12		21.69	21.64	21.62
5	1	24		21.69	21.76	21.32
5	12	0		20.70	20.68	20.84
5	12	7		20.79	20.78	20.84
5	12	13		20.59	20.61	20.76
5	25	0		20.53	20.90	20.83
5	1	0	64-QAM	20.73	20.76	20.68
5	1	12		20.69	20.81	20.86
5	1	24		20.07	20.53	20.64
5	12	0		19.51	19.64	19.66
5	12	7		19.54	19.65	19.77
5	12	13		19.59	19.65	19.81
5	25	0		19.76	19.69	19.76



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.55	22.61	22.53
3	1	8		22.53	22.55	22.58
3	1	14		22.62	22.67	22.42
3	8	0		21.68	21.65	21.52
3	8	4		21.48	21.53	21.75
3	8	7		21.27	21.48	21.67
3	15	0		21.55	21.50	21.65
3	1	0	16-QAM	21.73	21.42	21.45
3	1	8		21.61	21.48	21.41
3	1	14		21.66	21.71	21.17
3	8	0		20.67	20.61	20.62
3	8	4		20.74	20.80	20.77
3	8	7		20.62	20.58	20.60
3	15	0		20.51	20.75	20.77
3	1	0	64-QAM	20.51	20.84	20.70
3	1	8		20.65	20.81	20.79
3	1	14		20.12	20.53	20.60
3	8	0		19.49	19.56	19.60
3	8	4		19.43	19.62	19.67
3	8	7		19.73	19.66	19.68
3	15	0		19.48	19.56	19.67
1.4	1	0	QPSK	22.83	22.69	22.63
1.4	1	3		22.74	22.43	22.76
1.4	1	5		22.75	22.80	22.58
1.4	3	0		22.78	22.79	22.76
1.4	3	1		22.57	22.62	22.77
1.4	3	3		22.51	22.66	22.71
1.4	6	0		21.58	21.73	21.83
1.4	1	0	16-QAM	21.88	21.45	21.61
1.4	1	3		21.68	21.80	21.62
1.4	1	5		21.77	21.80	21.60
1.4	3	0		21.61	21.74	21.91
1.4	3	1		21.79	21.89	21.74
1.4	3	3		21.49	21.73	21.81
1.4	6	0		21.79	20.82	20.89
1.4	1	0	64-QAM	20.80	20.92	20.90
1.4	1	3		20.72	20.88	20.79
1.4	1	5		20.20	20.63	20.74
1.4	3	0		20.61	20.81	20.87
1.4	3	1		20.58	20.67	20.67
1.4	3	3		20.78	20.66	20.83
1.4	6	0		19.80	19.73	19.79



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.68	23.70	23.67
10	1	25		23.51	23.60	23.54
10	1	49		23.53	23.45	23.67
10	25	0		22.59	22.69	22.52
10	25	12		22.59	22.66	22.64
10	25	25		22.55	22.60	22.58
10	50	0		22.57	22.65	22.59
10	1	0	16-QAM	22.92	22.99	22.83
10	1	25		22.95	22.98	22.70
10	1	49		22.65	22.25	22.98
10	25	0		21.72	21.77	21.56
10	25	12		21.66	21.79	21.70
10	25	25		21.68	21.68	21.68
10	50	0		21.71	21.75	21.62
10	1	0	64-QAM	21.83	21.90	21.89
10	1	25		21.88	21.82	21.91
10	1	49		21.46	21.86	22.04
10	25	0		20.61	20.78	20.84
10	25	12		20.61	20.79	20.82
10	25	25		20.74	20.67	20.92
10	50	0		20.76	20.73	20.88
5	1	0	QPSK	23.53	23.58	23.66
5	1	12		23.51	23.60	23.53
5	1	24		23.50	23.42	23.58
5	12	0		22.57	22.61	22.52
5	12	7		22.57	22.57	22.59
5	12	13		22.55	22.57	22.53
5	25	0		22.57	22.62	22.55
5	1	0	16-QAM	22.90	22.93	22.80
5	1	12		22.91	22.90	22.68
5	1	24		22.59	22.15	22.88
5	12	0		21.62	21.75	21.52
5	12	7		21.65	21.73	21.69
5	12	13		21.60	21.64	21.65
5	25	0		21.68	21.70	21.57
5	1	0	64-QAM	21.81	21.86	21.85
5	1	12		21.79	21.75	21.83
5	1	24		21.39	21.81	21.97
5	12	0		20.60	20.71	20.74
5	12	7		20.52	20.76	20.80
5	12	13		20.72	20.59	20.88
5	25	0		20.69	20.71	20.83



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.46	23.52	23.61
3	1	8		23.47	23.59	23.53
3	1	14		23.43	23.41	23.56
3	8	0		22.51	22.61	22.50
3	8	4		22.47	22.55	22.53
3	8	7		22.50	22.57	22.44
3	15	0		22.56	22.57	22.54
3	1	0	16-QAM	22.86	22.91	22.72
3	1	8		22.83	22.84	22.59
3	1	14		22.54	22.09	22.80
3	8	0		21.57	21.71	21.45
3	8	4		21.58	21.72	21.69
3	8	7		21.57	21.63	21.60
3	15	0		21.66	21.60	21.57
3	1	0	64-QAM	21.75	21.79	21.77
3	1	8		21.75	21.71	21.73
3	1	14		21.29	21.76	21.97
3	8	0		20.57	20.65	20.65
3	8	4		20.46	20.72	20.79
3	8	7		20.62	20.54	20.82
3	15	0		20.68	20.71	20.73
1.4	1	0	QPSK	23.40	23.34	23.53
1.4	1	3		23.36	23.36	23.40
1.4	1	5		23.43	23.18	23.41
1.4	3	0		23.14	23.20	23.14
1.4	3	1		23.07	23.10	23.09
1.4	3	3		23.16	23.10	23.10
1.4	6	0		22.30	22.39	22.43
1.4	1	0	16-QAM	22.68	22.95	22.57
1.4	1	3		22.99	22.81	22.45
1.4	1	5		22.48	22.71	22.77
1.4	3	0		22.04	22.17	22.16
1.4	3	1		22.02	22.14	22.09
1.4	3	3		22.16	22.02	22.04
1.4	6	0		21.52	21.53	21.55
1.4	1	0	64-QAM	21.92	21.94	21.82
1.4	1	3		21.94	22.04	22.02
1.4	1	5		21.31	21.60	21.85
1.4	3	0		21.16	21.20	21.28
1.4	3	1		21.07	21.20	21.27
1.4	3	3		21.10	21.19	21.34
1.4	6	0		20.61	20.59	20.77



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.57	23.01	23.15
20	1	49		22.72	22.78	22.79
20	1	99		23.10	22.65	23.03
20	50	0		21.62	21.78	22.06
20	50	24		21.68	21.72	22.10
20	50	50		21.88	21.60	22.07
20	100	0		21.70	21.72	22.10
20	1	0	16-QAM	22.41	22.39	22.36
20	1	49		22.19	22.34	22.39
20	1	99		22.23	21.87	22.26
20	50	0		20.81	20.91	21.10
20	50	24		20.85	20.89	21.14
20	50	50		21.01	20.71	21.19
20	100	0		20.77	20.87	21.18
20	1	0	64-QAM	20.70	21.34	20.72
20	1	49		20.98	21.43	21.42
20	1	99		21.43	21.15	21.19
20	50	0		19.74	19.89	20.14
20	50	24		19.75	19.89	20.14
20	50	50		19.98	19.74	20.12
20	100	0		19.76	19.86	20.10
15	1	0	QPSK	22.39	22.98	22.97
15	1	37		22.47	22.68	23.08
15	1	74		23.01	22.75	22.94
15	36	0		21.59	21.69	21.99
15	36	20		21.63	21.63	22.01
15	36	39		21.86	21.60	21.97
15	75	0		21.63	21.71	22.08
15	1	0	16-QAM	21.65	22.47	22.36
15	1	37		21.79	22.27	22.47
15	1	74		22.23	21.84	22.20
15	36	0		20.75	20.81	21.01
15	36	20		20.78	20.80	21.12
15	36	39		20.96	20.61	21.17
15	75	0		20.68	20.78	21.08
15	1	0	64-QAM	20.61	21.27	20.68
15	1	37		20.90	21.36	21.33
15	1	74		21.50	21.10	21.13
15	36	0		19.65	19.80	20.07
15	36	20		19.75	19.86	20.06
15	36	39		19.96	19.65	20.12
15	75	0		19.69	19.82	20.07



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.30	22.92	22.91
10	1	25		22.46	22.68	23.06
10	1	49		22.98	22.71	22.88
10	25	0		21.53	21.60	21.99
10	25	12		21.54	21.55	21.92
10	25	25		21.76	21.55	21.90
10	50	0		21.58	21.63	22.01
10	1	0	16-QAM	21.58	22.47	22.26
10	1	25		21.79	22.22	22.46
10	1	49		22.18	21.74	22.18
10	25	0		20.68	20.71	20.98
10	25	12		20.78	20.78	21.05
10	25	25		20.92	20.54	21.15
10	50	0		20.62	20.70	20.99
10	1	0	64-QAM	20.60	21.27	20.59
10	1	25		20.83	21.27	21.31
10	1	49		21.42	21.01	21.08
10	25	0		19.60	19.76	19.98
10	25	12		19.73	19.76	20.01
10	25	25		19.92	19.60	20.10
10	50	0		19.64	19.82	20.07
5	1	0	QPSK	22.20	22.87	22.87
5	1	12		22.44	22.64	22.99
5	1	24		22.98	22.67	22.80
5	12	0		21.50	21.53	21.94
5	12	7		21.50	21.52	21.84
5	12	13		21.76	21.46	21.83
5	25	0		21.52	21.57	21.96
5	1	0	16-QAM	21.48	22.41	22.16
5	1	12		21.72	22.19	22.34
5	1	24		22.13	21.71	22.10
5	12	0		20.62	20.67	20.95
5	12	7		20.70	20.77	20.96
5	12	13		20.90	20.46	21.14
5	25	0		20.58	20.66	20.95
5	1	0	64-QAM	20.55	21.22	20.50
5	1	12		20.81	21.26	21.30
5	1	24		21.41	20.97	21.03
5	12	0		19.52	19.75	19.97
5	12	7		19.67	19.69	19.95
5	12	13		19.88	19.60	20.05
5	25	0		19.60	19.79	20.05



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.72	22.71	22.73
10	1	25		22.71	22.65	22.67
10	1	49		22.54	22.64	22.67
10	25	0		21.58	21.49	21.46
10	25	12		21.59	21.44	21.42
10	25	25		21.52	21.39	21.57
10	50	0		21.66	21.43	21.50
10	1	0	16-QAM	21.66	21.77	21.79
10	1	25		21.92	21.65	21.94
10	1	49		21.85	21.67	21.90
10	25	0		20.53	20.59	20.63
10	25	12		20.65	20.54	20.60
10	25	25		20.56	20.50	20.67
10	50	0		20.56	20.52	20.60
10	1	0	64-QAM	20.90	20.97	20.94
10	1	25		20.91	20.96	20.95
10	1	49		20.97	20.96	20.92
10	25	0		19.77	19.92	19.97
10	25	12		19.78	19.92	19.86
10	25	25		19.99	19.77	19.76
10	50	0		19.79	19.89	19.79
5	1	0	QPSK	22.48	22.42	22.34
5	1	12		22.63	22.31	22.63
5	1	24		22.45	22.54	22.59
5	12	0		21.49	21.40	21.41
5	12	7		21.58	21.44	21.38
5	12	13		21.44	21.29	21.48
5	25	0		21.62	21.36	21.47
5	1	0	16-QAM	21.60	21.68	21.76
5	1	12		21.88	21.60	21.85
5	1	24		21.84	21.58	21.81
5	12	0		20.51	20.58	20.54
5	12	7		20.65	20.50	20.56
5	12	13		20.47	20.44	20.64
5	25	0		20.49	20.47	20.52
5	1	0	64-QAM	20.81	20.95	20.85
5	1	12		20.83	20.90	20.94
5	1	24		20.94	20.92	20.82
5	12	0		19.76	19.87	19.91
5	12	7		19.76	19.88	19.82
5	12	13		19.96	19.74	19.69
5	25	0		19.77	19.85	19.72



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.44	22.40	22.25
3	1	8		22.65	22.29	22.61
3	1	14		22.46	22.57	22.56
3	8	0		21.48	21.39	21.38
3	8	4		21.58	21.39	21.33
3	8	7		21.39	21.25	21.50
3	15	0		21.53	21.34	21.36
3	1	0	16-QAM	21.56	21.68	21.64
3	1	8		21.77	21.50	21.87
3	1	14		21.81	21.51	21.86
3	8	0		20.42	20.50	20.50
3	8	4		20.59	20.44	20.42
3	8	7		20.48	20.45	20.51
3	15	0		20.51	20.49	20.57
3	1	0	64-QAM	20.87	20.85	20.87
3	1	8		20.80	20.87	20.85
3	1	14		20.89	20.82	20.80
3	8	0		19.76	19.75	19.87
3	8	4		19.65	19.82	19.81
3	8	7		19.91	19.73	19.71
3	15	0		19.72	19.74	19.69
1.4	1	0	QPSK	22.56	22.34	22.20
1.4	1	3		22.51	22.19	22.55
1.4	1	5		22.40	22.50	22.55
1.4	3	0		22.43	22.40	22.31
1.4	3	1		22.44	22.34	22.18
1.4	3	3		22.42	22.09	22.37
1.4	6	0		21.44	21.34	21.24
1.4	1	0	16-QAM	21.49	21.65	21.57
1.4	1	3		21.75	21.44	21.88
1.4	1	5		21.60	21.51	21.78
1.4	3	0		21.31	21.50	21.36
1.4	3	1		21.51	21.41	21.49
1.4	3	3		21.43	21.33	21.36
1.4	6	0		20.55	20.41	20.56
1.4	1	0	64-QAM	20.80	20.85	20.80
1.4	1	3		20.71	20.77	20.81
1.4	1	5		20.81	20.76	20.80
1.4	3	0		20.63	20.75	20.71
1.4	3	1		20.68	20.73	20.73
1.4	3	3		20.91	20.63	20.67
1.4	6	0		19.72	19.77	19.65



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	22.53	-
10	1	25			22.51	
10	1	49			22.45	
10	25	0			21.62	
10	25	12			21.53	
10	25	25			21.61	
10	50	0			21.48	
10	1	0	16-QAM		21.98	
10	1	25			21.67	
10	1	49			21.56	
10	25	0			20.77	
10	25	12			20.68	
10	25	25			20.67	
10	50	0			20.64	
10	1	0	64-QAM		20.46	
10	1	25			20.76	
10	1	49			20.64	
10	25	0			19.84	
10	25	12			19.70	
10	25	25			19.81	
10	50	0			19.66	
5	1	0	QPSK	22.47	22.46	22.27
5	1	12		22.38	22.48	22.22
5	1	24		22.47	22.37	22.46
5	12	0		21.50	21.53	21.36
5	12	7		21.57	21.42	21.36
5	12	13		21.44	21.58	21.54
5	25	0		21.66	21.43	21.45
5	1	0	16-QAM	21.60	21.79	21.72
5	1	12		21.82	21.62	21.94
5	1	24		21.77	21.95	21.94
5	12	0		20.48	20.74	20.62
5	12	7		20.58	20.64	20.56
5	12	13		20.47	20.65	20.65
5	25	0		20.46	20.57	20.58
5	1	0	64-QAM	20.94	20.97	20.94
5	1	12		20.94	20.97	20.91
5	1	24		20.94	20.98	20.99
5	12	0		19.76	19.91	19.87
5	12	7		19.72	19.91	19.94
5	12	13		19.92	19.70	19.83
5	25	0		19.71	19.83	19.87



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.60	22.63	22.73
10	1	25		22.44	22.51	22.61
10	1	49		22.53	22.41	22.43
10	25	0		21.38	21.36	21.50
10	25	12		21.49	21.45	21.40
10	25	25		21.54	21.65	21.54
10	50	0		21.39	21.56	21.53
10	1	0	16-QAM	21.79	21.90	21.80
10	1	25		21.62	21.98	21.86
10	1	49		21.81	21.71	21.87
10	25	0		20.44	20.44	20.58
10	25	12		20.60	20.54	20.54
10	25	25		20.66	20.72	20.62
10	50	0		20.42	20.47	20.54
10	1	0	64-QAM	20.68	20.85	20.82
10	1	25		20.98	20.99	20.97
10	1	49		20.91	20.97	20.95
10	25	0		19.63	19.86	19.96
10	25	12		19.73	19.73	19.87
10	25	25		19.89	19.83	19.83
10	50	0		19.95	19.86	19.91
5	1	0	QPSK	22.49	22.44	22.72
5	1	12		22.43	22.45	22.56
5	1	24		22.71	22.41	22.41
5	12	0		21.38	21.28	21.41
5	12	7		21.43	21.35	21.31
5	12	13		21.51	21.61	21.49
5	25	0		21.39	21.50	21.45
5	1	0	16-QAM	21.78	21.83	21.78
5	1	12		21.57	21.95	21.82
5	1	24		21.75	21.61	21.87
5	12	0		20.42	20.40	20.50
5	12	7		20.53	20.49	20.51
5	12	13		20.57	20.68	20.60
5	25	0		20.32	20.40	20.52
5	1	0	64-QAM	20.65	20.76	20.72
5	1	12		20.97	20.97	20.90
5	1	24		20.85	20.92	20.91
5	12	0		19.61	19.80	19.91
5	12	7		19.69	19.69	19.80
5	12	13		19.89	19.78	19.77
5	25	0		19.93	19.79	19.85



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.58	23.62	23.54
15	1	37		23.55	23.51	23.40
15	1	74		23.54	23.41	23.38
15	36	0		22.24	22.28	22.34
15	36	20		22.25	22.25	22.23
15	36	39		22.34	22.34	22.28
15	75	0		22.29	22.33	22.26
15	1	0	16-QAM	22.14	22.46	22.71
15	1	37		22.66	22.17	22.69
15	1	74		22.70	22.73	22.66
15	36	0		21.43	21.28	21.43
15	36	20		21.34	21.32	21.33
15	36	39		21.39	21.35	21.31
15	75	0		21.30	21.32	21.28
15	1	0	64-QAM	21.69	21.63	21.68
15	1	37		21.21	21.13	21.42
15	1	74		21.32	21.27	21.42
15	36	0		20.43	20.30	20.36
15	36	20		20.27	20.28	20.38
15	36	39		20.11	20.23	20.35
15	75	0		20.29	20.22	20.38
10	1	0	QPSK	23.20	23.17	23.38
10	1	25		23.22	23.51	23.25
10	1	49		23.49	23.32	23.31
10	25	0		22.14	22.20	22.27
10	25	12		22.20	22.25	22.23
10	25	25		22.34	22.29	22.25
10	50	0		22.28	22.23	22.23
10	1	0	16-QAM	22.14	22.39	22.44
10	1	25		22.66	22.08	22.74
10	1	49		22.64	22.72	22.56
10	25	0		21.40	21.19	21.43
10	25	12		21.31	21.26	21.28
10	25	25		21.38	21.31	21.27
10	50	0		21.27	21.24	21.20
10	1	0	64-QAM	21.75	21.62	21.70
10	1	25		21.21	21.05	21.34
10	1	49		21.32	21.26	21.34
10	25	0		20.35	20.29	20.35
10	25	12		20.24	20.20	20.30
10	25	25		20.03	20.20	20.29
10	50	0		20.27	20.14	20.28



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.13	23.09	23.33
5	1	12		23.15	23.41	23.25
5	1	24		23.39	23.32	23.27
5	12	0		22.12	22.15	22.21
5	12	7		22.11	22.25	22.15
5	12	13		22.31	22.27	22.17
5	25	0		22.19	22.23	22.13
5	1	0	16-QAM	22.10	22.32	22.74
5	1	12		22.62	22.07	22.65
5	1	24		22.63	22.66	22.50
5	12	0		21.33	21.10	21.33
5	12	7		21.27	21.26	21.28
5	12	13		21.28	21.21	21.22
5	25	0		21.20	21.18	21.12
5	1	0	64-QAM	21.70	21.61	21.69
5	1	12		21.11	21.13	21.31
5	1	24		21.29	21.18	21.24
5	12	0		20.29	20.29	20.32
5	12	7		20.16	20.15	20.30
5	12	13		20.03	20.19	20.22
5	25	0		20.19	20.11	20.20
3	1	0	QPSK	23.06	23.09	23.32
3	1	8		23.09	23.33	23.18
3	1	14		23.30	23.30	23.27
3	8	0		22.12	22.13	22.12
3	8	4		22.09	22.20	22.07
3	8	7		22.27	22.26	22.16
3	15	0		22.13	22.14	22.07
3	1	0	16-QAM	22.09	22.24	22.72
3	1	8		22.59	22.09	22.55
3	1	14		22.58	22.66	22.46
3	8	0		21.31	21.06	21.29
3	8	4		21.26	21.19	21.20
3	8	7		21.21	21.18	21.13
3	15	0		21.16	21.13	21.08
3	1	0	64-QAM	21.67	21.57	21.64
3	1	8		21.09	21.00	21.30
3	1	14		21.24	21.11	21.22
3	8	0		20.20	20.23	20.32
3	8	4		20.06	20.06	20.28
3	8	7		19.97	20.13	20.14
3	15	0		20.13	20.05	20.12



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.05	23.08	23.30
1.4	1	3		23.01	23.29	23.17
1.4	1	5		23.25	23.27	23.27
1.4	3	0		23.12	23.11	23.11
1.4	3	1		23.02	23.18	23.01
1.4	3	3		23.19	23.25	23.09
1.4	6	0		22.12	22.14	22.07
1.4	1	0	16-QAM	22.16	22.14	22.71
1.4	1	3		22.57	22.57	22.50
1.4	1	5		22.54	22.67	22.38
1.4	3	0		22.23	22.09	22.21
1.4	3	1		22.20	22.17	22.19
1.4	3	3		22.18	22.09	22.11
1.4	6	0		21.13	21.12	21.04
1.4	1	0	64-QAM	21.58	21.47	21.63
1.4	1	3		21.04	21.06	21.27
1.4	1	5		21.15	21.09	21.18
1.4	3	0		21.12	21.15	21.23
1.4	3	1		21.03	21.01	21.28
1.4	3	3		21.07	21.06	21.13
1.4	6	0		20.13	20.01	20.08



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.48	22.49	22.61
20	1	49		22.51	22.45	22.29
20	1	99		22.53	22.26	22.39
20	50	0		21.49	21.34	21.34
20	50	24		21.51	21.32	21.35
20	50	50		21.41	21.36	21.39
20	100	0		21.53	21.37	21.39
20	1	0	16-QAM	21.66	21.71	21.36
20	1	49		21.56	21.89	21.45
20	1	99		21.84	21.62	21.86
20	50	0		20.48	20.34	20.39
20	50	24		20.46	20.34	20.42
20	50	50		20.46	20.42	20.41
20	100	0		20.51	20.34	20.37
20	1	0	64-QAM	20.82	20.56	20.52
20	1	49		20.68	20.86	20.47
20	1	99		20.89	20.82	20.51
20	50	0		19.54	19.43	19.39
20	50	24		19.55	19.40	19.50
20	50	50		19.56	19.51	19.46
20	100	0		19.53	19.43	19.42
15	1	0	QPSK	22.39	22.36	22.35
15	1	37		22.51	22.40	22.21
15	1	74		22.48	22.32	22.59
15	36	0		21.49	21.25	21.25
15	36	20		21.42	21.30	21.33
15	36	39		21.38	21.34	21.39
15	75	0		21.47	21.29	21.35
15	1	0	16-QAM	21.57	21.65	21.36
15	1	37		21.50	21.84	21.37
15	1	74		21.75	21.58	21.78
15	36	0		20.39	20.34	20.29
15	36	20		20.45	20.28	20.42
15	36	39		20.44	20.38	20.35
15	75	0		20.43	20.24	20.35
15	1	0	64-QAM	20.77	20.50	20.48
15	1	37		20.61	20.86	20.47
15	1	74		20.87	20.74	20.50
15	36	0		19.52	19.42	19.39
15	36	20		19.48	19.38	19.46
15	36	39		19.46	19.49	19.44
15	75	0		19.48	19.33	19.33



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.31	22.27	22.30
10	1	25		22.41	22.33	22.19
10	1	49		22.38	22.28	22.58
10	25	0		21.41	21.24	21.24
10	25	12		21.32	21.22	21.30
10	25	25		21.31	21.29	21.29
10	50	0		21.47	21.22	21.29
10	1	0	16-QAM	21.57	21.58	21.30
10	1	25		21.47	21.74	21.31
10	1	49		21.69	21.48	21.68
10	25	0		20.30	20.34	20.28
10	25	12		20.36	20.25	20.33
10	25	25		20.35	20.32	20.33
10	50	0		20.39	20.22	20.25
10	1	0	64-QAM	20.67	20.44	20.38
10	1	25		20.61	20.79	20.42
10	1	49		20.84	20.64	20.44
10	25	0		19.51	19.41	19.32
10	25	12		19.46	19.31	19.41
10	25	25		19.45	19.43	19.34
10	50	0		19.48	19.31	19.25
5	1	0	QPSK	22.24	22.21	22.29
5	1	12		22.39	22.33	22.12
5	1	24		22.36	22.26	22.50
5	12	0		21.41	21.15	21.14
5	12	7		21.30	21.19	21.20
5	12	13		21.30	21.25	21.22
5	25	0		21.37	21.19	21.24
5	1	0	16-QAM	21.56	21.54	21.27
5	1	12		21.45	21.64	21.22
5	1	24		21.62	21.42	21.59
5	12	0		20.23	20.33	20.19
5	12	7		20.30	20.19	20.31
5	12	13		20.28	20.25	20.29
5	25	0		20.38	20.14	20.17
5	1	0	64-QAM	20.58	20.41	20.37
5	1	12		20.51	20.69	20.39
5	1	24		20.84	20.62	20.36
5	12	0		19.41	19.36	19.23
5	12	7		19.38	19.31	19.37
5	12	13		19.36	19.33	19.33
5	25	0		19.42	19.26	19.20



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.61	23.70	23.46
20	1	49		23.52	23.38	23.40
20	1	99		23.60	23.55	23.42
20	50	0		22.51	22.31	22.28
20	50	24		22.56	22.31	22.27
20	50	50		22.50	22.33	22.31
20	100	0		22.55	22.36	22.32
20	1	0	16-QAM	22.64	22.50	22.29
20	1	49		22.92	22.17	22.71
20	1	99		22.95	22.51	22.35
20	50	0		21.51	21.37	21.30
20	50	24		21.51	21.36	21.34
20	50	50		21.56	21.39	21.39
20	100	0		21.53	21.32	21.31
20	1	0	64-QAM	21.73	21.40	21.58
20	1	49		22.00	21.76	21.33
20	1	99		21.69	21.34	21.68
20	50	0		20.53	20.43	20.38
20	50	24		20.61	20.41	20.37
20	50	50		20.49	20.37	20.44
20	100	0		20.53	20.33	20.38
15	1	0	QPSK	23.51	23.32	23.24
15	1	37		23.46	23.28	23.33
15	1	74		23.64	23.55	23.34
15	36	0		22.44	22.30	22.27
15	36	20		22.47	22.31	22.22
15	36	39		22.48	22.29	22.25
15	75	0		22.46	22.27	22.24
15	1	0	16-QAM	22.55	22.42	22.23
15	1	37		22.92	22.15	22.61
15	1	74		22.98	22.48	22.25
15	36	0		21.45	21.29	21.25
15	36	20		21.50	21.32	21.31
15	36	39		21.55	21.35	21.32
15	75	0		21.44	21.27	21.22
15	1	0	64-QAM	21.64	21.31	21.54
15	1	37		21.99	21.73	21.33
15	1	74		21.62	21.29	21.60
15	36	0		20.44	20.35	20.33
15	36	20		20.58	20.38	20.29
15	36	39		20.49	20.32	20.42
15	75	0		20.48	20.26	20.35



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.46	23.28	23.16
10	1	25		23.44	23.22	23.33
10	1	49		23.57	23.37	23.29
10	25	0		22.47	22.19	22.23
10	25	12		22.46	22.23	22.13
10	25	25		22.42	22.26	22.18
10	50	0		22.44	22.25	22.27
10	1	0	16-QAM	22.55	22.44	22.23
10	1	25		22.83	22.07	22.52
10	1	49		23.01	22.44	22.35
10	25	0		21.46	21.27	21.19
10	25	12		21.38	21.24	21.23
10	25	25		21.40	21.28	21.23
10	50	0		21.38	21.17	21.18
10	1	0	64-QAM	21.69	21.32	21.50
10	1	25		21.93	21.65	21.29
10	1	49		21.59	21.20	21.61
10	25	0		20.39	20.31	20.22
10	25	12		20.52	20.29	20.25
10	25	25		20.31	20.33	20.31
10	50	0		20.42	20.23	20.23
5	1	0	QPSK	23.39	23.24	23.16
5	1	12		23.36	23.25	23.30
5	1	24		23.66	23.39	23.27
5	12	0		22.34	22.03	22.13
5	12	7		22.36	22.17	22.23
5	12	13		22.40	22.22	22.21
5	25	0		22.29	22.19	22.18
5	1	0	16-QAM	22.46	22.36	22.12
5	1	12		22.80	22.08	22.54
5	1	24		23.00	22.30	22.19
5	12	0		21.29	21.19	21.22
5	12	7		21.46	21.16	21.28
5	12	13		21.36	21.21	21.33
5	25	0		21.39	21.10	21.20
5	1	0	64-QAM	21.67	21.23	21.46
5	1	12		21.86	21.50	21.26
5	1	24		21.48	21.28	21.51
5	12	0		20.40	20.31	20.19
5	12	7		20.53	20.24	20.18
5	12	13		20.44	20.24	20.33
5	25	0		20.50	20.22	20.12



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.78	23.18	22.91
20	1	49		22.80	23.14	22.92
20	1	99		22.75	23.05	22.76
20	50	0		21.84	21.87	21.83
20	50	24		21.70	21.95	21.71
20	50	50		21.69	21.86	21.75
20	100	0		21.70	21.96	21.81
20	1	0	16-QAM	22.33	22.15	22.43
20	1	49		21.96	22.50	22.42
20	1	99		22.13	22.04	22.12
20	50	0		20.88	20.91	20.89
20	50	24		20.78	20.95	20.80
20	50	50		20.67	20.92	20.79
20	100	0		20.74	20.94	20.78
20	1	0	64-QAM	20.97	20.85	21.09
20	1	49		21.29	21.33	21.21
20	1	99		21.07	21.17	20.73
20	50	0		19.86	19.97	19.86
20	50	24		19.73	20.00	19.74
20	50	50		19.75	19.99	19.85
20	100	0		19.75	19.99	19.81
15	1	0	QPSK	22.69	23.00	22.85
15	1	37		22.60	23.09	22.66
15	1	74		22.71	23.01	22.69
15	36	0		21.84	21.78	21.80
15	36	20		21.68	21.92	21.61
15	36	39		21.64	21.80	21.72
15	75	0		21.62	21.87	21.78
15	1	0	16-QAM	22.23	22.12	22.36
15	1	37		21.95	22.45	22.34
15	1	74		22.12	21.98	22.04
15	36	0		20.87	20.83	20.87
15	36	20		20.75	20.92	20.72
15	36	39		20.61	20.92	20.78
15	75	0		20.72	20.92	20.78
15	1	0	64-QAM	20.95	20.76	21.00
15	1	37		21.22	21.33	21.14
15	1	74		21.05	21.13	20.69
15	36	0		19.82	19.90	19.81
15	36	20		19.63	19.90	19.69
15	36	39		19.72	19.94	19.78
15	75	0		19.67	19.98	19.75



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.67	22.99	22.82
10	1	25		22.58	22.99	22.56
10	1	49		22.69	23.01	22.59
10	25	0		21.77	21.69	21.70
10	25	12		21.60	21.89	21.56
10	25	25		21.56	21.77	21.64
10	50	0		21.58	21.79	21.68
10	1	0	16-QAM	22.19	22.09	22.49
10	1	25		21.95	22.35	22.30
10	1	49		22.08	21.92	21.94
10	25	0		20.84	20.79	20.81
10	25	12		20.73	20.86	20.67
10	25	25		20.59	20.89	20.72
10	50	0		20.71	20.82	20.69
10	1	0	64-QAM	20.87	20.74	20.92
10	1	25		21.20	21.33	21.13
10	1	49		21.00	21.13	20.61
10	25	0		19.74	19.82	19.78
10	25	12		19.53	19.81	19.61
10	25	25		19.70	19.91	19.71
10	50	0		19.67	19.94	19.67
5	1	0	QPSK	22.65	22.98	22.82
5	1	12		22.49	22.91	22.56
5	1	24		22.60	22.98	22.56
5	12	0		21.75	21.68	21.68
5	12	7		21.57	21.79	21.54
5	12	13		21.47	21.69	21.64
5	25	0		21.50	21.70	21.67
5	1	0	16-QAM	22.18	22.00	22.49
5	1	12		21.93	22.28	22.30
5	1	24		22.01	21.92	21.84
5	12	0		20.74	20.77	20.71
5	12	7		20.64	20.82	20.59
5	12	13		20.51	20.85	20.72
5	25	0		20.71	20.80	20.67
5	1	0	64-QAM	20.85	20.65	20.92
5	1	12		21.20	21.31	21.09
5	1	24		20.99	21.13	20.59
5	12	0		19.73	19.82	19.77
5	12	7		19.45	19.73	19.60
5	12	13		19.60	19.90	19.68
5	25	0		19.58	19.91	19.61



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.62	22.88	22.81
3	1	8		22.45	22.87	22.55
3	1	14		22.52	22.90	22.51
3	8	0		21.72	21.68	21.68
3	8	4		21.56	21.72	21.47
3	8	7		21.39	21.67	21.59
3	15	0		21.44	21.66	21.58
3	1	0	16-QAM	22.12	21.93	22.39
3	1	8		21.83	22.26	22.28
3	1	14		21.92	21.86	21.81
3	8	0		20.70	20.74	20.65
3	8	4		20.58	20.78	20.59
3	8	7		20.45	20.78	20.71
3	15	0		20.61	20.78	20.58
3	1	0	64-QAM	20.75	20.56	20.83
3	1	8		21.18	21.22	21.06
3	1	14		20.90	21.04	20.58
3	8	0		19.64	19.75	19.71
3	8	4		19.41	19.68	19.57
3	8	7		19.53	19.83	19.60
3	15	0		19.53	19.90	19.52
1.4	1	0	QPSK	22.53	22.82	22.71
1.4	1	3		22.43	22.83	22.55
1.4	1	5		22.46	22.88	22.43
1.4	3	0		22.67	22.64	22.60
1.4	3	1		22.55	22.64	22.54
1.4	3	3		22.54	22.60	22.59
1.4	6	0		21.44	21.58	21.50
1.4	1	0	16-QAM	22.09	21.83	22.34
1.4	1	3		21.82	22.25	22.28
1.4	1	5		21.82	21.81	21.77
1.4	3	0		21.61	21.72	21.59
1.4	3	1		21.58	21.73	21.56
1.4	3	3		21.59	21.77	21.62
1.4	6	0		20.53	20.71	20.50
1.4	1	0	64-QAM	20.65	20.47	20.81
1.4	1	3		21.18	21.21	21.06
1.4	1	5		20.83	20.96	20.58
1.4	3	0		20.54	20.66	20.64
1.4	3	1		20.69	20.62	20.57
1.4	3	3		20.51	20.77	20.53
1.4	6	0		19.52	19.83	19.52



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

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.44	0.1754	22.25	0.1679
Middle		1	0	22.45	0.1758	22.26	0.1683
Highest		1	0	22.49	0.1774	22.30	0.1698
Lowest	16QAM	1	3	21.81	0.1517	21.62	0.1452
Middle		1	3	21.25	0.1334	21.06	0.1276
Highest		1	3	21.43	0.1390	21.24	0.1330
Lowest	64QAM	1	3	20.36	0.1086	20.17	0.1040
Middle		1	3	20.42	0.1102	20.23	0.1054
Highest		1	3	20.74	0.1186	20.55	0.1135
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	22.21	0.1663	22.02	0.1592
Middle		1	8	22.66	0.1845	22.47	0.1766
Highest		1	8	22.42	0.1746	22.23	0.1671
Lowest	16QAM	1	0	21.92	0.1556	21.73	0.1489
Middle		1	0	21.42	0.1387	21.23	0.1327
Highest		1	0	21.77	0.1503	21.58	0.1439
Lowest	64QAM	1	14	20.35	0.1084	20.16	0.1038
Middle		1	14	20.85	0.1216	20.66	0.1164
Highest		1	14	20.51	0.1125	20.32	0.1076
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.29	0.1694	22.10	0.1622
Middle		1	12	22.65	0.1841	22.46	0.1762
Highest		1	12	22.48	0.1770	22.29	0.1694
Lowest	16QAM	1	0	21.96	0.1570	21.77	0.1503
Middle		1	0	21.56	0.1432	21.37	0.1371
Highest		1	0	21.88	0.1542	21.69	0.1476
Lowest	64QAM	1	24	20.35	0.1084	20.16	0.1038
Middle		1	24	20.83	0.1211	20.64	0.1159
Highest		1	24	20.63	0.1156	20.44	0.1107
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.27	0.1687	22.08	0.1614
Middle		1	25	22.65	0.1841	22.46	0.1762
Highest		1	25	22.51	0.1782	22.32	0.1706
Lowest	16QAM	1	25	21.98	0.1578	21.79	0.1510
Middle		1	25	21.31	0.1352	21.12	0.1294
Highest		1	25	21.40	0.1380	21.21	0.1321
Lowest	64QAM	1	49	20.44	0.1107	20.25	0.1059
Middle		1	49	20.88	0.1225	20.69	0.1172
Highest		1	49	20.64	0.1159	20.45	0.1109
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.38	0.1730	22.19	0.1656
Middle		1	37	22.73	0.1875	22.54	0.1795
Highest		1	37	22.58	0.1811	22.39	0.1734
Lowest	16QAM	1	37	22.00	0.1585	21.81	0.1517
Middle		1	37	21.31	0.1352	21.12	0.1294
Highest		1	37	21.58	0.1439	21.39	0.1377
Lowest	64QAM	1	74	20.47	0.1114	20.28	0.1067
Middle		1	74	20.84	0.1213	20.65	0.1161
Highest		1	74	20.66	0.1164	20.47	0.1114
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = -0.19 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.53	0.1791	22.34	0.1714
Middle		1	0	22.74	0.1879	22.55	0.1799
Highest		1	0	22.64	0.1837	22.45	0.1758
Lowest	16QAM	1	0	21.98	0.1578	21.79	0.1510
Middle		1	0	21.67	0.1469	21.48	0.1406
Highest		1	0	21.95	0.1567	21.76	0.1500
Lowest	64QAM	1	99	20.52	0.1127	20.33	0.1079
Middle		1	99	20.94	0.1242	20.75	0.1189
Highest		1	99	20.71	0.1178	20.52	0.1127
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 1.4MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.65	0.1841	22.43	0.1750
Middle		1	0	22.33	0.1710	22.11	0.1626
Highest		1	0	22.46	0.1762	22.24	0.1675
Lowest	16QAM	1	0	21.98	0.1578	21.76	0.1500
Middle		1	0	21.73	0.1489	21.51	0.1416
Highest		1	0	21.54	0.1426	21.32	0.1355
Lowest	64QAM	1	0	20.93	0.1239	20.71	0.1178
Middle		1	0	20.68	0.1169	20.46	0.1112
Highest		1	0	20.61	0.1151	20.39	0.1094
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 3MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.65	0.1841	22.43	0.1750
Middle		1	0	22.42	0.1746	22.20	0.1660
Highest		1	0	22.05	0.1603	21.83	0.1524
Lowest	16QAM	1	0	21.98	0.1578	21.76	0.1500
Middle		1	0	21.77	0.1503	21.55	0.1429
Highest		1	0	21.56	0.1432	21.34	0.1361
Lowest	64QAM	1	0	20.91	0.1233	20.69	0.1172
Middle		1	0	20.76	0.1191	20.54	0.1132
Highest		1	0	20.64	0.1159	20.42	0.1102
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 5MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.65	0.1841	22.43	0.1750
Middle		1	0	22.49	0.1774	22.27	0.1687
Highest		1	0	22.15	0.1641	21.93	0.1560
Lowest	16QAM	1	0	21.98	0.1578	21.76	0.1500
Middle		1	0	21.86	0.1535	21.64	0.1459
Highest		1	0	21.59	0.1442	21.37	0.1371
Lowest	64QAM	1	0	20.86	0.1219	20.64	0.1159
Middle		1	0	20.80	0.1202	20.58	0.1143
Highest		1	0	20.70	0.1175	20.48	0.1117
Limit	EIRP < 2W			Result		PASS	



LTE Band 25 / 10MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.75	0.1884	22.53	0.1791
Middle		1	0	22.51	0.1782	22.29	0.1694
Highest		1	0	22.25	0.1679	22.03	0.1596
Lowest	16QAM	1	25	21.97	0.1574	21.75	0.1496
Middle		1	25	21.59	0.1442	21.37	0.1371
Highest		1	25	21.85	0.1531	21.63	0.1455
Lowest	64QAM	1	0	20.87	0.1222	20.65	0.1161
Middle		1	0	20.83	0.1211	20.61	0.1151
Highest		1	0	20.77	0.1194	20.55	0.1135
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 15MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.75	0.1884	22.53	0.1791
Middle		1	0	22.55	0.1799	22.33	0.1710
Highest		1	0	22.27	0.1687	22.05	0.1603
Lowest	16QAM	1	37	21.99	0.1581	21.77	0.1503
Middle		1	37	21.62	0.1452	21.40	0.1380
Highest		1	37	21.95	0.1567	21.73	0.1489
Lowest	64QAM	1	0	20.93	0.1239	20.71	0.1178
Middle		1	0	20.86	0.1219	20.64	0.1159
Highest		1	0	20.85	0.1216	20.63	0.1156
Limit	EIRP < 2W			Result		PASS	

LTE Band 25 / 20MHz (Average) (GT - LC = -0.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.82	0.1914	22.60	0.1820
Middle		1	0	22.58	0.1811	22.36	0.1722
Highest		1	0	22.65	0.1841	22.43	0.1750
Lowest	16QAM	1	0	21.90	0.1549	21.68	0.1472
Middle		1	0	21.96	0.1570	21.74	0.1493
Highest		1	0	21.82	0.1521	21.60	0.1445
Lowest	64QAM	1	0	20.90	0.1230	20.68	0.1169
Middle		1	0	20.95	0.1245	20.73	0.1183
Highest		1	0	20.95	0.1245	20.73	0.1183
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.83	0.1919	24.09	0.2564
Middle		1	0	22.69	0.1858	23.95	0.2483
Highest		1	0	22.63	0.1832	23.89	0.2449
Lowest	16QAM	3	0	21.61	0.1449	22.87	0.1936
Middle		3	0	21.74	0.1493	23.00	0.1995
Highest		3	0	21.91	0.1552	23.17	0.2075
Lowest	64QAM	1	0	20.80	0.1202	22.06	0.1607
Middle		1	0	20.92	0.1236	22.18	0.1652
Highest		1	0	20.90	0.1230	22.16	0.1644
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	22.62	0.1828	23.88	0.2443
Middle		1	14	22.67	0.1849	23.93	0.2472
Highest		1	14	22.42	0.1746	23.68	0.2333
Lowest	16QAM	1	0	21.73	0.1489	22.99	0.1991
Middle		1	0	21.42	0.1387	22.68	0.1854
Highest		1	0	21.45	0.1396	22.71	0.1866
Lowest	64QAM	1	0	20.51	0.1125	21.77	0.1503
Middle		1	0	20.84	0.1213	22.10	0.1622
Highest		1	0	20.70	0.1175	21.96	0.1570
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.76	0.1888	24.02	0.2523
Middle		1	24	22.60	0.1820	23.86	0.2432
Highest		1	24	22.48	0.1770	23.74	0.2366
Lowest	16QAM	1	0	21.86	0.1535	23.12	0.2051
Middle		1	0	21.39	0.1377	22.65	0.1841
Highest		1	0	21.35	0.1365	22.61	0.1824
Lowest	64QAM	1	12	20.69	0.1172	21.95	0.1567
Middle		1	12	20.81	0.1205	22.07	0.1611
Highest		1	12	20.86	0.1219	22.12	0.1629
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.78	0.1897	24.04	0.2535
Middle		1	49	22.64	0.1837	23.90	0.2455
Highest		1	49	22.55	0.1799	23.81	0.2404
Lowest	16QAM	1	0	21.95	0.1567	23.21	0.2094
Middle		1	0	21.48	0.1406	22.74	0.1879
Highest		1	0	21.42	0.1387	22.68	0.1854
Lowest	64QAM	1	25	20.71	0.1178	21.97	0.1574
Middle		1	25	20.86	0.1219	22.12	0.1629
Highest		1	25	20.89	0.1227	22.15	0.1641
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	22.79	0.1901	24.05	0.2541
Middle		1	74	22.68	0.1854	23.94	0.2477
Highest		1	74	22.62	0.1828	23.88	0.2443
Lowest	16QAM	1	0	21.95	0.1567	23.21	0.2094
Middle		1	0	21.48	0.1406	22.74	0.1879
Highest		1	0	21.47	0.1403	22.73	0.1875
Lowest	64QAM	1	0	20.80	0.1202	22.06	0.1607
Middle		1	0	20.94	0.1242	22.20	0.1660
Highest		1	0	20.81	0.1205	22.07	0.1611
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 1.26 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.85	0.1928	24.11	0.2576
Middle		1	0	22.79	0.1901	24.05	0.2541
Highest		1	0	22.69	0.1858	23.95	0.2483
Lowest	16QAM	1	0	21.95	0.1567	23.21	0.2094
Middle		1	0	21.58	0.1439	22.84	0.1923
Highest		1	0	21.57	0.1435	22.83	0.1919
Lowest	64QAM	1	0	20.83	0.1211	22.09	0.1618
Middle		1	0	20.98	0.1253	22.24	0.1675
Highest		1	0	20.86	0.1219	22.12	0.1629
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -1.83 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.40	0.2188	19.42	0.0875
Middle		1	0	23.34	0.2158	19.36	0.0863
Highest		1	0	23.53	0.2254	19.55	0.0902
Lowest	16QAM	1	3	22.99	0.1991	19.01	0.0796
Middle		1	3	22.81	0.1910	18.83	0.0764
Highest		1	3	22.45	0.1758	18.47	0.0703
Lowest	64QAM	1	3	21.94	0.1563	17.96	0.0625
Middle		1	3	22.04	0.1600	18.06	0.0640
Highest		1	3	22.02	0.1592	18.04	0.0637
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -1.83 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.46	0.2218	19.48	0.0887
Middle		1	0	23.52	0.2249	19.54	0.0899
Highest		1	0	23.61	0.2296	19.63	0.0918
Lowest	16QAM	1	0	22.86	0.1932	18.88	0.0773
Middle		1	0	22.91	0.1954	18.93	0.0782
Highest		1	0	22.72	0.1871	18.74	0.0748
Lowest	64QAM	1	14	21.29	0.1346	17.31	0.0538
Middle		1	14	21.76	0.1500	17.78	0.0600
Highest		1	14	21.97	0.1574	17.99	0.0630
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -1.83 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.53	0.2254	19.55	0.0902
Middle		1	0	23.58	0.2280	19.60	0.0912
Highest		1	0	23.66	0.2323	19.68	0.0929
Lowest	16QAM	1	0	22.90	0.1950	18.92	0.0780
Middle		1	0	22.93	0.1963	18.95	0.0785
Highest		1	0	22.80	0.1905	18.82	0.0762
Lowest	64QAM	1	24	21.39	0.1377	17.41	0.0551
Middle		1	24	21.81	0.1517	17.83	0.0607
Highest		1	24	21.97	0.1574	17.99	0.0630
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -1.83 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.68	0.2333	19.70	0.0933
Middle		1	0	23.70	0.2344	19.72	0.0938
Highest		1	0	23.67	0.2328	19.69	0.0931
Lowest	16QAM	1	0	22.92	0.1959	18.94	0.0783
Middle		1	0	22.99	0.1991	19.01	0.0796
Highest		1	0	22.83	0.1919	18.85	0.0767
Lowest	64QAM	1	49	21.46	0.1400	17.48	0.0560
Middle		1	49	21.86	0.1535	17.88	0.0614
Highest		1	49	22.04	0.1600	18.06	0.0640
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.44	0.1754	21.92	0.1556
Middle		1	12	22.64	0.1837	22.12	0.1629
Highest		1	12	22.99	0.1991	22.47	0.1766
Lowest	16QAM	1	0	21.48	0.1406	20.96	0.1247
Middle		1	0	22.41	0.1742	21.89	0.1545
Highest		1	0	22.16	0.1644	21.64	0.1459
Lowest	64QAM	1	24	21.41	0.1384	20.89	0.1227
Middle		1	24	20.97	0.1250	20.45	0.1109
Highest		1	24	21.03	0.1268	20.51	0.1125
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.46	0.1762	21.94	0.1563
Middle		1	25	22.68	0.1854	22.16	0.1644
Highest		1	25	23.06	0.2023	22.54	0.1795
Lowest	16QAM	1	0	21.58	0.1439	21.06	0.1276
Middle		1	0	22.47	0.1766	21.95	0.1567
Highest		1	0	22.26	0.1683	21.74	0.1493
Lowest	64QAM	1	49	21.42	0.1387	20.90	0.1230
Middle		1	49	21.01	0.1262	20.49	0.1119
Highest		1	49	21.08	0.1282	20.56	0.1138
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.47	0.1766	21.95	0.1567
Middle		1	37	22.68	0.1854	22.16	0.1644
Highest		1	37	23.08	0.2032	22.56	0.1803
Lowest	16QAM	1	0	21.65	0.1462	21.13	0.1297
Middle		1	0	22.47	0.1766	21.95	0.1567
Highest		1	0	22.36	0.1722	21.84	0.1528
Lowest	64QAM	1	74	21.50	0.1413	20.98	0.1253
Middle		1	74	21.10	0.1288	20.58	0.1143
Highest		1	74	21.13	0.1297	20.61	0.1151
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.57	0.1807	22.05	0.1603
Middle		1	0	23.01	0.2000	22.49	0.1774
Highest		1	0	23.15	0.2065	22.63	0.1832
Lowest	16QAM	1	0	22.41	0.1742	21.89	0.1545
Middle		1	0	22.39	0.1734	21.87	0.1538
Highest		1	0	22.36	0.1722	21.84	0.1528
Lowest	64QAM	1	49	20.98	0.1253	20.46	0.1112
Middle		1	49	21.43	0.1390	20.91	0.1233
Highest		1	49	21.42	0.1387	20.90	0.1230
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.56	0.1803	19.90	0.0977
Middle		1	0	22.34	0.1714	19.68	0.0929
Highest		1	0	22.20	0.1660	19.54	0.0899
Lowest	16QAM	1	3	21.75	0.1496	19.09	0.0811
Middle		1	3	21.44	0.1393	18.78	0.0755
Highest		1	3	21.88	0.1542	19.22	0.0836
Lowest	64QAM	3	3	20.91	0.1233	18.25	0.0668
Middle		3	3	20.63	0.1156	17.97	0.0627
Highest		3	3	20.67	0.1167	18.01	0.0632
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	22.65	0.1841	19.99	0.0998
Middle		1	8	22.29	0.1694	19.63	0.0918
Highest		1	8	22.61	0.1824	19.95	0.0989
Lowest	16QAM	1	8	21.77	0.1503	19.11	0.0815
Middle		1	8	21.50	0.1413	18.84	0.0766
Highest		1	8	21.87	0.1538	19.21	0.0834
Lowest	64QAM	1	14	20.89	0.1227	18.23	0.0665
Middle		1	14	20.82	0.1208	18.16	0.0655
Highest		1	14	20.80	0.1202	18.14	0.0652
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	22.63	0.1832	19.97	0.0993
Middle		1	12	22.31	0.1702	19.65	0.0923
Highest		1	12	22.63	0.1832	19.97	0.0993
Lowest	16QAM	1	12	21.88	0.1542	19.22	0.0836
Middle		1	12	21.60	0.1445	18.94	0.0783
Highest		1	12	21.85	0.1531	19.19	0.0830
Lowest	64QAM	1	0	20.81	0.1205	18.15	0.0653
Middle		1	0	20.95	0.1245	18.29	0.0675
Highest		1	0	20.85	0.1216	18.19	0.0659
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.72	0.1871	20.06	0.1014
Middle		1	0	22.71	0.1866	20.05	0.1012
Highest		1	0	22.73	0.1875	20.07	0.1016
Lowest	16QAM	1	25	21.92	0.1556	19.26	0.0843
Middle		1	25	21.65	0.1462	18.99	0.0793
Highest		1	25	21.94	0.1563	19.28	0.0847
Lowest	64QAM	1	0	20.90	0.1230	18.24	0.0667
Middle		1	0	20.97	0.1250	18.31	0.0678
Highest		1	0	20.94	0.1242	18.28	0.0673
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = 1.63 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	22.38	0.1730	21.86	0.1535
Middle		1	12	22.48	0.1770	21.96	0.1570
Highest		1	12	22.22	0.1667	21.70	0.1479
Lowest	16QAM	1	24	21.77	0.1503	21.25	0.1334
Middle		1	24	21.95	0.1567	21.43	0.1390
Highest		1	24	21.94	0.1563	21.42	0.1387
Lowest	64QAM	1	24	20.94	0.1242	20.42	0.1102
Middle		1	24	20.98	0.1253	20.46	0.1112
Highest		1	24	20.99	0.1256	20.47	0.1114
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = 1.63 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.53	0.1791	22.01	0.1589
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	21.98	0.1578	21.46	0.1400
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	20.76	0.1191	20.24	0.1057
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.49	0.1774	19.83	0.0962
Middle		1	0	22.44	0.1754	19.78	0.0951
Highest		1	0	22.72	0.1871	20.06	0.1014
Lowest	16QAM	1	12	21.57	0.1435	18.91	0.0778
Middle		1	12	21.95	0.1567	19.29	0.0849
Highest		1	12	21.82	0.1521	19.16	0.0824
Lowest	64QAM	1	12	20.97	0.1250	18.31	0.0678
Middle		1	12	20.97	0.1250	18.31	0.0678
Highest		1	12	20.90	0.1230	18.24	0.0667
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.60	0.1820	19.94	0.0986
Middle		1	0	22.63	0.1832	19.97	0.0993
Highest		1	0	22.73	0.1875	20.07	0.1016
Lowest	16QAM	1	25	21.62	0.1452	18.96	0.0787
Middle		1	25	21.98	0.1578	19.32	0.0855
Highest		1	25	21.86	0.1535	19.20	0.0832
Lowest	64QAM	1	25	20.98	0.1253	18.32	0.0679
Middle		1	25	20.99	0.1256	18.33	0.0681
Highest		1	25	20.97	0.1250	18.31	0.0678
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	23.66	0.2323	23.15	0.2065
Middle		1	24	23.39	0.2183	22.88	0.1941
Highest		1	24	23.27	0.2123	22.76	0.1888
Lowest	16QAM	1	24	23.00	0.1995	22.49	0.1774
Middle		1	24	22.30	0.1698	21.79	0.1510
Highest		1	24	22.19	0.1656	21.68	0.1472
Lowest	64QAM	1	12	21.86	0.1535	21.35	0.1365
Middle		1	12	21.50	0.1413	20.99	0.1256
Highest		1	12	21.26	0.1337	20.75	0.1189
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.57	0.2275	23.06	0.2023
Middle		1	49	23.37	0.2173	22.86	0.1932
Highest		1	49	23.29	0.2133	22.78	0.1897
Lowest	16QAM	1	49	23.01	0.2000	22.50	0.1778
Middle		1	49	22.44	0.1754	21.93	0.1560
Highest		1	49	22.35	0.1718	21.84	0.1528
Lowest	64QAM	1	25	21.93	0.1560	21.42	0.1387
Middle		1	25	21.65	0.1462	21.14	0.1300
Highest		1	25	21.29	0.1346	20.78	0.1197
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.64	0.2312	23.13	0.2056
Middle		1	74	23.55	0.2265	23.04	0.2014
Highest		1	74	23.34	0.2158	22.83	0.1919
Lowest	16QAM	1	74	22.98	0.1986	22.47	0.1766
Middle		1	74	22.48	0.1770	21.97	0.1574
Highest		1	74	22.25	0.1679	21.74	0.1493
Lowest	64QAM	1	37	21.99	0.1581	21.48	0.1406
Middle		1	37	21.73	0.1489	21.22	0.1324
Highest		1	37	21.33	0.1358	20.82	0.1208
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = -0.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.61	0.2296	23.10	0.2042
Middle		1	0	23.70	0.2344	23.19	0.2084
Highest		1	0	23.46	0.2218	22.95	0.1972
Lowest	16QAM	1	99	22.95	0.1972	22.44	0.1754
Middle		1	99	22.51	0.1782	22.00	0.1585
Highest		1	99	22.35	0.1718	21.84	0.1528
Lowest	64QAM	1	49	22.00	0.1585	21.49	0.1409
Middle		1	49	21.76	0.1500	21.25	0.1334
Highest		1	49	21.33	0.1358	20.82	0.1208
Limit	EIRP < 2W			Result		PASS	



LTE Band 26 / 1.4MHz (Average) (GT - LC = -1.45 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.05	0.2018	19.45	0.0881
Middle		1	0	23.08	0.2032	19.48	0.0887
Highest		1	0	23.30	0.2138	19.70	0.0933
Lowest	16QAM	1	0	22.16	0.1644	18.56	0.0718
Middle		1	0	22.14	0.1637	18.54	0.0714
Highest		1	0	22.71	0.1866	19.11	0.0815
Lowest	64QAM	1	0	21.58	0.1439	17.98	0.0628
Middle		1	0	21.47	0.1403	17.87	0.0612
Highest		1	0	21.63	0.1455	18.03	0.0635
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -1.45 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.09	0.2037	19.49	0.0889
Middle		1	8	23.33	0.2153	19.73	0.0940
Highest		1	8	23.18	0.2080	19.58	0.0908
Lowest	16QAM	1	0	22.09	0.1618	18.49	0.0706
Middle		1	0	22.24	0.1675	18.64	0.0731
Highest		1	0	22.72	0.1871	19.12	0.0817
Lowest	64QAM	1	0	21.67	0.1469	18.07	0.0641
Middle		1	0	21.57	0.1435	17.97	0.0627
Highest		1	0	21.64	0.1459	18.04	0.0637
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -1.45 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.15	0.2065	19.55	0.0902
Middle		1	12	23.41	0.2193	19.81	0.0957
Highest		1	12	23.25	0.2113	19.65	0.0923
Lowest	16QAM	1	0	22.10	0.1622	18.50	0.0708
Middle		1	0	22.32	0.1706	18.72	0.0745
Highest		1	0	22.74	0.1879	19.14	0.0820
Lowest	64QAM	1	0	21.70	0.1479	18.10	0.0646
Middle		1	0	21.61	0.1449	18.01	0.0632
Highest		1	0	21.69	0.1476	18.09	0.0644
Limit	ERP < 7W			Result		PASS	



LTE Band 26 / 10MHz (Average) (GT - LC = -1.45 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	23.22	0.2099	19.62	0.0916
Middle		1	25	23.51	0.2244	19.91	0.0979
Highest		1	25	23.25	0.2113	19.65	0.0923
Lowest	16QAM	1	25	22.66	0.1845	19.06	0.0805
Middle		1	25	22.08	0.1614	18.48	0.0705
Highest		1	25	22.74	0.1879	19.14	0.0820
Lowest	64QAM	1	0	21.75	0.1496	18.15	0.0653
Middle		1	0	21.62	0.1452	18.02	0.0634
Highest		1	0	21.70	0.1479	18.10	0.0646
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 15MHz (Average) (GT - LC = -1.45 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.58	0.2280	19.98	0.0995
Middle		1	0	23.62	0.2301	20.02	0.1005
Highest		1	0	23.54	0.2259	19.94	0.0986
Lowest	16QAM	1	74	22.70	0.1862	19.10	0.0813
Middle		1	74	22.73	0.1875	19.13	0.0818
Highest		1	74	22.66	0.1845	19.06	0.0805
Lowest	64QAM	1	0	21.69	0.1476	18.09	0.0644
Middle		1	0	21.63	0.1455	18.03	0.0635
Highest		1	0	21.68	0.1472	18.08	0.0643
Limit	ERP < 7W			Result		PASS	



LTE Band 38 / 5MHz (Peak) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.36	0.1722	21.84	0.1528
Middle		1	24	22.26	0.1683	21.74	0.1493
Highest		1	24	22.50	0.1778	21.98	0.1578
Lowest	16QAM	1	12	21.45	0.1396	20.93	0.1239
Middle		1	12	21.64	0.1459	21.12	0.1294
Highest		1	12	21.22	0.1324	20.70	0.1175
Lowest	64QAM	1	24	20.84	0.1213	20.32	0.1076
Middle		1	24	20.62	0.1153	20.10	0.1023
Highest		1	24	20.36	0.1086	19.84	0.0964
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 10MHz (Peak) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.38	0.1730	21.86	0.1535
Middle		1	49	22.28	0.1690	21.76	0.1500
Highest		1	49	22.58	0.1811	22.06	0.1607
Lowest	16QAM	1	25	21.47	0.1403	20.95	0.1245
Middle		1	25	21.74	0.1493	21.22	0.1324
Highest		1	25	21.31	0.1352	20.79	0.1199
Lowest	64QAM	1	49	20.84	0.1213	20.32	0.1076
Middle		1	49	20.64	0.1159	20.12	0.1028
Highest		1	49	20.44	0.1107	19.92	0.0982
Limit	EIRP < 2W			Result		PASS	

LTE Band 38 / 15MHz (Peak) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	22.48	0.1770	21.96	0.1570
Middle		1	74	22.32	0.1706	21.80	0.1514
Highest		1	74	22.59	0.1816	22.07	0.1611
Lowest	16QAM	1	37	21.50	0.1413	20.98	0.1253
Middle		1	37	21.84	0.1528	21.32	0.1355
Highest		1	37	21.37	0.1371	20.85	0.1216
Lowest	64QAM	1	74	20.87	0.1222	20.35	0.1084
Middle		1	74	20.74	0.1186	20.22	0.1052
Highest		1	74	20.50	0.1122	19.98	0.0995
Limit	EIRP < 2W			Result		PASS	



LTE Band 38 / 20MHz (Peak) (GT - LC = -0.52 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.48	0.1770	21.96	0.1570
Middle		1	0	22.49	0.1774	21.97	0.1574
Highest		1	0	22.61	0.1824	22.09	0.1618
Lowest	16QAM	1	49	21.56	0.1432	21.04	0.1271
Middle		1	49	21.89	0.1545	21.37	0.1371
Highest		1	49	21.45	0.1396	20.93	0.1239
Lowest	64QAM	1	99	20.89	0.1227	20.37	0.1089
Middle		1	99	20.82	0.1208	20.30	0.1072
Highest		1	99	20.51	0.1125	19.99	0.0998
Limit	EIRP < 2W			Result		PASS	



LTE Band 66 / 1.4MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	5	22.46	0.1762	23.68	0.2333
Middle		1	5	22.88	0.1941	24.10	0.2570
Highest		1	5	22.43	0.1750	23.65	0.2317
Lowest	16QAM	1	0	22.09	0.1618	23.31	0.2143
Middle		1	0	21.83	0.1524	23.05	0.2018
Highest		1	0	22.34	0.1714	23.56	0.2270
Lowest	64QAM	1	3	21.18	0.1312	22.40	0.1738
Middle		1	3	21.21	0.1321	22.43	0.1750
Highest		1	3	21.06	0.1276	22.28	0.1690
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	22.52	0.1786	23.74	0.2366
Middle		1	14	22.90	0.1950	24.12	0.2582
Highest		1	14	22.51	0.1782	23.73	0.2360
Lowest	16QAM	1	0	22.12	0.1629	23.34	0.2158
Middle		1	0	21.93	0.1560	23.15	0.2065
Highest		1	0	22.39	0.1734	23.61	0.2296
Lowest	64QAM	1	8	21.18	0.1312	22.40	0.1738
Middle		1	8	21.22	0.1324	22.44	0.1754
Highest		1	8	21.06	0.1276	22.28	0.1690
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.65	0.1841	23.87	0.2438
Middle		1	0	22.98	0.1986	24.20	0.2630
Highest		1	0	22.82	0.1914	24.04	0.2535
Lowest	16QAM	1	0	22.18	0.1652	23.40	0.2188
Middle		1	0	22.00	0.1585	23.22	0.2099
Highest		1	0	22.49	0.1774	23.71	0.2350
Lowest	64QAM	1	12	21.20	0.1318	22.42	0.1746
Middle		1	12	21.31	0.1352	22.53	0.1791
Highest		1	12	21.09	0.1285	22.31	0.1702
Limit	EIRP < 1W			Result		PASS	



LTE Band 66 / 10MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.69	0.1858	23.91	0.2460
Middle		1	49	23.01	0.2000	24.23	0.2649
Highest		1	49	22.59	0.1816	23.81	0.2404
Lowest	16QAM	1	0	22.19	0.1656	23.41	0.2193
Middle		1	0	22.09	0.1618	23.31	0.2143
Highest		1	0	22.49	0.1774	23.71	0.2350
Lowest	64QAM	1	25	21.20	0.1318	22.42	0.1746
Middle		1	25	21.33	0.1358	22.55	0.1799
Highest		1	25	21.13	0.1297	22.35	0.1718
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 15MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.60	0.1820	23.82	0.2410
Middle		1	37	23.09	0.2037	24.31	0.2698
Highest		1	37	22.66	0.1845	23.88	0.2443
Lowest	16QAM	1	37	21.95	0.1567	23.17	0.2075
Middle		1	37	22.45	0.1758	23.67	0.2328
Highest		1	37	22.34	0.1714	23.56	0.2270
Lowest	64QAM	1	37	21.22	0.1324	22.44	0.1754
Middle		1	37	21.33	0.1358	22.55	0.1799
Highest		1	37	21.14	0.1300	22.36	0.1722
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 20MHz (Average) (GT - LC = 1.22 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.78	0.1897	24.00	0.2512
Middle		1	0	23.18	0.2080	24.40	0.2754
Highest		1	0	22.91	0.1954	24.13	0.2588
Lowest	16QAM	1	49	21.96	0.1570	23.18	0.2080
Middle		1	49	22.50	0.1778	23.72	0.2355
Highest		1	49	22.42	0.1746	23.64	0.2312
Lowest	64QAM	1	49	21.29	0.1346	22.51	0.1782
Middle		1	49	21.33	0.1358	22.55	0.1799
Highest		1	49	21.21	0.1321	22.43	0.1750
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	3721	-65.62	-13	-52.62	-59.16	-77.42	0.71	12.51	H
	5576	-62.41	-13	-49.41	-62.13	-74.57	0.99	13.15	H
	7438	-59.90	-13	-46.90	-64.43	-69.23	1.18	10.51	H
									H
									H
									H
	3721	-67.14	-13	-54.14	-60.84	-78.94	0.71	12.51	V
	5576	-61.89	-13	-48.89	-61.19	-74.05	0.99	13.15	V
	7438	-58.15	-13	-45.15	-62.59	-67.48	1.18	10.51	V
									V
									V
									V
Middle	3756	-63.58	-13	-50.58	-57.31	-75.38	0.69	12.50	H
	5639	-46.86	-13	-33.86	-59.67	-58.99	0.98	13.12	H
	7522	-57.04	-13	-44.04	-61.3	-66.32	1.18	10.46	H
									H
									H
									H
	3756	-64.49	-13	-51.49	-58.42	-76.29	0.69	12.50	V
	5639	-60.65	-13	-47.65	-60.06	-72.78	0.98	13.12	V
	7522	-56.41	-13	-43.41	-60.63	-65.69	1.18	10.46	V
									V
									V
									V



Highest	3798	-62.57	-13	-49.57	-56.58	-74.38	0.67	12.48	H
	5702	-58.55	-13	-45.55	-58.72	-70.64	0.99	13.08	H
	7599	-57.07	-13	-44.07	-60.95	-66.57	1.18	10.68	H
									H
									H
									H
									H
	3798	-60.93	-13	-47.93	-55.21	-72.74	0.67	12.48	V
	5702	-60.60	-13	-47.60	-60.18	-72.69	0.99	13.08	V
	7599	-52.42	-13	-39.42	-56.25	-61.92	1.18	10.68	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 / 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	-61.51	-13	-48.51	-52.52	-73.1	0.77	12.36	H
	5135	-57.05	-13	-44.05	-55.67	-68.55	0.97	12.47	H
	8558	-58.90	-13	-45.90	-64.34	-69.52	1.36	11.98	H
									H
									H
									H
									H
	3420	-61.54	-13	-48.54	-52.97	-73.13	0.77	12.36	V
	5135	-56.19	-13	-43.19	-54.56	-67.69	0.97	12.47	V
	8558	-57.88	-13	-44.88	-63.99	-68.5	1.36	11.98	V
									V
									V
									V
									V
Middle	3448	-63.03	-13	-50.03	-54.39	-74.7	0.78	12.44	H
	5170	-56.84	-13	-43.84	-55.45	-68.4	0.98	12.54	H
	8621	-57.16	-13	-44.16	-62.73	-67.84	1.39	12.07	H
									H
									H
									H
									H
	3448	-60.86	-13	-47.86	-52.61	-72.53	0.78	12.44	V
	5170	-57.12	-13	-44.12	-55.52	-68.68	0.98	12.54	V
	8621	-55.58	-13	-42.58	-61.92	-66.26	1.39	12.07	V
									V
									V
									V
									V



Highest	3469	-65.79	-13	-52.79	-57.33	-77.52	0.78	12.51	H
	5205	-54.35	-13	-41.35	-52.96	-65.97	0.99	12.61	H
	8677	-59.15	-13	-46.15	-64.81	-69.91	1.39	12.15	H
									H
									H
									H
									H
	3469	-59.79	-13	-46.79	-51.71	-71.52	0.78	12.51	V
	5205	-56.12	-13	-43.12	-54.57	-67.74	0.99	12.61	V
	8677	-56.69	-13	-43.69	-63.07	-67.45	1.39	12.15	V
									V
									V
									V
									V

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



LTE Band 5

LTE Band 5 / 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	-47.41	-13	-34.41	-57.51	-54.36	0.53	9.63	H
	2472	-50.22	-13	-37.22	-64.54	-58.20	0.65	10.78	H
	3296	-54.80	-13	-41.80	-70.47	-63.88	0.76	11.99	H
									H
									H
									H
									H
	1648	-51.76	-13	-38.76	-61.32	-58.71	0.53	9.63	V
	2472	-50.21	-13	-37.21	-64.71	-58.19	0.65	10.78	V
	3296	-54.57	-13	-41.57	-70.7	-63.65	0.76	11.99	V
									V
									V
									V
									V
Middle	1664	-47.47	-13	-34.47	-57.61	-54.45	0.53	9.66	H
	2496	-47.06	-13	-34.06	-61.36	-55.05	0.65	10.80	H
	3328	-54.63	-13	-41.63	-70.21	-63.80	0.76	12.08	H
									H
									H
									H
									H
	1664	-52.89	-13	-39.89	-62.43	-59.87	0.53	9.66	V
	2496	-48.91	-13	-35.91	-63.43	-56.90	0.65	10.80	V
	3328	-54.72	-13	-41.72	-70.76	-63.89	0.76	12.08	V
									V
									V
									V
									V



Highest	1680	-48.04	-13	-35.04	-58.24	-55.06	0.53	9.70	H
	2520	-49.05	-13	-36.05	-63.34	-57.05	0.66	10.81	H
	3360	-55.13	-13	-42.13	-70.62	-64.39	0.77	12.18	H
									H
									H
									H
									H
	1680	-50.46	-13	-37.46	-60	-57.48	0.53	9.70	V
	2520	-48.71	-13	-35.71	-63.18	-56.71	0.66	10.81	V
	3360	-54.82	-13	-41.82	-70.75	-64.08	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	5020	-43.24	-25	-18.24	-41.88	-54.25	1.62	12.63	H
	7530	-51.36	-25	-26.36	-55.62	-60.47	1.99	11.11	H
	10040	-61.09	-25	-36.09	-65.05	-69.96	2.40	11.27	H
									H
									H
									H
									H
	5020	-40.58	-25	-15.58	-38.79	-51.59	1.62	12.63	V
	7530	-44.99	-25	-19.99	-49.21	-54.10	1.99	11.11	V
	10040	-58.79	-25	-33.79	-63.44	-67.66	2.40	11.27	V
									V
									V
									V
									V
Middle	5070	-48.39	-25	-23.39	-47.02	-59.46	1.63	12.70	H
	7620	-54.99	-25	-29.99	-58.84	-64.11	2.01	11.12	H
	10140	-60.41	-25	-35.41	-64.39	-69.20	2.40	11.19	H
									H
									H
									H
									H
	5070	-42.86	-25	-17.86	-41.13	-53.93	1.63	12.70	V
	7620	-49.80	-25	-24.80	-53.58	-58.92	2.01	11.12	V
	10140	-59.94	-25	-34.94	-64.39	-68.73	2.40	11.19	V
									V
									V
									V
									V



Highest	5120	-50.01	-25	-25.01	-48.63	-61.14	1.64	12.77	H
	5680	-57.13	-25	-32.13	-60.91	-68.70	1.73	13.30	H
	10240	-58.74	-25	-33.74	-62.75	-67.45	2.40	11.11	H
									H
									H
									H
									H
	5120	-43.96	-25	-18.96	-42.3	-55.09	1.64	12.77	V
	5680	-52.60	-25	-27.60	-56.22	-64.17	1.73	13.30	V
	10240	-58.59	-25	-33.59	-62.86	-67.30	2.40	11.11	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	1408	-37.49	-13.00	-24.49	-48.81	-41.97	1.15	7.78	H
	2112	-37.83	-13.00	-24.83	-52.01	-44.49	1.38	10.19	H
	2816	-52.52	-13.00	-39.52	-67.45	-59.67	1.45	10.75	H
									H
									H
									H
									H
	1408	-41.72	-13.00	-28.72	-51.81	-46.20	1.15	7.78	V
	2112	-41.81	-13.00	-28.81	-54.89	-48.47	1.38	10.19	V
	2816	-45.99	-13.00	-32.99	-60.87	-53.14	1.45	10.75	V
									V
									V
									V
									V
Middle	1416	-36.96	-13.00	-23.96	-48.30	-41.47	1.15	7.81	H
	2120	-35.98	-13.00	-22.98	-50.45	-42.65	1.38	10.20	H
	2832	-50.27	-13.00	-37.27	-65.25	-57.43	1.45	10.77	H
									H
									H
									H
									H
	1416	-41.10	-13.00	-28.10	-51.21	-45.61	1.15	7.81	V
	2120	-39.92	-13.00	-26.92	-53.26	-46.59	1.38	10.20	V
	2832	-45.77	-13.00	-32.77	-60.73	-52.93	1.45	10.77	V
									V
									V
									V
									V



Highest	1422	-37.25	-13.00	-24.25	-48.57	-41.79	1.15	7.84	H
	2133	-37.72	-13.00	-24.72	-51.90	-44.40	1.38	10.21	H
	2844	-52.60	-13.00	-39.60	-67.53	-59.77	1.45	10.78	H
									H
									H
									H
									H
	1422	-40.08	-13.00	-27.08	-50.17	-44.62	1.15	7.84	V
	2133	-42.15	-13.00	-29.15	-55.23	-48.83	1.38	10.21	V
	2844	-46.76	-13.00	-33.76	-61.64	-53.93	1.45	10.78	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	-43.82	-42.15	-1.67	-54.02	-49.11	0.89	8.33	H
	2336	-36.69	-13	-23.69	-51.45	-43.90	1.11	10.47	H
	3120	-53.09	-13	-40.09	-68.88	-61.24	1.29	11.59	H
									H
									H
									H
									H
	1560	-46.35	-42.15	-4.20	-55.95	-51.64	0.89	8.33	V
	2336	-41.87	-13	-28.87	-56.26	-49.08	1.11	10.47	V
	3120	-51.44	-13	-38.44	-67.61	-59.59	1.29	11.59	V
									V
									V
									V
									V
Middle	1560	-44.90	-42.15	-2.75	-55.10	-50.19	0.89	8.33	H
	2344	-36.18	-13	-23.18	-50.93	-43.40	1.12	10.48	H
	3128	-53.66	-13	-40.66	-69.46	-61.82	1.29	11.61	H
									H
									H
									H
									H
	1560	-47.29	-42.15	-5.14	-56.89	-52.58	0.89	8.33	V
	2344	-41.00	-13	-28.00	-55.38	-48.22	1.12	10.48	V
	3128	-52.75	-13	-39.75	-68.93	-60.91	1.29	11.61	V
									V
									V
									V
									V



Highest	1568	-44.90	-42.15	-2.75	-55.11	-50.22	0.89	8.36	H
	2352	-36.47	-13	-23.47	-51.10	-43.70	1.12	10.49	H
	3136	-54.06	-13	-41.06	-69.88	-62.24	1.29	11.63	H
									H
									H
									H
									H
	1568	-46.57	-42.15	-4.42	-56.18	-51.89	0.89	8.36	V
	2352	-41.24	-13	-28.24	-55.61	-48.47	1.12	10.49	V
	3136	-52.70	-13	-39.70	-68.93	-60.88	1.29	11.63	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	-44.84	-42.15	-2.69	-55.04	-50.13	0.89	8.33	H
	2344	-36.80	-13	-23.80	-51.55	-44.02	1.12	10.48	H
	3128	-53.49	-13	-40.49	-69.29	-61.65	1.29	11.61	H
									H
									H
									H
									H
	1560	-47.12	-42.15	-4.97	-56.72	-52.41	0.89	8.33	V
	2344	-39.99	-13	-26.99	-54.37	-47.21	1.12	10.48	V
	3128	-52.23	-13	-39.23	-68.41	-60.39	1.29	11.61	V
									V
									V
									V
									V

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

**LTE Band 14**

LTE Band 14 / 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	1584	-45.36	-42.15	-3.21	-55.44	-50.73	0.90	8.42	H
	2376	-36.91	-13	-23.91	-51.40	-44.16	1.12	10.53	H
	3162	-53.76	-13	-40.76	-69.62	-62.00	1.30	11.69	H
									H
									H
									H
									H
	1584	-46.49	-42.15	-4.34	-56.10	-51.86	0.90	8.42	V
	2376	-40.94	-13	-27.94	-55.20	-48.19	1.12	10.53	V
	3162	-53.39	-13	-40.39	-69.69	-61.63	1.30	11.69	V
									V
									V
									V
									V
Middle	1592	-45.64	-42.15	-3.49	-55.57	-51.04	0.90	8.45	H
	2384	-38.29	-13	-25.29	-52.77	-45.55	1.12	10.54	H
	3172	-54.35	-13	-41.35	-70.23	-62.61	1.30	11.71	H
									H
									H
									H
									H
	1592	-46.54	-42.15	-4.39	-56.12	-51.94	0.90	8.45	V
	2384	-41.79	-13	-28.79	-56.12	-49.05	1.12	10.54	V
	3172	-53.96	-13	-40.96	-70.31	-62.22	1.30	11.71	V
									V
									V
									V
									V



Highest	1592	-46.56	-42.15	-4.41	-56.49	-51.96	0.90	8.45	H
	2392	-39.49	-13	-26.49	-53.85	-46.76	1.13	10.55	H
	3182	-54.69	-13	-41.69	-70.57	-62.97	1.30	11.74	H
									H
									H
									H
									H
	1592	-48.27	-42.15	-6.12	-57.85	-53.67	0.90	8.45	V
	2392	-42.41	-13	-29.41	-56.73	-49.68	1.13	10.55	V
	3182	-54.32	-13	-41.32	-70.67	-62.60	1.30	11.74	V
									V
									V
									V
									V

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



LTE Band 14 / 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)
Middle	1576	-44.40	-42.15	-2.25	-54.47	-49.74	0.90	8.39	H
	2368	-36.34	-13	-23.34	-50.95	-43.58	1.12	10.52	H
	3172	-54.51	-13	-41.51	-70.39	-62.77	1.30	11.71	H
									H
									H
									H
									H
	1576	-46.81	-42.15	-4.66	-56.41	-52.15	0.90	8.39	V
	2368	-38.17	-13	-25.17	-52.52	-45.41	1.12	10.52	V
	3172	-53.75	-13	-40.75	-70.1	-62.01	1.30	11.71	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	1424	-36.45	-13	-23.45	-47.65	-38.25	0.88	4.83	H
	2136	-37.85	-13	-24.85	-52.58	-38.83	1.18	4.31	H
	2856	-50.09	-13	-37.09	-65.13	-52.22	1.40	5.68	H
									H
									H
									H
									H
	1424	-43.68	-13	-30.68	-53.68	-45.48	0.88	4.83	V
	2136	-41.63	-13	-28.63	-55.21	-42.61	1.18	4.31	V
	2856	-46.22	-13	-33.22	-61.25	-48.35	1.40	5.68	V
									V
									V
									V
									V
Middle	1432	-36.55	-13	-23.55	-47.76	-38.40	0.88	4.88	H
	2144	-36.94	-13	-23.94	-51.66	-37.94	1.18	4.33	H
	2856	-51.63	-13	-38.63	-66.67	-53.76	1.40	5.68	H
									H
									H
									H
									H
	1432	-43.06	-13	-30.06	-53.07	-44.91	0.88	4.88	V
	2144	-41.05	-13	-28.05	-54.62	-42.05	1.18	4.33	V
	2856	-46.32	-13	-33.32	-61.35	-48.45	1.40	5.68	V
									V
									V
									V
									V



Highest	1432	-35.51	-13	-22.51	-46.72	-37.36	0.88	4.88	H
	2144	-36.37	-13	-23.37	-51.09	-37.37	1.18	4.33	H
	2856	-50.88	-13	-37.88	-65.92	-53.01	1.40	5.68	H
	3568	-51.36	-13	-38.36	-68.25	-55.67	1.63	8.08	H
									H
									H
									H
	1432	-42.85	-13	-29.85	-52.86	-44.70	0.88	4.88	V
	2144	-40.12	-13	-27.12	-53.69	-41.12	1.18	4.33	V
	2856	-46.34	-13	-33.34	-61.37	-48.47	1.40	5.68	V
	3568	-53.06	-13	-40.06	-70.08	-57.37	1.63	8.08	V
									V
									V
									V

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

**LTE Band 25**

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)
Lowest	3700	-62.15	-13	-49.15	-55.57	-73.94	0.73	12.52	H
	5555	-59.73	-13	-46.73	-59.48	-71.9	1.00	13.17	H
	7403	-61.45	-13	-48.45	-66.05	-70.84	1.18	10.57	H
									H
									H
									H
									H
	3700	-61.09	-13	-48.09	-54.65	-72.88	0.73	12.52	V
	5555	-57.40	-13	-44.40	-56.67	-69.57	1.00	13.17	V
	7403	-61.90	-13	-48.90	-66.36	-71.29	1.18	10.57	V
									V
									V
									V
									V
Middle	3742	-58.77	-13	-45.77	-52.41	-70.57	0.70	12.50	H
	5611	-58.08	-13	-45.08	-57.7	-70.23	0.98	13.13	H
	7484	-62.31	-13	-49.31	-66.79	-71.56	1.18	10.43	H
									H
									H
									H
									H
	3742	-58.22	-13	-45.22	-52.04	-70.02	0.70	12.50	V
	5611	-57.95	-13	-44.95	-57.27	-70.1	0.98	13.13	V
	7484	-62.07	-13	-49.07	-66.46	-71.32	1.18	10.43	V
									V
									V
									V
									V



Highest	3791	-57.90	-13	-44.90	-51.82	-69.71	0.67	12.48	H
	5688	-59.15	-13	-46.15	-59.24	-71.25	0.99	13.09	H
	7582	-62.39	-13	-49.39	-66.36	-71.84	1.18	10.63	H
									H
									H
									H
									H
	3791	-57.01	-13	-44.01	-51.18	-68.82	0.67	12.48	V
	5688	-60.80	-13	-47.80	-60.35	-72.9	0.99	13.09	V
	7582	-63.02	-13	-50.02	-66.95	-72.47	1.18	10.63	V
									V
									V
									V
									V

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

**LTE Band 26**

Part 22H LTE Band 26 / 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	1656	-46.43	-13	-33.43	-56.56	-53.40	0.53	9.64	H
	2488	-48.32	-13	-35.32	-62.63	-56.31	0.65	10.79	H
	3320	-54.30	-13	-41.30	-69.92	-63.45	0.76	12.06	H
									H
									H
									H
									H
	1656	-52.04	-13	-39.04	-61.57	-59.01	0.53	9.64	V
	2488	-48.30	-13	-35.30	-62.83	-56.29	0.65	10.79	V
	3320	-54.20	-13	-41.20	-70.29	-63.35	0.76	12.06	V
									V
									V
									V
									V
Middle	1672	-45.73	-13	-32.73	-55.91	-52.73	0.53	9.68	H
	2512	-49.00	-13	-36.00	-63.29	-57.00	0.66	10.81	H
	3352	-54.49	-13	-41.49	-70.03	-63.73	0.76	12.16	H
									H
									H
									H
									H
	1672	-51.98	-13	-38.98	-61.5	-58.98	0.53	9.68	V
	2512	-49.27	-13	-36.27	-63.74	-57.27	0.66	10.81	V
	3352	-54.17	-13	-41.17	-70.16	-63.41	0.76	12.16	V
									V
									V
									V
									V



Highest	1688	-46.05	-13	-33.05	-56.26	-53.08	0.53	9.71	H
	2528	-51.89	-13	-38.89	-66.17	-59.89	0.66	10.82	H
	3368	-54.67	-13	-41.67	-70.16	-63.96	0.77	12.20	H
									H
									H
									H
									H
	1688	-50.14	-13	-37.14	-59.69	-57.17	0.53	9.71	V
	2528	-51.04	-13	-38.04	-65.45	-59.04	0.66	10.82	V
	3368	-54.04	-13	-41.04	-69.97	-63.33	0.77	12.20	V
									V
									V
									V
									V

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



Part 22H 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	1664	-45.71	-13	-32.71	-55.85	-52.69	0.53	9.66	H
	2496	-48.38	-13	-35.38	-62.68	-56.37	0.65	10.80	H
	3328	-54.89	-13	-41.89	-70.47	-64.06	0.76	12.08	H
									H
									H
									H
									H
	1664	-52.61	-13	-39.61	-62.15	-59.59	0.53	9.66	V
	2496	-48.50	-13	-35.50	-63.02	-56.49	0.65	10.80	V
	3328	-54.09	-13	-41.09	-70.13	-63.26	0.76	12.08	V
									V
									V
									V
									V
Middle	1672	-46.99	-13	-33.99	-57.17	-53.99	0.53	9.68	H
	2512	-48.95	-13	-35.95	-63.24	-56.95	0.66	10.81	H
	3352	-55.44	-13	-42.44	-70.98	-64.68	0.76	12.16	H
									H
									H
									H
									H
	1672	-52.35	-13	-39.35	-61.87	-59.35	0.53	9.68	V
	2512	-46.16	-13	-33.16	-60.63	-54.16	0.66	10.81	V
	3352	-54.61	-13	-41.61	-70.6	-63.85	0.76	12.16	V
									V
									V
									V
									V



Highest	1680	-45.67	-13	-32.67	-55.87	-52.69	0.53	9.70	H
	2528	-52.14	-13	-39.14	-66.42	-60.14	0.66	10.82	H
	3376	-54.98	-13	-41.98	-70.43	-64.29	0.77	12.23	H
									H
									H
									H
									H
	1680	-51.48	-13	-38.48	-61.02	-58.50	0.53	9.70	V
	2528	-49.09	-13	-36.09	-63.5	-57.09	0.66	10.82	V
	3376	-54.86	-13	-41.86	-70.75	-64.17	0.77	12.23	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	5178	-51.08	-25	-26.08	-49.69	-60.93	2.29	12.14	H
	7764	-60.20	-25	-35.20	-63.86	-69.04	2.11	10.95	H
	10320	-61.20	-25	-36.20	-65.21	-70.82	2.31	11.93	H
									H
									H
									H
									H
	5178	-49.18	-25	-24.18	-47.61	-59.03	2.29	12.14	V
	7764	-54.06	-25	-29.06	-57.46	-62.90	2.11	10.95	V
	10320	-60.84	-25	-35.84	-64.96	-70.46	2.31	11.93	V
									V
									V
									V
									V
Middle	5208	-47.83	-25	-22.83	-46.5	-57.70	2.27	12.14	H
	7812	-55.62	-25	-30.62	-59.32	-64.63	2.11	11.12	H
	10380	-61.36	-25	-36.36	-65.39	-70.91	2.40	11.95	H
									H
									H
									H
									H
	5208	-46.43	-25	-21.43	-44.91	-56.30	2.27	12.14	V
	7812	-58.16	-25	-33.16	-61.58	-67.17	2.11	11.12	V
	10380	-61.34	-25	-36.34	-65.34	-70.89	2.40	11.95	V
									V
									V
									V
									V



Highest	5238	-45.54	-25	-20.54	-44.24	-55.43	2.26	12.15	H
	7854	-56.07	-25	-31.07	-59.93	-65.23	2.11	11.27	H
	10440	-60.54	-25	-35.54	-64.57	-70.02	2.50	11.98	H
									H
									H
									H
									H
	5238	-45.08	-25	-20.08	-43.58	-54.97	2.26	12.15	V
	7854	-56.29	-25	-31.29	-59.89	-65.45	2.11	11.27	V
	10440	-60.78	-25	-35.78	-64.67	-70.26	2.50	11.98	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	5028	-47.92	-25	-22.92	-46.56	-59.23	0.95	12.26	H
	7542	-55.50	-25	-30.50	-59.67	-64.84	1.18	10.52	H
	10053	-62.07	-25	-37.07	-66.04	-72.7	1.37	12.00	H
									H
									H
									H
									H
	5028	-44.56	-25	-19.56	-42.8	-55.87	0.95	12.26	V
	7542	-47.30	-25	-22.30	-51.43	-56.64	1.18	10.52	V
	10053	-61.51	-25	-36.51	-66.13	-72.14	1.37	12.00	V
									V
									V
									V
									V
Middle	5202	-50.18	-25	-25.18	-48.79	-61.79	0.99	12.60	H
	7806	-61.57	-25	-36.57	-65.17	-71.64	1.19	11.26	H
	10404	-60.58	-25	-35.58	-64.61	-70.51	1.41	11.33	H
									H
									H
									H
									H
	5202	-49.55	-25	-24.55	-48	-61.16	0.99	12.60	V
	7806	-57.55	-25	-32.55	-60.85	-67.62	1.19	11.26	V
	10404	-61.19	-25	-36.19	-65.14	-71.12	1.41	11.33	V
									V
									V
									V
									V



Highest	5376	-46.90	-25	-21.90	-45.99	-58.79	1.06	12.95	H
	8064	-57.57	-25	-32.57	-62.03	-68.15	1.23	11.81	H
	10755	-61.02	-25	-36.02	-64.65	-70.25	1.44	10.67	H
									H
									H
									H
									H
	5376	-49.11	-25	-24.11	-47.82	-61	1.06	12.95	V
	8064	-54.61	-25	-29.61	-59.08	-65.19	1.23	11.81	V
	10755	-60.74	-25	-35.74	-64.14	-69.97	1.44	10.67	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	3441	-61.35	-13	-48.35	-52.71	-73.00	0.78	12.42	H
	5163	-55.26	-13	-42.26	-53.88	-66.81	0.98	12.53	H
	6882	-64.00	-13	-51.00	-66.72	-74.66	0.90	11.56	H
									H
									H
									H
									H
	3441	-59.86	-13	-46.86	-51.61	-71.51	0.78	12.42	V
	5163	-55.43	-13	-42.43	-53.82	-66.98	0.98	12.53	V
	6882	-64.52	-13	-51.52	-66.82	-75.18	0.90	11.56	V
									V
									V
									V
									V
Middle	3469	-62.70	-13	-49.70	-54.24	-74.43	0.78	12.51	H
	5205	-54.58	-13	-41.58	-53.19	-66.20	0.99	12.61	H
	6938	-61.94	-13	-48.94	-65.97	-72.35	1.03	11.44	H
									H
									H
									H
									H
	3469	-57.17	-13	-44.17	-49.09	-68.90	0.78	12.51	V
	5205	-53.48	-13	-40.48	-51.93	-65.10	0.99	12.61	V
	6938	-63.32	-13	-50.32	-65.89	-73.73	1.03	11.44	V
									V
									V
									V
									V



Highest	3539	-55.06	-13	-42.06	-47.27	-66.86	0.78	12.58	H
	5310	-51.49	-13	-38.49	-50.44	-63.28	1.03	12.82	H
	7081	-61.92	-13	-48.92	-65.74	-71.90	1.17	11.15	H
									H
									H
									H
									H
	3539	-53.41	-13	-40.41	-45.86	-65.21	0.78	12.58	V
	5310	-51.08	-13	-38.08	-49.72	-62.87	1.03	12.82	V
	7081	-62.21	-13	-49.21	-65.92	-72.19	1.17	11.15	V
									V
									V
									V
									V

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