



FCC RADIO TEST REPORT

FCC ID : PKRISGFW2000
Equipment : 5G CPE Wireless Solution
Brand Name : Inseego
Model Name : FW2000
Marketing Name : FW2000,FW2000e
Applicant : Inseego Corp.
9710 Scranton Road Suite 200, San
Diego, CA 92121
Manufacturer : Inseego Corp.
9710 Scranton Road Suite 200, San
Diego, CA 92121
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Feb. 23, 2021 and testing was started from Feb. 27, 2021 and completed on May 16, 2021. 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 test results in this variant 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.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG082512-01A	01	Initial issue of report	May 20, 2021



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)(9) §27.50 (c)(9)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)		
	§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)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Not Required	-
-	§2.1049	Occupied Bandwidth	Not Required	-
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Not Required	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Not Required	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Not Required	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
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 29.87 dB at 10683.000 MHz
	\$2.1051 \$27.53 (m)(2)(v)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by revising antenna path. All the test cases were performed on original report which can be referred to Sporton Report Number FG082512A. Based on the original report, the test cases were verified.

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: Lewis Ho**Report Producer: Vivian Hsu**

1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Bluetooth and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed Internal Antenna Bluetooth: Fixed Internal Antenna GPS/Glonass/Galileo/BDS : Fixed Internal Antenna
Antenna Gain	<Ant. 0>: <Main Antenna >: LTE Band 2: 9.1dBi LTE Band 4: 8.5dBi LTE Band 5: 2.4dBi LTE Band 7: 10.3dBi LTE Band 12: 3.3dBi LTE Band 13: 0.4dBi LTE Band 17: 3.3dBi LTE Band 25: 9.1dBi LTE Band 26: 2.4dBi LTE Band 38: 6.0dBi LTE Band 41: 10.3dB LTE Band 66: 8.5dBi LTE Band 71: 3.1dBi <Aux. Antenna>: LTE Band 2: 10.4dBi LTE Band 4: 11.8dBi LTE Band 5: 4.1dBi LTE Band 7: 9.5dBi LTE Band 12: 2.8dBi LTE Band 13: 2.8dBi LTE Band 17: 2.8dBi LTE Band 25: 9.5dBi LTE Band 26: 4.1dBi LTE Band 66: 11.8dBi LTE Band 71: 3.3dBi <Ant. 8>: <Main Antenna >: LTE Band 2: 9.1dBi LTE Band 4: 8.5dBi LTE Band 7: 10.3dBi LTE Band 25: 9.1dBi LTE Band 41: 10.3dB LTE Band 66: 8.5dBi <Aux. Antenna>: LTE Band 2: 10.4dBi LTE Band 4: 11.8dBi LTE Band 7: 9.5dBi LTE Band 25: 9.5dBi LTE Band 66: 11.8dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.



1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Benjamin Lin
Temperature	23.8~24.5℃
Relative Humidity	48.9~51.5%

Test Site	Sporton International Inc. Wensan Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	20.7~26.5℃
Relative Humidity	58.6~67.7%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 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
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for LTE Band 41_CA; Y Plane for LTE Band 4, 25, 41, 66B_CA, 66C_CA; Z Plane for LTE Band 7) were recorded in this report.

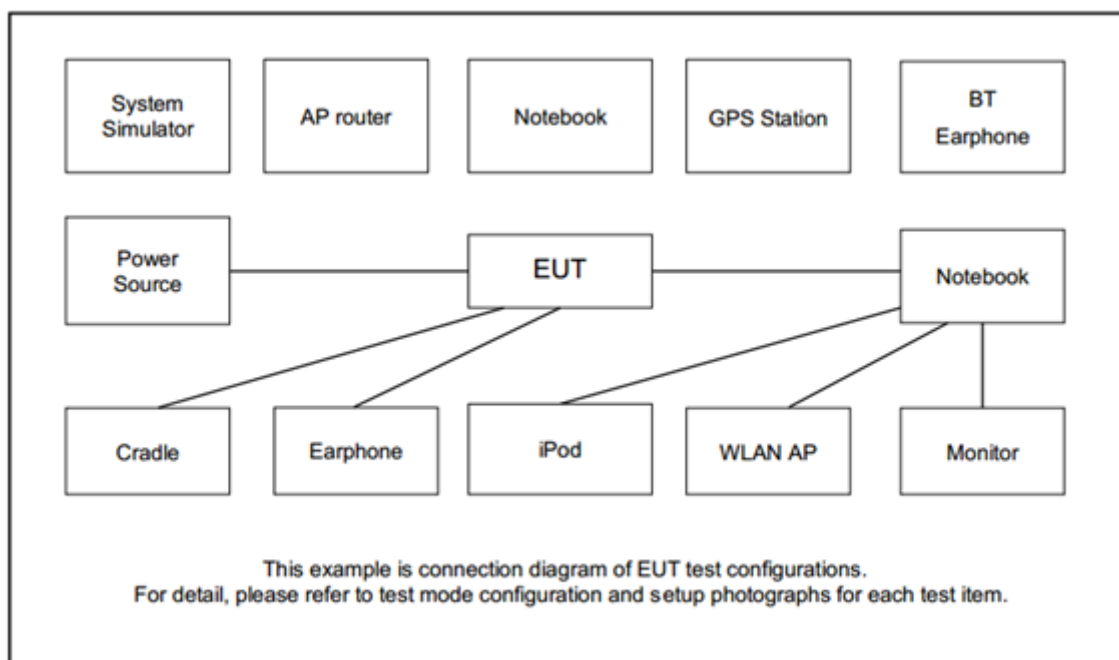
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	Max. Power					
	4	v	v	v	v	v	v	v	v	v						
	7	-	-	v	v	v	v	v	v	v						
	25	v	v	v	v	v	v	v	v	v						
	41	-	-	v	v	v	v	v	v	v						
	66	v	v	v	v	v	v	v	v	v						
Radiated Spurious Emission	2	Covered by Band 25												v	v	v
	4	Worst Case												v	v	v
	7	Worst Case												v	v	v
	25	Worst Case												v	v	v
	41	Worst Case												v	v	v
	66	Covered by Band 4												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. Wider operating range bandwidth covers narrower one when the power is higher or the same.															



Test Items	Band	Bandwidth (MHz)								Modulation			RB #			Test Channel		
		10+10	15+5	5+15	10+5	5+10	5+5	5+3	3+5	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	66B_CA	v	v	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P.	66B_CA	v	v	v	v	v	v	-	-	v	v	v	Max. Power					
Radiated Spurious Emission	66B_CA	v						-	-	v			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.																	

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power					
	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v						
Radiated Spurious Emission	41_CA	v										v			v				v	v
	66C_CA	v										v			v				v	v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	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 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 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 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	132197	132322
	Frequency	1720.0	1732.5	1745.0
15	Channel	132047	132197	132347
	Frequency	1717.5	1732.5	1747.5
10	Channel	132022	132197	132372
	Frequency	1715.0	1732.5	1750.0
5	Channel	131997	132197	132397
	Frequency	1712.5	1732.5	1752.5
3	Channel	131987	132197	132407
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	131979	132197	132415
	Frequency	1710.7	1732.5	1754.3



LTE Band 41 Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41 Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7



LTE Band 66B Channel and Frequency List					
5 + 5	PCC	Channel	131977	132173	132349
		Frequency	1712.5	1730.1	1747.7
	SCC	Channel	132045	132221	132397
		Frequency	1717.3	1734.9	1752.5
5 + 10	PCC	Channel	131997	132149	132300
		Frequency	1712.5	1727.7	1742.8
	SCC	Channel	132069	132221	132372
		Frequency	1719.7	1734.9	1750.0
10 + 5	PCC	Channel	132022	132174	132325
		Frequency	1715.0	1730.2	1745.3
	SCC	Channel	132094	132246	132397
		Frequency	1722.2	1737.4	1752.5
5 + 15	PCC	Channel	131997	132126	132254
		Frequency	1712.5	1725.4	1738.2
	SCC	Channel	132090	132219	132347
		Frequency	1721.8	1734.7	1747.5
15 + 5	PCC	Channel	132047	132176	132304
		Frequency	1717.5	1730.4	1743.2
	SCC	Channel	132140	132269	132397
		Frequency	1726.8	1739.7	1752.5
10 + 10	PCC	Channel	132022	132148	132273
		Frequency	1715.0	1727.6	1740.1
	SCC	Channel	132121	132247	132372
		Frequency	1724.9	1737.5	1750.0



LTE Band 66C Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	132072	132098	132124
		Frequency	1720.0	1722.6	1725.2
	SCC	Channel	132270	132296	132322
		Frequency	1739.8	1742.4	1745.0
20 + 15	PCC	Channel	132072	132124	132176
		Frequency	1720.0	1725.2	1730.4
	SCC	Channel	132243	132295	132347
		Frequency	1737.1	1742.3	1747.5
15 + 20	PCC	Channel	132047	132099	132151
		Frequency	1717.5	1722.7	1727.9
	SCC	Channel	132218	132270	132322
		Frequency	1734.6	1739.8	1745.0
20 + 10	PCC	Channel	132072	132150	132228
		Frequency	1720.0	1727.8	1735.6
	SCC	Channel	132216	132294	132372
		Frequency	1734.4	1742.2	1750.0
10 + 20	PCC	Channel	132022	132100	132178
		Frequency	1715.0	1722.8	1730.6
	SCC	Channel	132166	132244	132322
		Frequency	1729.4	1737.2	1745.0



LTE Band 66C Channel and Frequency List					
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720.0	1752.5	1765.0
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7
5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3
	SCC	Channel	132122	132447	132572
		Frequency	1725.0	1757.5	1770.0
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1761.1	1774.7

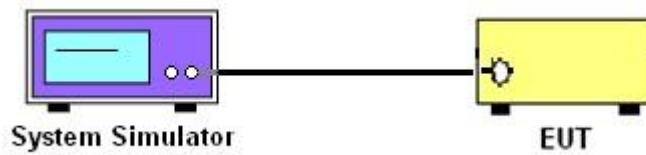
3 Conducted Test Items

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 ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26

The ERP of Control stations and mobile stations must not exceed 30 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71

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 Fixed 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.

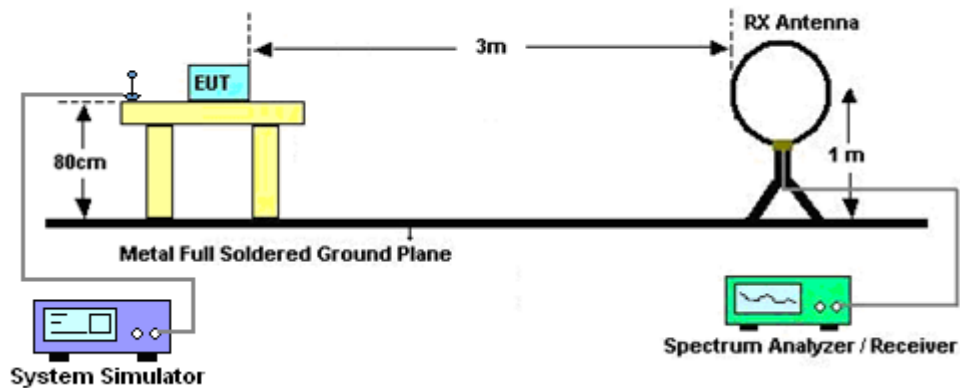
4 Radiated Test Items

4.1 Measuring Instruments

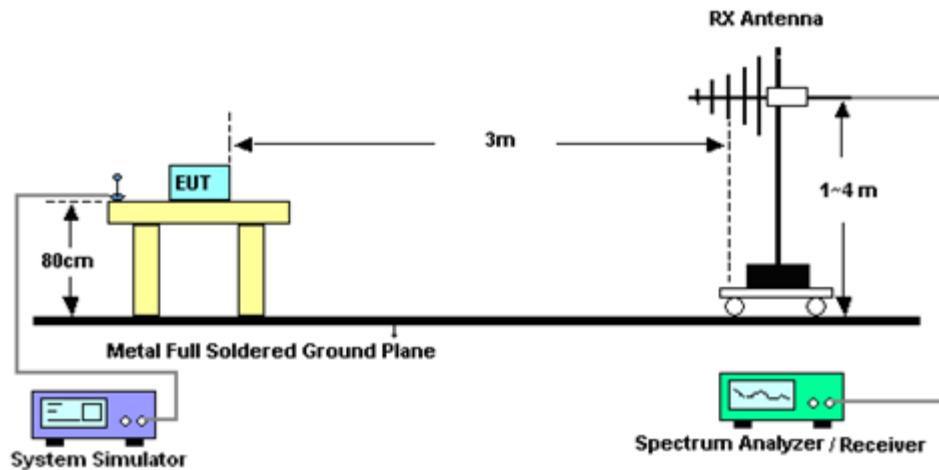
See list of measuring instruments of this test report.

4.1.1 Test Setup

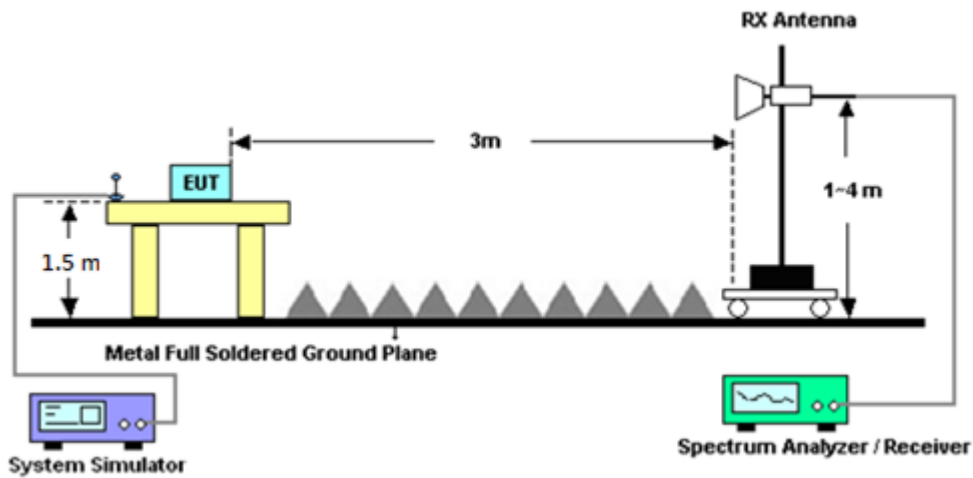
For radiated test below 30MHz



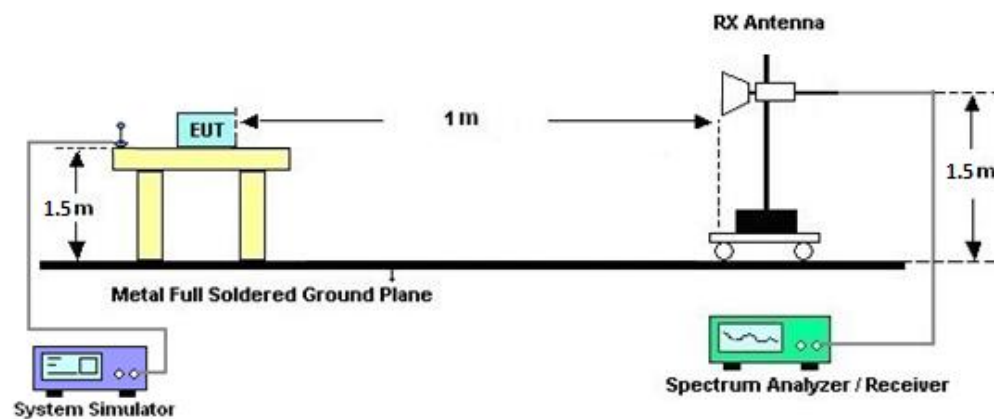
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



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 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 7 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)

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

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



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Feb. 27, 2021~ Mar. 04, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Feb. 27, 2021~ Mar. 04, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Feb. 27, 2021~ Mar. 04, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 20, 2020	Feb. 27, 2021~ Mar. 04, 2021	May 19, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Dec. 19, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz~40GHz	May 22, 2019	Feb. 27, 2021~ Mar. 04, 2021	May 21, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Feb. 27, 2021~ Mar. 04, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 05, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Feb. 27, 2021~ Mar. 04, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 04, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 04, 2021	Feb. 22, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 21, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 20, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Jul. 14, 2020	Feb. 27, 2021~ Mar. 04, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 18, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 17, 2021	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262002534 1	N/A	Oct. 05, 2020	May 01, 2021~ May 16, 2021	Oct. 05, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	May 01, 2021~ May 16, 2021	Nov. 26, 2021	Conducted (TH03-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Aug. 05, 2020	May 01, 2021~ May 16, 2021	Aug. 04, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 05, 2020	May 01, 2021~ May 16, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	May 01, 2021~ May 16, 2021	Jan. 08, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.07
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.21
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.80
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.08	21.94	22.24	31.34	1.3614
20	1	49		21.91	21.92	22.22		
20	1	99		21.93	21.99	22.02		
20	50	0		21.11	20.98	21.18		
20	50	24		21.15	21.20	21.20		
20	50	50		21.15	21.19	21.20		
20	100	0		21.11	21.07	21.28		
20	1	0	16-QAM	21.06	21.67	21.68	30.87	1.2218
20	1	49		21.36	21.03	21.77		
20	1	99		21.02	21.40	21.34		
20	50	0		20.17	20.12	20.28		
20	50	24		20.22	20.11	20.30		
20	50	50		20.04	20.26	20.27		
20	100	0		20.10	20.10	20.24		
20	1	0	64-QAM	20.10	20.22	20.09	29.65	0.9226
20	1	49		20.44	19.88	19.88		
20	1	99		20.15	20.55	20.31		
20	50	0		19.17	19.00	19.17		
20	50	24		19.16	19.13	19.30		
20	50	50		19.22	19.18	19.29		
20	100	0		19.22	19.13	19.08		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	21.88	21.75	22.15	31.26	1.3366
15	1	37		21.76	21.90	22.16		
15	1	74		21.77	21.82	21.99		
15	36	0		21.05	20.90	21.15		
15	36	20		20.96	21.10	21.12		
15	36	39		21.00	21.00	21.03		
15	75	0		21.00	20.96	21.21		
15	1	0	16-QAM	20.95	21.67	21.62	30.85	1.2162
15	1	37		21.27	20.87	21.75		
15	1	74		20.82	21.36	21.19		
15	36	0		20.01	19.99	20.08		
15	36	20		20.14	20.10	20.19		
15	36	39		19.89	20.10	20.19		
15	75	0		19.97	20.03	20.04		
15	1	0	64-QAM	19.97	20.18	19.97	29.48	0.8872
15	1	37		20.31	19.71	19.78		
15	1	74		19.97	20.38	20.20		
15	36	0		18.98	18.94	19.00		
15	36	20		19.02	19.06	19.19		
15	36	39		19.17	19.03	19.24		
15	75	0		19.19	18.95	18.91		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	21.97	21.78	22.06	31.16	1.3062
10	1	25		21.89	21.82	22.02		
10	1	49		21.91	21.97	21.96		
10	25	0		21.10	20.92	21.00		
10	25	12		21.01	21.18	21.10		
10	25	25		21.13	21.01	21.17		
10	50	0		21.07	21.07	21.26		
10	1	0	16-QAM	20.94	21.67	21.66	30.84	1.2134
10	1	25		21.22	20.99	21.74		
10	1	49		20.96	21.37	21.23		
10	25	0		20.01	20.12	20.08		
10	25	12		20.20	20.05	20.10		
10	25	25		19.92	20.13	20.25		
10	50	0		19.99	19.99	20.08		
10	1	0	64-QAM	19.95	20.13	19.99	29.61	0.9141
10	1	25		20.41	19.76	19.83		
10	1	49		20.03	20.51	20.19		
10	25	0		19.16	18.81	18.98		
10	25	12		19.05	19.03	19.19		
10	25	25		19.21	18.98	19.12		
10	50	0		19.02	19.10	19.01		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.89	21.86	22.04	31.20	1.3183
5	1	12		21.88	21.91	22.10		
5	1	24		21.90	21.96	22.02		
5	12	0		20.99	20.90	21.17		
5	12	7		21.13	21.18	21.01		
5	12	13		21.04	21.01	21.11		
5	25	0		20.96	21.01	21.10		
5	1	0	16-QAM	20.86	21.60	21.54	30.70	1.1749
5	1	12		21.24	20.86	21.57		
5	1	24		20.92	21.34	21.22		
5	12	0		20.10	19.94	20.16		
5	12	7		20.05	20.02	20.12		
5	12	13		19.98	20.25	20.21		
5	25	0		20.00	20.06	20.07		
5	1	0	64-QAM	20.02	20.15	20.08	29.48	0.8872
5	1	12		20.25	19.78	19.73		
5	1	24		19.97	20.38	20.11		
5	12	0		19.17	18.90	19.14		
5	12	7		19.00	18.96	19.27		
5	12	13		19.06	19.13	19.24		
5	25	0		19.13	19.04	19.07		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.06	21.77	22.07	31.26	1.3366
3	1	8		21.76	21.75	22.16		
3	1	14		21.83	21.87	21.82		
3	8	0		20.91	20.80	21.03		
3	8	4		21.14	21.02	21.06		
3	8	7		21.06	21.00	21.11		
3	15	0		20.91	21.00	21.20		
3	1	0	16-QAM	20.92	21.48	21.48	30.81	1.2050
3	1	8		21.24	20.99	21.71		
3	1	14		20.90	21.25	21.28		
3	8	0		20.14	20.04	20.20		
3	8	4		20.15	19.97	20.27		
3	8	7		20.03	20.07	20.14		
3	15	0		19.91	19.97	20.14		
3	1	0	64-QAM	19.97	20.17	20.07	29.65	0.9226
3	1	8		20.37	19.87	19.82		
3	1	14		19.96	20.55	20.11		
3	8	0		19.09	18.90	19.04		
3	8	4		19.16	19.07	19.23		
3	8	7		19.21	19.13	19.16		
3	15	0		19.22	19.04	18.98		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	21.84	21.71	22.18	31.28	1.3428
1.4	1	3		21.75	21.77	22.06		
1.4	1	5		21.78	21.77	21.83		
1.4	3	0		21.72	21.87	21.75		
1.4	3	1		21.72	21.75	21.82		
1.4	3	3		21.82	21.82	21.75		
1.4	6	0		21.02	20.91	21.17		
1.4	1	0	16-QAM	20.87	20.94	21.22	30.46	1.1117
1.4	1	3		21.11	20.93	21.36		
1.4	1	5		20.93	21.33	21.23		
1.4	3	0		21.02	21.01	21.03		
1.4	3	1		21.06	20.90	21.04		
1.4	3	3		20.79	21.09	21.06		
1.4	6	0		19.95	19.93	20.13		
1.4	1	0	64-QAM	19.87	20.11	19.85	29.42	0.8750
1.4	1	3		20.32	19.78	19.63		
1.4	1	5		20.01	19.94	20.06		
1.4	3	0		19.98	19.77	20.06		
1.4	3	1		20.10	19.94	20.16		
1.4	3	3		20.15	20.01	20.09		
1.4	6	0		19.13	18.95	18.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.78	22.68	22.84	31.94	1.5631
20	1	49		22.66	22.72	22.83		
20	1	99		22.65	22.61	22.69		
20	50	0		21.93	21.81	21.98		
20	50	24		21.91	21.77	22.06		
20	50	50		21.95	21.82	21.96		
20	100	0		22.01	21.93	21.92		
20	1	0	16-QAM	22.39	22.31	22.41	31.51	1.4158
20	1	49		22.31	22.27	21.91		
20	1	99		22.06	22.13	21.95		
20	50	0		20.94	20.86	20.95		
20	50	24		20.95	20.77	20.87		
20	50	50		20.86	20.87	20.98		
20	100	0		20.96	20.85	21.01		
20	1	0	64-QAM	21.07	20.92	21.11	30.21	1.0495
20	1	49		20.77	20.87	21.07		
20	1	99		20.77	20.83	20.62		
20	50	0		19.99	19.78	19.93		
20	50	24		19.97	19.76	19.91		
20	50	50		19.85	19.88	19.96		
20	100	0		19.95	19.83	20.08		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.75	22.51	22.72	31.86	1.5346
15	1	37		22.63	22.66	22.76		
15	1	74		22.45	22.51	22.52		
15	36	0		21.85	21.63	21.98		
15	36	20		21.73	21.71	21.98		
15	36	39		21.89	21.79	21.88		
15	75	0		21.95	21.88	21.81		
15	1	0	16-QAM	22.21	22.13	22.29	31.39	1.3772
15	1	37		22.29	22.17	21.77		
15	1	74		22.00	22.07	21.76		
15	36	0		20.81	20.66	20.80		
15	36	20		20.84	20.76	20.78		
15	36	39		20.77	20.84	20.90		
15	75	0		20.78	20.75	20.87		
15	1	0	64-QAM	20.87	20.89	20.92	30.12	1.0280
15	1	37		20.76	20.79	21.02		
15	1	74		20.57	20.76	20.43		
15	36	0		19.92	19.69	19.90		
15	36	20		19.78	19.76	19.71		
15	36	39		19.71	19.72	19.94		
15	75	0		19.94	19.70	20.02		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.60	22.56	22.81	31.91	1.5524
10	1	25		22.54	22.65	22.80		
10	1	49		22.62	22.55	22.57		
10	25	0		21.73	21.70	21.78		
10	25	12		21.72	21.61	21.96		
10	25	25		21.83	21.78	21.93		
10	50	0		21.91	21.89	21.83		
10	1	0	16-QAM	22.31	22.31	22.35	31.45	1.3964
10	1	25		22.26	22.21	21.76		
10	1	49		22.00	22.02	21.93		
10	25	0		20.84	20.83	20.82		
10	25	12		20.88	20.67	20.82		
10	25	25		20.75	20.69	20.90		
10	50	0		20.76	20.65	21.00		
10	1	0	64-QAM	21.07	20.84	21.01	30.17	1.0399
10	1	25		20.63	20.78	21.01		
10	1	49		20.73	20.64	20.44		
10	25	0		19.92	19.64	19.82		
10	25	12		19.81	19.73	19.79		
10	25	25		19.75	19.80	19.95		
10	50	0		19.76	19.81	19.93		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.59	22.64	22.72	31.89	1.5453
5	1	12		22.58	22.56	22.79		
5	1	24		22.55	22.53	22.68		
5	12	0		21.86	21.65	21.94		
5	12	7		21.74	21.64	22.02		
5	12	13		21.92	21.65	21.87		
5	25	0		21.90	21.74	21.79		
5	1	0	16-QAM	22.35	22.30	22.40	31.50	1.4125
5	1	12		22.19	22.11	21.88		
5	1	24		21.87	21.96	21.87		
5	12	0		20.76	20.73	20.85		
5	12	7		20.92	20.67	20.70		
5	12	13		20.70	20.76	20.93		
5	25	0		20.85	20.74	20.88		
5	1	0	64-QAM	20.88	20.91	20.97	30.11	1.0257
5	1	12		20.66	20.76	21.01		
5	1	24		20.66	20.67	20.49		
5	12	0		19.86	19.63	19.83		
5	12	7		19.97	19.60	19.84		
5	12	13		19.68	19.81	19.88		
5	25	0		19.84	19.79	19.97		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.66	22.55	22.65	31.85	1.5311
3	1	8		22.55	22.57	22.75		
3	1	14		22.50	22.42	22.60		
3	8	0		21.86	21.73	21.88		
3	8	4		21.73	21.57	21.96		
3	8	7		21.88	21.64	21.95		
3	15	0		21.84	21.92	21.76		
3	1	0	16-QAM	22.34	22.26	22.39	31.49	1.4093
3	1	8		22.19	22.19	21.76		
3	1	14		22.02	22.02	21.79		
3	8	0		20.75	20.76	20.83		
3	8	4		20.82	20.76	20.84		
3	8	7		20.76	20.78	20.85		
3	15	0		20.96	20.75	20.83		
3	1	0	64-QAM	20.87	20.74	20.93	30.04	1.0093
3	1	8		20.67	20.85	20.94		
3	1	14		20.73	20.63	20.52		
3	8	0		19.87	19.60	19.81		
3	8	4		19.81	19.72	19.85		
3	8	7		19.68	19.83	19.94		
3	15	0		19.81	19.78	20.02		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.50	22.30	22.53	31.63	1.4555
1.4	1	3		22.22	22.28	22.45		
1.4	1	5		22.26	22.15	22.25		
1.4	3	0		22.25	22.19	22.26		
1.4	3	1		22.21	22.19	22.16		
1.4	3	3		22.17	22.12	22.06		
1.4	6	0		21.56	21.55	21.60		
1.4	1	0	16-QAM	21.49	21.49	21.49	30.72	1.1803
1.4	1	3		21.45	21.36	21.62		
1.4	1	5		21.29	21.31	21.62		
1.4	3	0		21.16	21.16	21.26		
1.4	3	1		21.29	21.36	21.46		
1.4	3	3		21.22	21.31	21.36		
1.4	6	0		20.51	20.52	20.55		
1.4	1	0	64-QAM	20.64	20.48	20.79	29.89	0.9750
1.4	1	3		20.39	20.59	20.69		
1.4	1	5		20.36	20.56	20.59		
1.4	3	0		20.49	20.55	20.49		
1.4	3	1		20.36	20.49	20.56		
1.4	3	3		20.52	20.42	20.53		
1.4	6	0		19.57	19.39	19.68		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	21.26	21.10	21.25	29.76	0.9462
20	1	49		21.04	20.95	20.93		
20	1	99		21.04	20.78	20.99		
20	50	0		20.13	20.16	20.29		
20	50	24		20.13	20.14	20.23		
20	50	50		20.23	20.17	20.15		
20	100	0		20.21	20.23	20.16		
20	1	0	16-QAM	20.42	20.44	20.42	28.94	0.7834
20	1	49		20.35	20.07	19.99		
20	1	99		20.28	19.94	20.09		
20	50	0		19.20	19.28	19.29		
20	50	24		19.28	19.25	19.23		
20	50	50		19.12	19.18	19.19		
20	100	0		19.26	19.15	19.24		
20	1	0	64-QAM	18.92	19.17	18.87	27.79	0.6012
20	1	49		19.06	18.32	19.15		
20	1	99		19.08	18.52	19.29		
20	50	0		18.35	18.05	18.27		
20	50	24		18.33	17.45	18.18		
20	50	50		18.16	17.38	18.26		
20	100	0		18.35	17.93	18.20		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	21.26	20.93	21.25	29.76	0.9462
15	1	37		20.96	20.75	20.82		
15	1	74		20.87	20.69	20.85		
15	36	0		20.11	20.16	20.24		
15	36	20		20.10	20.12	20.05		
15	36	39		20.13	20.09	19.98		
15	75	0		20.10	20.03	19.98		
15	1	0	16-QAM	20.62	20.33	20.56	29.13	0.8185
15	1	37		20.63	19.97	19.84		
15	1	74		20.16	19.92	19.97		
15	36	0		19.18	19.12	19.13		
15	36	20		19.28	19.21	19.10		
15	36	39		19.08	19.12	19.07		
15	75	0		19.14	19.09	19.15		
15	1	0	64-QAM	18.73	19.07	18.82	27.60	0.5754
15	1	37		18.94	18.31	19.05		
15	1	74		18.91	17.60	19.10		
15	36	0		18.34	18.00	18.13		
15	36	20		18.30	17.29	18.12		
15	36	39		18.15	17.34	18.14		
15	75	0		18.26	17.85	18.05		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	21.07	20.91	21.05	29.57	0.9057
10	1	25		20.98	20.77	20.85		
10	1	49		21.02	20.66	20.96		
10	25	0		20.00	19.98	20.27		
10	25	12		20.06	20.03	20.10		
10	25	25		20.04	20.06	20.02		
10	50	0		20.04	20.15	20.05		
10	1	0	16-QAM	20.32	20.30	20.42	28.92	0.7798
10	1	25		20.32	20.03	19.80		
10	1	49		20.20	19.85	20.07		
10	25	0		19.18	19.08	19.16		
10	25	12		19.25	19.21	19.04		
10	25	25		18.96	19.09	19.14		
10	50	0		19.09	18.95	19.18		
10	1	0	64-QAM	18.74	19.06	18.76	27.72	0.5916
10	1	25		19.01	18.31	19.05		
10	1	49		18.88	18.24	19.22		
10	25	0		18.30	18.00	18.15		
10	25	12		18.26	17.42	17.99		
10	25	25		17.99	17.20	18.19		
10	50	0		18.29	17.83	18.00		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.07	20.90	21.08	29.58	0.9078
5	1	12		20.86	20.85	20.80		
5	1	24		20.89	20.65	20.91		
5	12	0		19.96	20.12	20.29		
5	12	7		20.04	19.99	20.21		
5	12	13		20.23	20.05	20.14		
5	25	0		20.02	20.08	20.09		
5	1	0	16-QAM	20.42	20.44	20.32	28.94	0.7834
5	1	12		20.32	19.90	19.85		
5	1	24		20.16	19.85	19.95		
5	12	0		19.02	19.10	19.20		
5	12	7		19.15	19.13	19.08		
5	12	13		18.93	19.17	19.05		
5	25	0		19.23	19.03	19.17		
5	1	0	64-QAM	18.79	19.14	18.86	27.74	0.5943
5	1	12		18.89	18.18	19.01		
5	1	24		19.04	18.23	19.24		
5	12	0		18.34	17.86	18.18		
5	12	7		18.22	17.35	18.09		
5	12	13		18.04	17.38	18.22		
5	25	0		18.35	17.83	18.10		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	21.24	21.01	21.21	29.74	0.9419
3	1	8		20.96	20.85	20.90		
3	1	14		20.96	20.62	20.93		
3	8	0		20.11	20.02	20.21		
3	8	4		19.96	19.95	20.15		
3	8	7		20.13	20.00	20.12		
3	15	0		20.10	20.23	20.07		
3	1	0	16-QAM	20.42	20.31	20.46	28.96	0.7870
3	1	8		20.35	19.94	19.95		
3	1	14		20.27	19.92	20.07		
3	8	0		19.11	19.12	19.14		
3	8	4		19.22	19.12	19.11		
3	8	7		19.12	18.98	19.16		
3	15	0		19.11	18.97	19.21		
3	1	0	64-QAM	18.88	19.07	18.87	27.75	0.5957
3	1	8		18.90	18.22	19.08		
3	1	14		19.05	18.42	19.25		
3	8	0		18.21	17.96	18.23		
3	8	4		18.27	17.42	18.08		
3	8	7		18.07	17.32	18.07		
3	15	0		18.25	17.89	18.06		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	21.18	20.93	21.02	29.68	0.9290
1.4	1	3		20.93	20.76	20.77		
1.4	1	5		20.85	20.67	20.82		
1.4	3	0		20.81	20.66	20.74		
1.4	3	1		20.88	20.88	20.64		
1.4	3	3		20.75	20.65	20.62		
1.4	6	0		20.11	20.02	20.07		
1.4	1	0	16-QAM	20.13	20.35	19.98	28.85	0.7674
1.4	1	3		20.28	19.83	19.77		
1.4	1	5		20.13	19.87	19.99		
1.4	3	0		20.25	20.12	20.25		
1.4	3	1		20.10	20.11	20.15		
1.4	3	3		20.12	20.06	20.15		
1.4	6	0		19.02	19.02	18.97		
1.4	1	0	64-QAM	18.80	18.91	18.70	27.63	0.5794
1.4	1	3		18.83	18.85	18.88		
1.4	1	5		18.91	18.84	19.13		
1.4	3	0		18.75	18.79	18.19		
1.4	3	1		18.72	18.78	18.10		
1.4	3	3		18.01	18.67	18.10		
1.4	6	0		18.12	17.80	18.08		
Limit	EIRP < 1W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.93	21.09	21.55	31.85	1.5311
20	1	49		20.92	20.94	21.35		
20	1	99		21.03	20.74	21.52		
20	50	0		20.00	20.22	20.45		
20	50	24		20.07	20.37	20.41		
20	50	50		20.11	20.33	20.61		
20	100	0		20.11	20.37	20.63		
20	1	0	16-QAM	20.20	20.69	20.75	31.13	1.2972
20	1	49		20.49	20.48	20.83		
20	1	99		20.45	20.18	20.62		
20	50	0		18.98	19.10	19.60		
20	50	24		19.08	19.33	19.60		
20	50	50		19.11	19.31	19.58		
20	100	0		19.12	19.24	19.46		
20	1	0	64-QAM	18.93	19.32	19.85	30.15	1.0351
20	1	49		19.54	19.46	19.76		
20	1	99		19.55	19.42	19.72		
20	50	0		17.98	17.74	18.53		
20	50	24		18.10	17.93	18.62		
20	50	50		18.20	17.79	18.66		
20	100	0		18.15	18.34	18.51		
Limit	Output power < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.93	20.96	21.43	31.73	1.4894
15	1	37		20.74	20.89	21.35		
15	1	74		20.96	20.66	21.39		
15	36	0		19.90	20.03	20.25		
15	36	20		20.04	20.27	20.41		
15	36	39		20.11	20.31	20.55		
15	75	0		20.05	20.30	20.60		
15	1	0	16-QAM	20.18	20.51	20.70	31.02	1.2647
15	1	37		20.36	20.41	20.69		
15	1	74		20.38	20.13	20.72		
15	36	0		18.87	19.08	19.41		
15	36	20		18.95	19.21	19.46		
15	36	39		19.09	19.16	19.52		
15	75	0		19.12	19.15	19.32		
15	1	0	64-QAM	18.80	19.30	19.67	29.97	0.9931
15	1	37		19.41	19.39	19.58		
15	1	74		19.48	19.41	19.56		
15	36	0		17.95	17.71	18.42		
15	36	20		18.07	17.75	18.62		
15	36	39		18.08	17.74	18.65		
15	75	0		18.14	18.34	18.34		
Limit	Output power < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.81	21.05	21.50	31.80	1.5136
10	1	25		20.78	20.89	21.35		
10	1	49		20.92	20.74	21.44		
10	25	0		20.00	20.06	20.42		
10	25	12		20.00	20.19	20.36		
10	25	25		20.02	20.30	20.51		
10	50	0		19.92	20.31	20.49		
10	1	0	16-QAM	20.12	20.67	20.68	30.98	1.2531
10	1	25		20.48	20.29	20.66		
10	1	49		20.29	20.17	20.55		
10	25	0		18.89	19.10	19.54		
10	25	12		18.92	19.19	19.41		
10	25	25		19.03	19.16	19.40		
10	50	0		19.05	19.04	19.44		
10	1	0	64-QAM	18.79	19.16	19.82	30.12	1.0280
10	1	25		19.52	19.44	19.65		
10	1	49		19.53	19.42	19.71		
10	25	0		17.79	17.74	18.37		
10	25	12		18.04	17.80	18.57		
10	25	25		18.16	17.75	18.50		
10	50	0		17.97	18.20	18.40		
Limit	Output power < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.87	20.98	21.41	31.71	1.4825
5	1	12		20.85	20.78	21.18		
5	1	24		20.94	20.85	21.38		
5	12	0		19.90	20.04	20.42		
5	12	7		19.97	20.36	20.36		
5	12	13		20.00	20.29	20.60		
5	25	0		20.07	20.36	20.47		
5	1	0	16-QAM	20.07	20.63	20.73	31.05	1.2735
5	1	12		20.43	20.35	20.75		
5	1	24		20.27	20.06	20.34		
5	12	0		18.95	18.97	19.56		
5	12	7		19.03	19.23	19.49		
5	12	13		19.00	19.30	19.52		
5	25	0		19.12	19.09	19.29		
5	1	0	64-QAM	18.85	19.15	19.67	30.00	1.0000
5	1	12		19.41	19.33	19.70		
5	1	24		19.45	19.41	19.53		
5	12	0		17.88	17.69	18.44		
5	12	7		17.92	17.85	18.54		
5	12	13		18.18	17.59	18.47		
5	25	0		17.98	18.33	18.35		
Limit	Output power < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	19.71	21.16	23.51	33.81	2.4044
20	1	49		20.71	21.34	23.16		
20	1	99		20.48	21.55	23.45		
20	50	0		19.52	20.36	22.11		
20	50	24		19.86	20.72	22.40		
20	50	50		19.97	20.74	22.34		
20	100	0		19.80	20.56	22.42		
20	1	0	16-QAM	19.02	20.38	21.91	32.92	1.9588
20	1	49		19.79	20.41	22.26		
20	1	99		19.49	20.76	22.62		
20	50	0		18.57	19.40	21.21		
20	50	24		18.88	19.69	21.41		
20	50	50		18.89	19.70	21.35		
20	100	0		18.76	19.57	21.42		
20	1	0	64-QAM	17.68	19.17	20.15	31.33	1.3583
20	1	49		18.76	19.52	20.46		
20	1	99		18.56	19.62	21.03		
20	50	0		17.47	18.39	19.37		
20	50	24		17.55	18.76	19.60		
20	50	50		17.76	18.74	19.91		
20	100	0		17.47	18.47	19.59		
Limit	Output power < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.00	21.33	23.48	33.78	2.3878
15	1	37		20.72	21.57	23.17		
15	1	74		20.97	21.92	23.45		
15	36	0		19.55	20.78	22.32		
15	36	20		19.94	20.88	22.36		
15	36	39		20.14	21.01	22.39		
15	75	0		19.90	20.79	22.43		
15	1	0	16-QAM	19.05	20.72	22.07	32.87	1.9364
15	1	37		19.79	20.63	22.34		
15	1	74		20.10	20.91	22.57		
15	36	0		18.56	19.76	21.33		
15	36	20		18.78	19.84	21.36		
15	36	39		19.05	19.92	21.39		
15	75	0		18.85	19.82	21.43		
15	1	0	64-QAM	17.81	19.44	20.21	31.53	1.4223
15	1	37		18.77	19.46	20.49		
15	1	74		19.05	19.80	21.23		
15	36	0		17.44	18.67	19.47		
15	36	20		17.75	18.94	19.67		
15	36	39		17.99	18.95	20.02		
15	75	0		17.83	18.85	19.70		
Limit	Output power < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.23	21.70	23.43	33.73	2.3605
10	1	25		20.77	21.83	23.37		
10	1	49		21.08	21.99	23.41		
10	25	0		19.58	20.89	22.44		
10	25	12		19.90	21.00	22.48		
10	25	25		20.07	21.05	22.53		
10	50	0		19.77	20.93	22.47		
10	1	0	16-QAM	19.29	20.99	22.19	32.86	1.9320
10	1	25		19.87	21.01	22.51		
10	1	49		20.17	21.17	22.56		
10	25	0		18.59	19.84	21.43		
10	25	12		18.91	19.95	21.47		
10	25	25		19.18	20.07	21.56		
10	50	0		18.93	20.03	21.48		
10	1	0	64-QAM	18.07	19.98	20.36	31.38	1.3740
10	1	25		18.67	19.82	20.81		
10	1	49		18.97	19.96	21.08		
10	25	0		17.47	18.83	19.65		
10	25	12		17.85	18.91	19.92		
10	25	25		18.03	19.05	20.08		
10	50	0		17.82	18.99	19.89		
Limit	Output power < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.28	21.76	23.41	33.75	2.3714
5	1	12		20.66	22.00	23.45		
5	1	24		20.82	22.07	23.40		
5	12	0		19.62	20.99	22.46		
5	12	7		19.64	21.16	22.56		
5	12	13		19.76	21.23	22.60		
5	25	0		19.62	21.19	22.54		
5	1	0	16-QAM	19.36	20.97	22.38	32.88	1.9409
5	1	12		19.71	21.04	22.47		
5	1	24		19.94	21.20	22.58		
5	12	0		18.57	20.00	21.48		
5	12	7		18.74	20.16	21.53		
5	12	13		18.80	20.15	21.59		
5	25	0		18.66	20.13	21.54		
5	1	0	64-QAM	18.22	19.81	20.87	31.53	1.4223
5	1	12		18.46	20.06	20.92		
5	1	24		18.83	19.96	21.23		
5	12	0		17.31	19.02	20.00		
5	12	7		17.61	19.23	20.21		
5	12	13		17.77	19.15	20.27		
5	25	0		17.60	19.13	20.11		
Limit	Output power < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.86	20.94	20.86	29.44	0.8790
20	1	49		20.78	20.84	20.83		
20	1	99		20.78	20.87	20.67		
20	50	0		19.86	19.92	20.07		
20	50	24		20.06	19.98	20.03		
20	50	50		19.94	19.99	20.01		
20	100	0		19.96	19.88	19.97		
20	1	0	16-QAM	20.47	20.46	20.39	28.97	0.7889
20	1	49		20.17	20.05	20.09		
20	1	99		20.08	19.95	20.02		
20	50	0		19.04	18.94	19.08		
20	50	24		19.03	18.95	19.03		
20	50	50		18.99	19.04	19.00		
20	100	0		19.00	19.09	18.94		
20	1	0	64-QAM	19.15	19.24	19.24	27.78	0.5998
20	1	49		19.22	19.16	19.28		
20	1	99		19.25	19.23	18.63		
20	50	0		18.00	18.09	18.11		
20	50	24		18.06	17.94	18.06		
20	50	50		17.99	17.96	18.04		
20	100	0		18.03	18.08	18.14		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.79	20.87	20.72	29.37	0.8650
15	1	37		20.66	20.82	20.76		
15	1	74		20.65	20.83	20.65		
15	36	0		19.86	19.81	19.95		
15	36	20		19.95	19.79	19.95		
15	36	39		19.93	19.91	19.96		
15	75	0		19.78	19.87	19.82		
15	1	0	16-QAM	20.44	20.29	20.42	28.94	0.7834
15	1	37		20.03	19.91	20.04		
15	1	74		20.06	19.81	19.97		
15	36	0		19.00	18.87	18.93		
15	36	20		19.02	18.80	19.01		
15	36	39		18.87	18.86	18.92		
15	75	0		18.80	19.05	18.76		
15	1	0	64-QAM	18.96	19.15	19.09	27.73	0.5929
15	1	37		19.10	19.08	19.22		
15	1	74		19.23	19.19	18.60		
15	36	0		17.96	18.04	17.98		
15	36	20		17.95	17.80	18.01		
15	36	39		17.85	17.81	17.98		
15	75	0		18.00	18.02	17.96		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.71	20.91	20.77	29.41	0.8730
10	1	25		20.62	20.66	20.82		
10	1	49		20.60	20.67	20.56		
10	25	0		19.70	19.73	20.00		
10	25	12		19.98	19.94	20.01		
10	25	25		19.82	19.95	19.87		
10	50	0		19.80	19.69	19.93		
10	1	0	16-QAM	20.29	20.43	20.39	28.93	0.7816
10	1	25		20.13	19.94	19.90		
10	1	49		20.04	19.82	19.91		
10	25	0		18.99	18.90	18.89		
10	25	12		19.01	18.91	18.95		
10	25	25		18.86	19.02	18.84		
10	50	0		19.00	18.94	18.76		
10	1	0	64-QAM	18.98	19.21	19.18	27.73	0.5929
10	1	25		19.18	18.99	19.12		
10	1	49		19.23	19.16	18.63		
10	25	0		17.80	17.92	18.05		
10	25	12		17.89	17.92	17.93		
10	25	25		17.83	17.88	17.96		
10	50	0		17.87	17.93	18.02		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.81	20.83	20.78	29.33	0.8570
5	1	12		20.63	20.79	20.69		
5	1	24		20.63	20.79	20.59		
5	12	0		19.73	19.83	19.87		
5	12	7		20.00	19.88	19.85		
5	12	13		19.74	19.84	19.98		
5	25	0		19.87	19.79	19.87		
5	1	0	16-QAM	20.35	20.41	20.39	28.91	0.7780
5	1	12		19.98	20.02	20.09		
5	1	24		19.91	19.93	19.87		
5	12	0		18.91	18.86	19.08		
5	12	7		18.83	18.80	18.91		
5	12	13		18.90	18.90	18.82		
5	25	0		18.84	18.92	18.90		
5	1	0	64-QAM	19.02	19.14	19.18	27.69	0.5875
5	1	12		19.14	19.15	19.10		
5	1	24		19.17	19.19	18.56		
5	12	0		17.97	18.05	18.10		
5	12	7		17.86	17.89	17.95		
5	12	13		17.83	17.80	17.92		
5	25	0		17.87	18.04	18.03		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	20.73	20.87	20.73	29.37	0.8650
3	1	8		20.77	20.72	20.74		
3	1	14		20.71	20.75	20.67		
3	8	0		19.71	19.92	19.95		
3	8	4		19.97	19.87	19.86		
3	8	7		19.94	19.81	19.98		
3	15	0		19.78	19.87	19.79		
3	1	0	16-QAM	20.47	20.28	20.28	28.97	0.7889
3	1	8		20.16	19.92	19.91		
3	1	14		20.00	19.85	19.88		
3	8	0		18.89	18.76	19.03		
3	8	4		19.03	18.92	18.96		
3	8	7		18.95	18.86	18.83		
3	15	0		18.86	18.96	18.85		
3	1	0	64-QAM	19.11	19.19	19.24	27.74	0.5943
3	1	8		19.07	19.09	19.17		
3	1	14		19.10	19.08	18.51		
3	8	0		17.97	18.09	17.96		
3	8	4		17.96	17.79	17.97		
3	8	7		17.80	17.89	18.04		
3	15	0		17.99	18.02	17.96		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	20.69	20.87	20.67	29.37	0.8650
1.4	1	3		20.61	20.82	20.65		
1.4	1	5		20.59	20.85	20.50		
1.4	3	0		20.66	20.76	20.55		
1.4	3	1		20.55	20.66	20.65		
1.4	3	3		20.46	20.43	20.42		
1.4	6	0		19.83	19.70	19.93		
1.4	1	0	16-QAM	19.96	19.92	20.09	28.59	0.7228
1.4	1	3		20.04	20.01	20.09		
1.4	1	5		19.88	19.95	19.92		
1.4	3	0		19.96	19.86	19.85		
1.4	3	1		19.89	19.79	19.83		
1.4	3	3		19.78	19.76	19.75		
1.4	6	0		18.81	19.08	18.83		
1.4	1	0	64-QAM	18.95	19.23	19.18	27.73	0.5929
1.4	1	3		19.19	19.16	19.09		
1.4	1	5		19.05	19.09	19.07		
1.4	3	0		18.96	18.81	18.86		
1.4	3	1		18.92	18.89	18.85		
1.4	3	3		18.75	18.96	18.79		
1.4	6	0		18.03	18.02	17.95		
Limit	EIRP < 1W			Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	22.10	22.10	21.33	34.20	2.6303
20+20	1	0	1	99		11.39	11.04	4.34		
20+20	1	99	1	0		23.90	23.10	22.80		
20+20	100	0	100	0	16-QAM	21.17	21.10	20.34	33.50	2.2387
20+20	1	0	1	99		11.50	11.17	4.40		
20+20	1	99	1	0		23.20	22.48	22.21		
20+20	100	0	100	0	64-QAM	20.60	20.06	19.50	31.88	1.5417
20+20	1	0	1	99		11.47	11.04	4.35		
20+20	1	99	1	0		21.58	19.93	19.65		
20+15	100	0	75	0	QPSK	21.46	21.58	21.09	33.63	2.3067
20+15	1	0	1	74		11.36	11.08	4.31		
20+15	1	99	1	0		23.33	22.79	22.42		
20+15	100	0	75	0	16-QAM	20.53	20.62	20.11	32.77	1.8923
20+15	1	0	1	74		11.48	11.21	4.51		
20+15	1	99	1	0		22.47	22.17	21.91		
20+15	100	0	75	0	64-QAM	20.42	19.62	19.36	31.77	1.5031
20+15	1	0	1	74		11.44	11.17	4.43		
20+15	1	99	1	0		21.47	19.51	19.23		
15+20	75	0	100	0	QPSK	21.84	21.52	21.10	33.84	2.4210
15+20	1	0	1	99		11.30	10.91	4.23		
15+20	1	74	1	0		23.54	22.65	22.34		
15+20	75	0	100	0	16-QAM	21.00	20.52	20.00	33.15	2.0654
15+20	1	0	1	99		11.42	11.11	4.36		
15+20	1	74	1	0		22.85	22.09	21.64		
15+20	75	0	100	0	64-QAM	20.46	19.59	19.08	32.10	1.6218
15+20	1	0	1	99		11.35	11.04	4.26		
15+20	1	74	1	0		21.80	19.41	19.08		
Limit	Output power < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	21.95	21.42	21.17	33.99	2.5061
20+10	1	0	1	49		11.69	11.06	4.33		
20+10	1	99	1	0		23.69	22.86	22.54		
20+10	100	0	50	0	16-QAM	21.01	20.46	20.15	33.24	2.1086
20+10	1	0	1	49		11.81	11.24	4.43		
20+10	1	99	1	0		22.94	22.33	21.94		
20+10	100	0	50	0	64-QAM	20.57	19.58	19.14	31.70	1.4791
20+10	1	0	1	49		11.68	11.21	4.35		
20+10	1	99	1	0		21.40	19.55	19.13		
10+20	50	0	100	0	QPSK	21.85	21.30	20.90	32.80	1.9055
10+20	1	0	1	99		22.11	11.06	4.30		
10+20	1	49	1	0		11.64	22.39	22.50		
10+20	50	0	100	0	16-QAM	23.79	20.33	19.83	34.09	2.5645
10+20	1	0	1	99		21.21	11.23	4.40		
10+20	1	49	1	0		11.75	21.77	21.66		
10+20	50	0	100	0	64-QAM	23.08	19.48	18.83	33.38	2.1777
10+20	1	0	1	99		20.57	11.18	4.32		
10+20	1	49	1	0		11.62	19.05	19.00		
20+5	100	0	25	0	QPSK	22.38	21.44	21.35	34.17	2.6122
20+5	1	0	1	24		12.00	11.22	4.32		
20+5	1	99	1	0		23.87	22.92	22.80		
20+5	100	0	25	0	16-QAM	21.41	20.44	20.33	33.79	2.3933
20+5	1	0	1	24		12.11	11.41	4.41		
20+5	1	99	1	0		23.49	22.37	22.26		
20+5	100	0	25	0	64-QAM	20.80	19.56	19.39	31.63	1.4555
20+5	1	0	1	24		12.00	11.35	4.36		
20+5	1	99	1	0		21.33	19.59	19.47		
Limit	Output power < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	22.20	21.18	20.78	34.01	2.5177
5+20	1	0	1	99		12.06	11.18	4.27		
5+20	1	24	1	0		23.71	22.53	22.40		
5+20	25	0	100	0	16-QAM	21.17	20.30	19.83	33.50	2.2387
5+20	1	0	1	99		12.12	11.36	4.43		
5+20	1	24	1	0		23.20	22.02	21.75		
5+20	25	0	100	0	64-QAM	20.38	19.41	18.88	30.68	1.1695
5+20	1	0	1	99		12.04	11.28	4.34		
5+20	1	24	1	0		20.33	19.26	18.83		
15+10	75	0	50	0	QPSK	22.25	21.28	21.18	34.18	2.6182
15+10	1	0	1	49		12.00	11.20	4.27		
15+10	1	74	1	0		23.88	22.71	22.58		
15+10	75	0	50	0	16-QAM	21.33	20.33	20.02	33.73	2.3605
15+10	1	0	1	49		12.13	11.34	4.38		
15+10	1	74	1	0		23.43	22.18	22.05		
15+10	75	0	50	0	64-QAM	20.94	19.44	19.13	32.15	1.6406
15+10	1	0	1	49		12.04	11.35	4.34		
15+10	1	74	1	0		21.85	19.39	19.55		
10+15	50	0	75	0	QPSK	22.36	21.25	20.82	34.09	2.5645
10+15	1	0	1	74		12.00	11.64	4.22		
10+15	1	49	1	0		23.79	22.50	22.43		
10+15	50	0	75	0	16-QAM	21.40	20.27	19.95	33.49	2.2336
10+15	1	0	1	74		12.08	11.76	4.39		
10+15	1	49	1	0		23.19	21.76	21.90		
10+15	50	0	75	0	64-QAM	20.68	19.28	19.13	31.80	1.5136
10+15	1	0	1	74		12.06	11.78	4.33		
10+15	1	49	1	0		21.50	19.04	19.16		
Limit	Output power < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
15+15	75	0	75	0	QPSK	22.36	21.43	20.91	34.17	2.6122
15+15	1	0	1	74		11.47	10.98	4.15		
15+15	1	74	1	0		23.87	22.79	22.40		
15+15	75	0	75	0	16-QAM	21.48	20.41	19.95	33.68	2.3335
15+15	1	0	1	74		11.67	11.08	4.32		
15+15	1	74	1	0		23.38	22.05	21.87		
15+15	75	0	75	0	64-QAM	20.52	19.42	19.22	32.39	1.7338
15+15	1	0	1	74		11.54	11.04	4.27		
15+15	1	74	1	0		22.09	19.31	19.18		
Limit	Output power < 2W					Result			Pass	



LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	19.63	19.77	19.70	29.96	0.9908
10+10	1	0	1	49		11.13	11.11	11.18		
10+10	1	49	1	0		21.40	21.46	21.45		
10+10	50	0	50	0	16-QAM	18.60	18.74	18.76	29.68	0.9290
10+10	1	0	1	49		11.57	11.65	11.58		
10+10	1	49	1	0		20.91	21.06	21.18		
10+10	50	0	50	0	64-QAM	18.61	18.73	18.80	28.54	0.7145
10+10	1	0	1	49		11.53	11.44	11.42		
10+10	1	49	1	0		19.93	19.94	20.04		
15+5	75	0	25	0	QPSK	19.62	19.74	19.66	29.94	0.9863
15+5	1	0	1	24		11.04	10.97	11.13		
15+5	1	74	1	0		21.43	21.44	21.42		
15+5	75	0	25	0	16-QAM	18.68	18.76	18.68	29.63	0.9183
15+5	1	0	1	24		11.57	11.58	11.60		
15+5	1	74	1	0		21.03	21.13	21.00		
15+5	75	0	25	0	64-QAM	18.64	18.77	18.73	28.51	0.7096
15+5	1	0	1	24		11.45	11.04	11.41		
15+5	1	74	1	0		19.73	20.01	19.97		
5+15	25	0	75	0	QPSK	19.63	19.65	19.68	29.93	0.9840
5+15	1	0	1	74		11.17	11.05	11.10		
5+15	1	24	1	0		21.42	21.40	21.43		
5+15	25	0	75	0	16-QAM	18.60	18.75	18.67	29.53	0.8974
5+15	1	0	1	74		11.69	11.54	11.59		
5+15	1	24	1	0		20.88	21.03	21.02		
5+15	25	0	75	0	64-QAM	18.65	18.67	18.73	28.36	0.6855
5+15	1	0	1	74		11.49	11.40	11.53		
5+15	1	24	1	0		19.79	19.82	19.86		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+5	50	0	25	0	QPSK	19.30	19.45	19.36	29.78	0.9506
10+5	1	0	1	24		11.27	11.24	11.22		
10+5	1	49	1	0		21.14	21.28	21.23		
10+5	50	0	25	0	16-QAM	18.30	18.47	18.51	29.24	0.8395
10+5	1	0	1	24		11.71	11.71	11.85		
10+5	1	49	1	0		20.65	20.73	20.74		
10+5	50	0	25	0	64-QAM	18.27	18.44	18.36	28.15	0.6531
10+5	1	0	1	24		11.63	11.65	11.62		
10+5	1	49	1	0		19.55	19.06	19.65		
5+10	25	0	50	0	QPSK	19.33	19.40	19.41	29.88	0.9727
5+10	1	0	1	49		11.36	11.27	11.28		
5+10	1	24	1	0		21.25	21.38	21.35		
5+10	25	0	50	0	16-QAM	18.35	18.47	18.39	29.38	0.8670
5+10	1	0	1	49		11.86	11.73	11.67		
5+10	1	24	1	0		20.72	20.88	20.80		
5+10	25	0	50	0	64-QAM	18.24	18.41	18.42	28.16	0.6546
5+10	1	0	1	49		11.62	11.63	11.66		
5+10	1	24	1	0		19.65	19.38	19.66		
5+5	25	0	25	0	QPSK	19.39	19.41	19.43	29.89	0.9750
5+5	1	0	1	24		11.28	11.30	11.23		
5+5	1	24	1	0		21.20	21.39	21.32		
5+5	25	0	25	0	16-QAM	18.39	18.51	18.40	29.35	0.8610
5+5	1	0	1	24		11.77	11.78	11.69		
5+5	1	24	1	0		20.72	20.85	20.67		
5+5	25	0	25	0	64-QAM	18.37	18.46	18.43	28.16	0.6546
5+5	1	0	1	24		11.65	11.65	11.58		
5+5	1	24	1	0		19.42	19.66	19.54		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	19.66	19.65	19.71	29.88	0.9727
20+20	1	0	1	99		13.16	13.02	12.99		
20+20	1	99	1	0		21.37	21.38	21.36		
20+20	100	0	100	0	16-QAM	18.76	18.66	18.69	29.46	0.8831
20+20	1	0	1	99		13.52	13.55	13.41		
20+20	1	99	1	0		20.96	20.89	20.92		
20+20	100	0	100	0	64-QAM	18.63	18.68	18.72	28.47	0.7031
20+20	1	0	1	99		13.48	13.38	13.32		
20+20	1	99	1	0		19.83	19.97	19.85		
20+15	100	0	75	0	QPSK	19.55	19.54	19.60	29.87	0.9705
20+15	1	0	1	74		12.97	12.88	12.95		
20+15	1	74	1	0		21.28	21.35	21.37		
20+15	100	0	75	0	16-QAM	18.53	18.51	18.56	29.42	0.8750
20+15	1	0	1	74		13.46	13.44	13.37		
20+15	1	74	1	0		20.59	20.92	20.82		
20+15	100	0	75	0	64-QAM	18.58	18.63	18.61	28.30	0.6761
20+15	1	0	1	74		13.40	12.86	13.32		
20+15	1	74	1	0		19.80	19.79	19.74		
15+20	75	0	100	0	QPSK	19.52	19.47	19.59	29.84	0.9638
15+20	1	0	1	99		12.95	12.88	12.94		
15+20	1	74	1	0		21.26	21.34	21.33		
15+20	75	0	100	0	16-QAM	18.51	18.50	18.53	29.46	0.8831
15+20	1	0	1	99		13.50	13.35	13.28		
15+20	1	74	1	0		20.81	20.81	20.96		
15+20	75	0	100	0	64-QAM	18.49	18.53	18.57	28.28	0.6730
15+20	1	0	1	99		13.29	13.21	13.30		
15+20	1	74	1	0		19.73	19.78	19.76		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	19.77	19.79	19.85	29.87	0.9705
20+10	1	0	1	49		13.21	13.13	13.15		
20+10	1	99	1	0		21.00	21.37	20.91		
20+10	100	0	50	0	16-QAM	20.92	18.84	18.80	29.50	0.8913
20+10	1	0	1	49		13.72	13.66	13.55		
20+10	1	99	1	0		20.43	21.00	20.30		
20+10	100	0	50	0	64-QAM	18.84	18.84	18.86	28.33	0.6808
20+10	1	0	1	49		13.65	13.16	13.60		
20+10	1	99	1	0		17.00	19.83	16.86		
10+20	50	0	100	0	QPSK	19.45	19.44	19.49	29.85	0.9661
10+20	1	0	1	99		12.97	12.87	12.90		
10+20	1	49	1	0		21.14	21.32	21.35		
10+20	50	0	100	0	16-QAM	18.45	18.49	18.57	29.40	0.8710
10+20	1	0	1	99		13.40	13.35	13.32		
10+20	1	49	1	0		20.74	20.84	20.90		
10+20	50	0	100	0	64-QAM	18.51	18.52	18.63	28.35	0.6839
10+20	1	0	1	99		13.31	13.21	13.37		
10+20	1	49	1	0		19.70	19.72	19.85		
20+5	100	0	25	0	QPSK	19.37	19.54	19.50	29.87	0.9705
20+5	1	0	1	24		12.87	12.76	12.90		
20+5	1	99	1	0		21.31	21.37	21.29		
20+5	100	0	25	0	16-QAM	18.44	18.57	18.56	29.30	0.8511
20+5	1	0	1	24		13.39	13.26	13.30		
20+5	1	99	1	0		20.80	20.79	20.74		
20+5	100	0	25	0	64-QAM	18.48	18.55	18.51	28.33	0.6808
20+5	1	0	1	24		13.17	13.16	13.36		
20+5	1	99	1	0		19.83	19.82	19.73		
Limit	EIRP < 1W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG082512-01A

LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	19.37	19.48	19.52	29.87	0.9705
5+20	1	0	1	99		12.85	12.76	12.83		
5+20	1	24	1	0		21.28	21.36	21.37		
5+20	25	0	100	0	16-QAM	18.53	18.47	18.57	29.42	0.8750
5+20	1	0	1	99		13.45	13.40	13.40		
5+20	1	24	1	0		20.92	20.80	20.92		
5+20	25	0	100	0	64-QAM	18.49	18.45	18.58	28.40	0.6918
5+20	1	0	1	99		13.26	13.14	13.26		
5+20	1	24	1	0		19.67	19.72	19.90		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	75	0	50	0	QPSK	19.36	19.49	19.51	29.84	0.9638
15+10	1	0	1	49		12.86	12.75	12.88		
15+10	1	74	1	0		21.12	21.34	21.23		
15+10	75	0	50	0	16-QAM	18.43	18.45	18.52	29.29	0.8492
15+10	1	0	1	49		13.42	13.32	13.39		
15+10	1	74	1	0		20.59	20.79	20.71		
15+10	75	0	50	0	64-QAM	18.44	18.53	18.51	28.23	0.6653
15+10	1	0	1	49		13.30	13.20	13.25		
15+10	1	74	1	0		19.73	19.73	19.59		
10+15	50	0	75	0	QPSK	19.41	19.41	19.57	29.85	0.9661
10+15	1	0	1	74		12.95	12.86	12.94		
10+15	1	49	1	0		21.15	21.35	21.33		
10+15	50	0	75	0	16-QAM	18.35	18.50	18.51	29.40	0.8710
10+15	1	0	1	74		13.37	13.36	13.44		
10+15	1	49	1	0		20.44	20.90	20.88		
10+15	50	0	75	0	64-QAM	18.40	18.46	18.62	28.32	0.6792
10+15	1	0	1	74		13.34	13.22	13.25		
10+15	1	49	1	0		19.63	19.75	19.82		
15+15	75	0	75	0	QPSK	19.52	19.54	19.50	29.80	0.9550
15+15	1	0	1	74		12.91	12.83	12.92		
15+15	1	74	1	0		21.30	21.29	21.21		
15+15	75	0	75	0	16-QAM	18.51	18.46	18.46	29.33	0.8570
15+15	1	0	1	74		13.39	13.24	13.29		
15+15	1	74	1	0		20.73	20.77	20.83		
15+15	75	0	75	0	64-QAM	18.49	18.54	18.55	28.20	0.6607
15+15	1	0	1	74		13.36	13.31	13.10		
15+15	1	74	1	0		19.60	19.70	19.67		
Limit	EIRP < 1W					Result			Pass	



Appendix B. Test Results of Radiated Test

<Ant. 8>

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	3702	-54.45	-13	-41.45	-72.38	-65.66	1.41	12.62	H
	5556	-47.85	-13	-34.85	-71	-59.41	1.74	13.30	H
	7404	-47.13	-13	-34.13	-73.94	-56.45	1.94	11.25	H
									H
									H
									H
	3702	-54.70	-13	-41.70	-72.78	-65.91	1.41	12.62	V
	5556	-50.65	-13	-37.65	-73.34	-62.21	1.74	13.30	V
	7404	-47.32	-13	-34.32	-73.98	-56.64	1.94	11.25	V
									V
									V
									V
Middle	3744	-54.60	-13	-41.60	-72.72	-65.82	1.42	12.65	H
	5616	-50.00	-13	-37.00	-73.09	-61.56	1.74	13.30	H
	7482	-47.33	-13	-34.33	-73.78	-56.48	1.98	11.13	H
									H
									H
									H
	3744	-53.52	-13	-40.52	-71.84	-64.74	1.42	12.65	V
	5616	-50.75	-13	-37.75	-73.5	-62.31	1.74	13.30	V
	7482	-47.30	-13	-34.30	-73.69	-56.45	1.98	11.13	V
									V
									V
									V



Highest	3792	-54.08	-13	-41.08	-72.41	-65.32	1.44	12.68	H
	5688	-50.01	-13	-37.01	-73.48	-61.58	1.73	13.30	H
	7584	-48.49	-13	-35.49	-74.41	-57.61	2.00	11.12	H
									H
									H
									H
									H
	3792	-54.16	-13	-41.16	-72.75	-65.40	1.44	12.68	V
	5688	-51.96	-13	-38.96	-74.9	-63.53	1.73	13.30	V
	7584	-48.41	-13	-35.41	-74.29	-57.53	2.00	11.12	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	-57.07	-13	-44.07	-72.99	-68.03	1.35	12.31	H
	5135	-52.75	-13	-39.75	-74.7	-63.89	1.65	12.79	H
	6843	-49.00	-13	-36.00	-74.37	-59.38	1.74	12.12	H
									H
									H
									H
									H
	3420	-56.52	-13	-43.52	-72.86	-67.48	1.35	12.31	V
	5135	-52.53	-13	-39.53	-74.23	-63.67	1.65	12.79	V
	6843	-49.09	-13	-36.09	-74.06	-59.47	1.74	12.12	V
									V
									V
									V
									V
Middle	3448	-56.39	-13	-43.39	-72.59	-67.41	1.35	12.38	H
	5170	-52.02	-13	-39.02	-73.97	-63.20	1.65	12.84	H
	6892	-48.23	-13	-35.23	-73.85	-58.55	1.74	12.05	H
									H
									H
									H
									H
	3448	-56.20	-13	-43.20	-72.79	-67.22	1.35	12.38	V
	5170	-52.56	-13	-39.56	-74.3	-63.74	1.65	12.84	V
	6892	-48.86	-13	-35.86	-74.05	-59.18	1.74	12.05	V
									V
									V
									V
									V



Highest	3469	-55.88	-13	-42.88	-72.28	-66.95	1.35	12.43	H
	5205	-52.38	-13	-39.38	-74.33	-63.60	1.66	12.89	H
	6941	-47.80	-13	-34.80	-73.66	-58.05	1.73	11.98	H
									H
									H
									H
									H
	3469	-55.69	-13	-42.69	-72.47	-66.76	1.35	12.43	V
	5205	-52.89	-13	-39.89	-74.67	-64.11	1.66	12.89	V
	6941	-48.73	-13	-35.73	-74.13	-58.98	1.73	11.98	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	5002	-52.23	-13	-39.23	-74.25	-63.22	1.61	12.60	H
	7503	-46.74	-13	-33.74	-73.09	-55.85	1.99	11.10	H
	10004	-44.46	-13	-31.46	-74.02	-53.36	2.40	11.30	H
									H
									H
									H
									H
	5002	-52.36	-13	-39.36	-73.93	-63.35	1.61	12.60	V
	7503	-47.25	-13	-34.25	-73.57	-56.36	1.99	11.10	V
	10004	-43.42	-13	-30.42	-73.77	-52.32	2.40	11.30	V
									V
									V
									V
									V
Middle	5052	-51.84	-13	-38.84	-73.84	-62.89	1.62	12.67	H
	7578	-48.12	-13	-35.12	-74.08	-57.23	2.00	11.12	H
	10104	-44.04	-13	-31.04	-73.86	-52.86	2.40	11.22	H
									H
									H
									H
									H
	5052	-52.18	-13	-39.18	-73.81	-63.23	1.62	12.67	V
	7578	-48.19	-13	-35.19	-74.11	-57.30	2.00	11.12	V
	10104	-43.63	-13	-30.63	-74.02	-52.45	2.40	11.22	V
									V
									V
									V
									V



Highest	5102	-51.93	-13	-38.93	-73.9	-63.04	1.64	12.74	H
	7653	-47.62	-13	-34.62	-73.49	-56.74	2.01	11.13	H
	10204	-43.91	-13	-30.91	-73.98	-52.65	2.40	11.14	H
									H
									H
									H
									H
	5102	-52.49	-13	-39.49	-74.16	-63.60	1.64	12.74	V
	7653	-47.73	-13	-34.73	-73.48	-56.85	2.01	11.13	V
	10204	-43.35	-13	-30.35	-73.77	-52.09	2.40	11.14	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	4994	-51.54	-13	-38.54	-73.55	-62.53	1.61	12.60	H
	7491	-47.27	-13	-34.27	-73.67	-56.40	1.99	11.11	H
	9988	-44.25	-13	-31.25	-73.84	-53.16	2.40	11.30	H
									H
									H
									H
									H
	4994	-52.29	-13	-39.29	-73.84	-63.28	1.61	12.60	V
	7491	-47.02	-13	-34.02	-73.38	-56.15	1.99	11.11	V
	9988	-43.66	-13	-30.66	-74.01	-52.57	2.40	11.30	V
									V
									V
									V
									V
Middle	5168	-52.46	-13	-39.46	-74.41	-63.64	1.65	12.84	H
	7752	-47.91	-13	-34.91	-73.82	-57.04	2.03	11.15	H
	10336	-43.77	-13	-30.77	-74.17	-52.41	2.39	11.03	H
									H
									H
									H
									H
	5168	-52.04	-13	-39.04	-73.78	-63.22	1.65	12.84	V
	7752	-48.20	-13	-35.20	-73.87	-57.33	2.03	11.15	V
	10336	-43.26	-13	-30.26	-73.73	-51.90	2.39	11.03	V
									V
									V
									V
									V



Highest	5340	-52.03	-13	-39.03	-74.45	-63.41	1.70	13.08	H
	8016	-46.34	-13	-33.34	-73.5	-55.51	2.06	11.23	H
	10683	-42.87	-13	-29.87	-73.73	-51.28	2.49	10.90	H
									H
									H
									H
									H
	5340	-52.55	-13	-39.55	-74.63	-63.93	1.70	13.08	V
	8016	-46.38	-13	-33.38	-73.43	-55.55	2.06	11.23	V
	10683	-43.20	-13	-30.20	-73.82	-51.61	2.49	10.90	V
									V
									V
									V
									V

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



<Ant. 8>

LTE Band 66B

LTE Band 66B / 10MHz+10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3441	-56.75	-13	-43.75	-72.88	-67.76	1.35	12.36	H
	5156	-52.54	-13	-39.54	-74.49	-63.71	1.65	12.82	H
	6878	-48.39	-13	-35.39	-73.94	-58.72	1.74	12.07	H
									H
									H
									H
	3441	-56.22	-13	-43.22	-72.75	-67.23	1.35	12.36	V
	5156	-52.40	-13	-39.40	-74.13	-63.57	1.65	12.82	V
	6878	-49.11	-13	-36.11	-74.24	-59.44	1.74	12.07	V
									V
									V
									V
Middle	3462	-56.09	-13	-43.09	-72.42	-67.15	1.35	12.41	H
	5198	-52.63	-13	-39.63	-74.56	-63.85	1.66	12.88	H
	6927	-48.54	-13	-35.54	-74.33	-58.81	1.73	12.00	H
									H
									H
									H
	3462	-56.18	-13	-43.18	-72.9	-67.24	1.35	12.41	V
	5198	-52.80	-13	-39.80	-74.57	-64.02	1.66	12.88	V
	6927	-48.97	-13	-35.97	-74.31	-59.24	1.73	12.00	V
									V
									V
									V



Highest	3490	-56.21	-13	-43.21	-72.8	-67.33	1.36	12.48	H
	5233	-52.62	-13	-39.62	-74.66	-63.88	1.67	12.93	H
	6976	-47.81	-13	-34.81	-73.86	-58.02	1.72	11.93	H
									H
									H
									H
									H
	3490	-55.93	-13	-42.93	-72.89	-67.05	1.36	12.48	V
	5233	-52.63	-13	-39.63	-74.47	-63.89	1.67	12.93	V
	6976	-48.17	-13	-35.17	-73.73	-58.38	1.72	11.93	V
									V
									V
									V
									V

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

**LTE Band 66C**

LTE Band 66C / 20MHz+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	3455	-56.54	-13	-43.54	-72.79	-66.97	1.83	12.27	H
	5184	-52.73	-13	-39.73	-74.67	-62.58	2.28	12.14	H
	6913	-48.57	-13	-35.57	-74.29	-57.17	2.39	10.99	H
									H
									H
									H
									H
	3455	-55.94	-13	-42.94	-72.58	-66.37	1.83	12.27	V
	5184	-53.12	-13	-40.12	-74.88	-62.97	2.28	12.14	V
	6913	-49.19	-13	-36.19	-74.46	-57.79	2.39	10.99	V
									V
									V
									V
									V
Middle	3462	-56.11	-13	-43.11	-72.44	-66.56	1.84	12.29	H
	5191	-52.68	-13	-39.68	-74.62	-62.54	2.28	12.14	H
	6927	-48.51	-13	-35.51	-74.3	-57.09	2.40	10.97	H
									H
									H
									H
									H
	3462	-56.09	-13	-43.09	-72.81	-66.54	1.84	12.29	V
	5191	-52.86	-13	-39.86	-74.62	-62.72	2.28	12.14	V
	6927	-48.92	-13	-35.92	-74.26	-57.50	2.40	10.97	V
									V
									V
									V
									V



Highest	3469	-56.28	-13	-43.28	-72.68	-66.74	1.84	12.31	H
	5205	-52.49	-13	-39.49	-74.44	-62.36	2.28	12.14	H
	6934	-47.63	-13	-34.63	-73.46	-56.20	2.40	10.97	H
									H
									H
									H
									H
	3469	-56.18	-13	-43.18	-72.96	-66.64	1.84	12.31	V
	5205	-52.83	-13	-39.83	-74.61	-62.70	2.28	12.14	V
	6934	-48.57	-13	-35.57	-73.95	-57.14	2.40	10.97	V
									V
									V
									V
									V

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

**LTE Band 41C**

LTE Band 41C / 20MHz+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	5029	-52.14	-13	-39.14	-74.14	-63.16	1.62	12.64	H
	7544	-47.01	-13	-34.01	-73.15	-56.12	2.00	11.11	H
	10059	-44.21	-13	-31.21	-73.92	-53.06	2.40	11.25	H
									H
									H
									H
									H
	5029	-52.46	-13	-39.46	-74.05	-63.48	1.62	12.64	V
	7544	-47.27	-13	-34.27	-73.37	-56.38	2.00	11.11	V
	10059	-43.77	-13	-30.77	-74.14	-52.62	2.40	11.25	V
									V
									V
									V
									V
Middle	5184	-52.81	-13	-39.81	-74.75	-64.01	1.66	12.86	H
	7776	-47.68	-13	-34.68	-73.6	-56.81	2.03	11.16	H
	10368	-43.15	-13	-30.15	-73.64	-51.76	2.39	11.01	H
									H
									H
									H
									H
	5184	-52.80	-13	-39.80	-74.56	-64.00	1.66	12.86	V
	7776	-47.53	-13	-34.53	-73.18	-56.66	2.03	11.16	V
	10368	-43.18	-13	-30.18	-73.67	-51.79	2.39	11.01	V
									V
									V
									V
									V



Highest	5338	-52.29	-13	-39.29	-74.71	-63.67	1.70	13.07	H
	8007	-46.21	-13	-33.21	-73.4	-55.36	2.06	11.21	H
	10676	-42.89	-13	-29.89	-73.76	-51.31	2.48	10.90	H
									H
									H
									H
									H
	5338	-52.43	-13	-39.43	-74.51	-63.81	1.70	13.07	V
	8007	-46.35	-13	-33.35	-73.41	-55.50	2.06	11.21	V
	10676	-43.31	-13	-30.31	-73.93	-51.73	2.48	10.90	V
									V
									V
									V
									V

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