

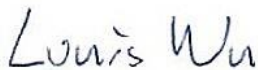


FCC RADIO TEST REPORT

FCC ID : VUIMD100
Equipment : Module
Brand Name : PEGATRON
Model Name : MD100-Q62
Applicant : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU
DISTRICT, TAIPEI CITY, Taiwan
Manufacturer : PEGATRON CORPORATION
5F., NO. 76, LIGONG ST., BEITOU
DISTRICT, TAIPEI CITY, Taiwan
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Mar. 16, 2023 and testing was performed from Apr. 17, 2023 to Jun. 08, 2023. 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



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	Issue Date
FG2O0623-01A	01	Initial issue of report	May 24, 2023
FG2O0623-01A	02	Revise appendix B This report is an updated version, replacing the report issued on May 24, 2023.	Jun. 08, 2023



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)(5)	Effective Radiated Power (Band 5)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (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	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§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 66) (Band 71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (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 66) (Band 71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note



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 66) (Band 71)	Pass	6.26 dB under the limit at 1560.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 41)		

Note:

1. The certified module (model: VUIMD100).
2. The conducted power has been verified to be consistent with the original modular certification, therefore, the conducted signal test will be re-used.
3. To perform a spot check on the radiated spurious emission of the host.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sheng Kuo**Report Producer: Lucy Wu**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs LTE/5G NR.	
Antenna Type WWAN: PIFA Antenna	
Installed into Host	Equipment Name: 5G Dongle Brand Name: PEGATRON Model Name: MD100-Q62
Antenna Gain	<Ant. 0> LTE Band 2: -0.08 dBi LTE Band 4: -0.41 dBi LTE Band 41: 2.12 dBi LTE Band 66: -0.41 dBi <Ant. 3> LTE Band 2: 2.62 dBi LTE Band 5: -2.35 dBi LTE Band 12: -2.29 dBi LTE Band 13: -2.28 dBi LTE Band 66: 2.75 dBi LTE Band 71: -2.05 dBi

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. LTE Band 2 and Band 66 support Ant.0 & Ant.3, with Ant.0 being the main transmitter and Ant.3 as the secondary transmitter. Ant.3 only used for ENDC transmission, and the module report only tests Ant.0. Therefore, this report only verifies Ant.0 for LTE Band 2 and Band 66.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



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	03CH07-HY
Test Engineer	Cotty Hsu	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (°C)	22.2~23.1	22.6~25.8
Relative Humidity (%)	51~56	53.2~63.4

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

FCC Designation No.: TW1190

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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

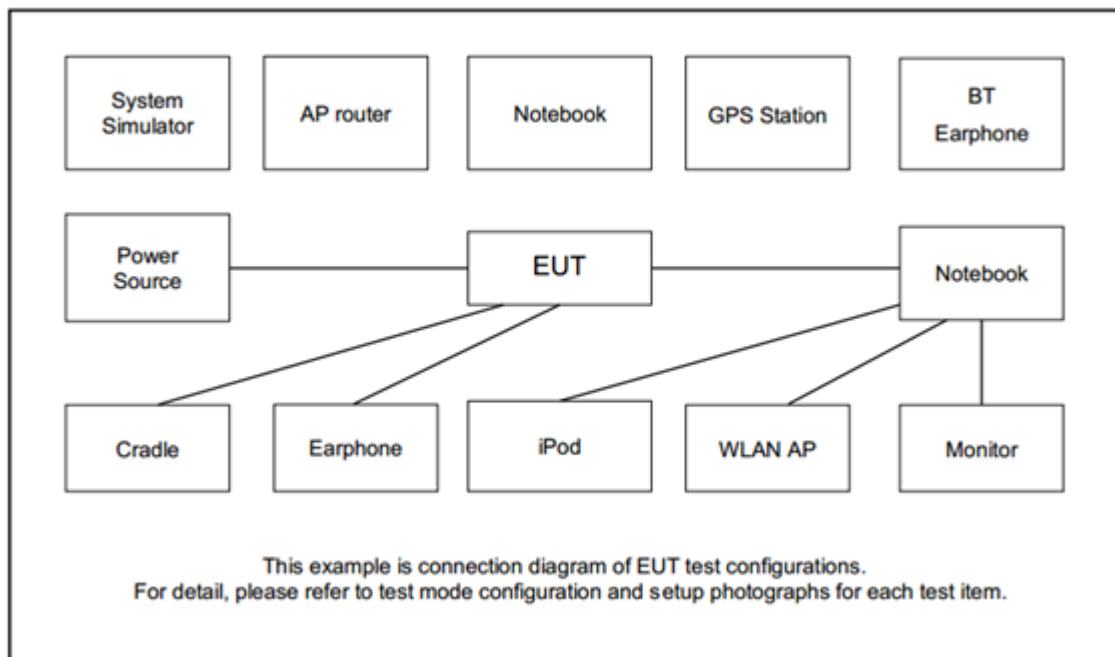
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	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	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	Max. Power					
	4	v	v	v	v	v	v	v	v	v	v						
	5	v	v	v	v	-	-	v	v	v	v						
	12	v	v	v	v	-	-	v	v	v	v						
	13	-	-	v	v	-	-	v	v	v	v						
	41	-	-	v	v	v	v	v	v	v	v						
	66	v	v	v	v	v	v	v	v	v	v						
	71	-	-	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	256QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2						v	v				v			v	v	v
	4	Covered by LTE Band 66															
	5				v	-	-	v				v			v	v	v
	12				v	-	-	v				v			v	v	v
	13	-	-	v	v	-	-	v				v			v	v	v
	41	-	-				v	v				v			v	v	v
	66						v	v				v			v	v	v
	71	-	-				v	v				v			v	v	v
Remark	- The mark "v" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - 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. - Wider operating range bandwidth covers narrower one when the power is higher or the same.																

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	256QAM	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
E.I.R.P	41_CA	v	v	v	-	v	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	41_CA	v			-							v				v			v	v	v
Remark	- The mark "v" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - 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.	Adapter	PHILIPS	DLP6341C	N/A	N/A	N/A



2.4 Frequency List of Low/Middle/High Channels

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

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



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

LTE Band 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 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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5



LTE Band 41C Channel and Frequency List_CA					
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	2583.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
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 41C Channel and Frequency List_CA					
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

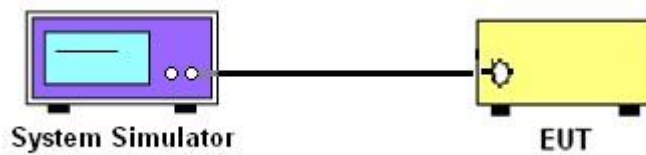
3 Conducted Test Items

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 71

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

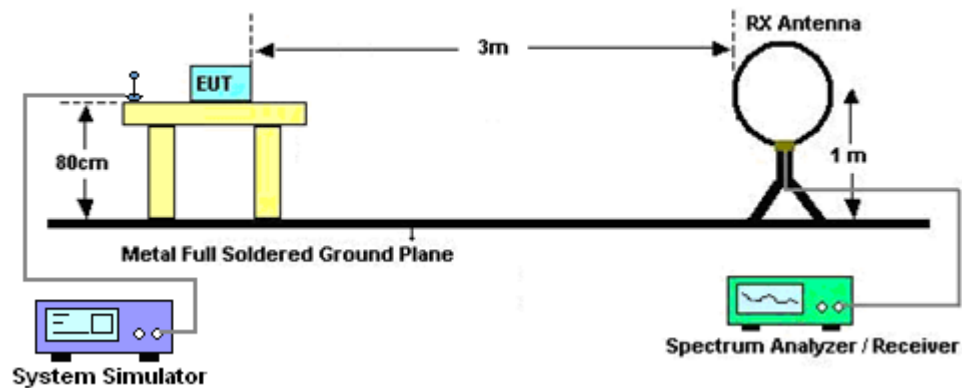
4 Radiated Test Items

4.1 Measuring Instruments

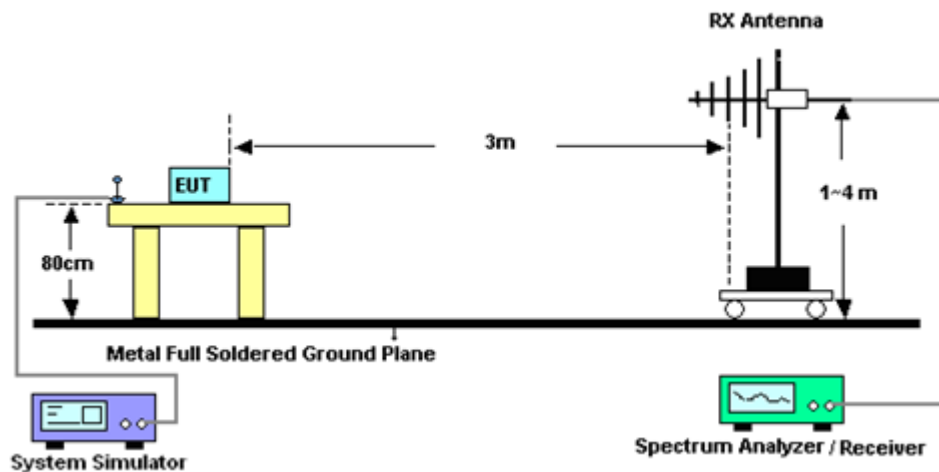
See list of measuring instruments of this test report.

4.1.1 Test Setup

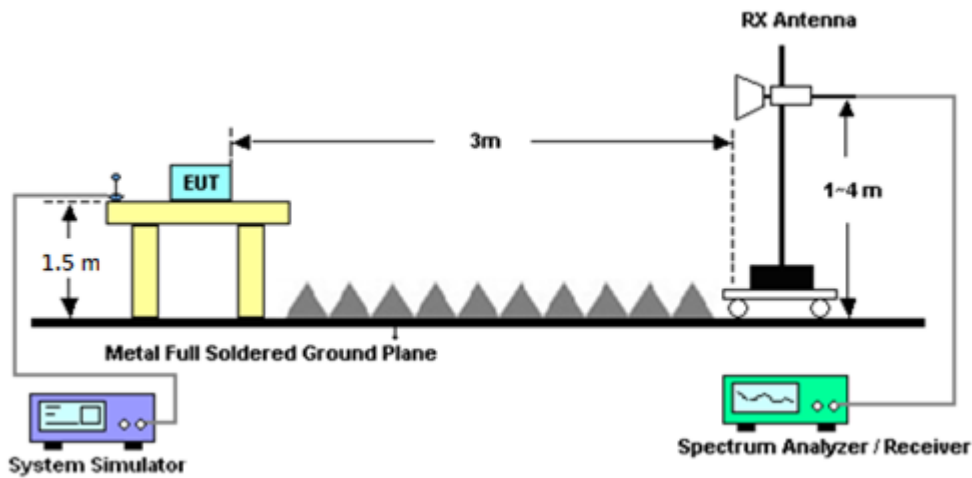
For radiated test below 30MHz



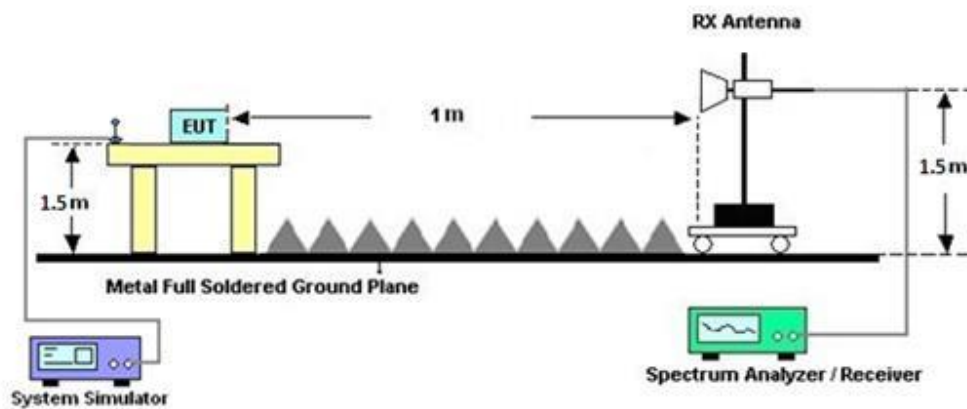
For radiated test from 30MHz to 1GHz



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 adequate comparison measurement 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 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 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)

For LTE Band 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	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 25, 2023~ Jun. 08, 2023	Sep. 19, 2023	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 23, 2023	Apr. 25, 2023~ Jun. 08, 2023	Apr. 22, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Apr. 25, 2023~ Jun. 08, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 20, 2023	Apr. 25, 2023~ Jun. 08, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Apr. 25, 2023~ Jun. 08, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 24, 2023	Apr. 25, 2023~ Jun. 08, 2023	Mar. 23, 2024	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Apr. 25, 2023~ Jun. 08, 2023	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2023	Apr. 25, 2023~ Jun. 08, 2023	Mar. 27, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ Jun. 08, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ Jun. 08, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 22, 2023	Apr. 25, 2023~ Jun. 08, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 22, 2023	Apr. 25, 2023~ Jun. 08, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Apr. 25, 2023~ Jun. 08, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Apr. 25, 2023~ Jun. 08, 2023	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Apr. 25, 2023~ Jun. 08, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Apr. 25, 2023~ Jun. 08, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Apr. 25, 2023~ Jun. 08, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Apr. 25, 2023~ Jun. 08, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 14, 2023	Apr. 25, 2023~ Jun. 08, 2023	Mar. 13, 2024	Radiation (03CH07-HY)
Horn Antenna	ETS-Lindgren	3117	00143261	1GHz~18GHz	Feb. 24, 2023	Apr. 25, 2023~ Jun. 08, 2023	Feb. 23, 2024	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 24, 2022	Apr. 25, 2023~ Jun. 08, 2023	Nov. 23, 2023	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	May 23, 2022	Apr. 25, 2023~ Jun. 08, 2023	May 22, 2023	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Jan. 11, 2023	Apr. 25, 2023~ Jun. 08, 2023	Jan. 10, 2024	Radiation (03CH07-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Apr. 17, 2023~ Apr. 28, 2023	Oct. 12, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	Apr. 17, 2023~ Apr. 28, 2023	Jan. 05, 2024	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.25 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.50 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.08 dB
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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 = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.91	22.92	22.85	22.84	0.1923
20	1	49		22.81	22.76	22.77		
20	1	99		22.77	22.76	22.88		
20	50	0		21.83	21.89	21.88		
20	50	24		21.81	21.78	21.87		
20	50	50		21.77	21.78	21.81		
20	100	0		21.78	21.80	21.87		
20	1	0	16-QAM	22.12	22.11	22.06	22.12	0.1629
20	1	49		22.17	22.14	22.20		
20	1	99		22.14	22.10	22.13		
20	50	0		20.84	20.92	20.89		
20	50	24		20.82	20.81	20.90		
20	50	50		20.80	20.81	20.84		
20	100	0		20.81	20.82	20.89		
20	1	0	64-QAM	21.08	21.00	20.97	21.02	0.1265
20	1	49		21.04	21.10	21.03		
20	1	99		20.99	21.01	21.06		
20	50	0		19.84	19.91	19.88		
20	50	24		19.82	19.82	19.89		
20	50	50		19.79	19.80	19.84		
20	100	0		19.80	19.81	19.89		
20	1	0	256-QAM	18.28	18.33	18.26	18.25	0.0668
20	1	49		18.27	18.27	18.15		
20	1	99		18.20	18.18	18.01		
20	50	0		18.23	18.19	18.11		
20	50	24		18.10	18.07	18.00		
20	50	50		18.17	18.15	18.04		
20	100	0		18.08	18.09	17.95		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.88	22.82	22.80	22.80	0.1905
15	1	37		22.79	22.72	22.75		
15	1	74		22.71	22.74	22.88		
15	36	0		21.73	21.86	21.76		
15	36	20		21.81	21.75	21.87		
15	36	39		21.69	21.75	21.77		
15	75	0		21.73	21.76	21.84		
15	1	0	16-QAM	22.04	22.05	22.05	22.11	0.1626
15	1	37		22.16	22.12	22.19		
15	1	74		22.06	22.07	22.03		
15	36	0		20.80	20.91	20.81		
15	36	20		20.80	20.76	20.89		
15	36	39		20.75	20.76	20.83		
15	75	0		20.73	20.81	20.85		
15	1	0	64-QAM	21.07	20.96	20.88	20.99	0.1256
15	1	37		20.99	21.07	20.93		
15	1	74		20.93	20.95	21.03		
15	36	0		19.84	19.86	19.81		
15	36	20		19.77	19.77	19.81		
15	36	39		19.73	19.77	19.79		
15	75	0		19.76	19.81	19.89		
15	1	0	256-QAM	18.28	18.27	18.22	18.20	0.0661
15	1	37		18.27	18.23	18.11		
15	1	74		18.20	18.14	17.98		
15	36	0		18.21	18.16	18.10		
15	36	20		18.07	18.05	17.98		
15	36	39		18.17	18.12	17.97		
15	75	0		18.00	18.04	17.86		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.88	22.91	22.79	22.83	0.1919
10	1	25		22.75	22.73	22.72		
10	1	49		22.72	22.70	22.86		
10	25	0		21.74	21.86	21.86		
10	25	12		21.78	21.76	21.84		
10	25	25		21.70	21.77	21.75		
10	50	0		21.74	21.73	21.87		
10	1	0	16-QAM	22.03	22.06	22.01	22.08	0.1614
10	1	25		22.16	22.10	22.14		
10	1	49		22.07	22.00	22.04		
10	25	0		20.76	20.83	20.81		
10	25	12		20.79	20.76	20.87		
10	25	25		20.71	20.73	20.82		
10	50	0		20.79	20.80	20.88		
10	1	0	64-QAM	21.03	20.97	20.90	20.99	0.1256
10	1	25		21.00	21.07	20.93		
10	1	49		20.92	20.92	21.01		
10	25	0		19.77	19.88	19.84		
10	25	12		19.82	19.81	19.89		
10	25	25		19.78	19.72	19.77		
10	50	0		19.74	19.72	19.86		
10	1	0	256-QAM	18.27	18.23	18.25	18.19	0.0659
10	1	25		18.24	18.24	18.06		
10	1	49		18.18	18.08	17.92		
10	25	0		18.18	18.14	18.11		
10	25	12		18.10	18.02	17.96		
10	25	25		18.17	18.05	17.99		
10	50	0		18.02	18.06	17.91		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG2O0623-01A

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.83	22.82	22.84	22.79	0.1901
5	1	12		22.74	22.74	22.73		
5	1	24		22.70	22.73	22.87		
5	12	0		21.75	21.77	21.78		
5	12	7		21.80	21.77	21.85		
5	12	13		21.69	21.76	21.77		
5	25	0		21.76	21.75	21.80		
5	1	0	16-QAM	22.09	22.10	22.06	22.10	0.1622
5	1	12		22.12	22.12	22.18		
5	1	24		22.05	22.00	22.03		
5	12	0		20.75	20.92	20.85		
5	12	7		20.76	20.77	20.89		
5	12	13		20.78	20.80	20.77		
5	25	0		20.78	20.72	20.82		
5	1	0	64-QAM	21.08	21.00	20.96	21.00	0.1259
5	1	12		20.97	21.03	20.99		
5	1	24		20.96	20.97	20.99		
5	12	0		19.75	19.83	19.80		
5	12	7		19.78	19.74	19.83		
5	12	13		19.73	19.74	19.83		
5	25	0		19.74	19.76	19.86		
5	1	0	256-QAM	18.20	18.29	18.17	18.21	0.0662
5	1	12		18.26	18.17	18.07		
5	1	24		18.10	18.17	17.99		
5	12	0		18.19	18.15	18.10		
5	12	7		18.06	18.05	17.97		
5	12	13		18.11	18.07	17.94		
5	25	0		17.99	17.99	17.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.85	22.82	22.77	22.77	0.1892
3	1	8		22.78	22.76	22.69		
3	1	14		22.68	22.76	22.83		
3	8	0		21.81	21.76	21.86		
3	8	4		21.78	21.69	21.79		
3	8	7		21.67	21.68	21.76		
3	15	0		21.73	21.72	21.82		
3	1	0	16-QAM	22.12	22.05	21.97	22.09	0.1618
3	1	8		22.17	22.07	22.14		
3	1	14		22.06	22.01	22.05		
3	8	0		20.82	20.91	20.81		
3	8	4		20.76	20.75	20.84		
3	8	7		20.79	20.72	20.77		
3	15	0		20.81	20.73	20.80		
3	1	0	64-QAM	21.00	20.95	20.95	20.95	0.1245
3	1	8		20.95	21.00	20.95		
3	1	14		20.92	20.92	21.03		
3	8	0		19.81	19.83	19.78		
3	8	4		19.73	19.72	19.88		
3	8	7		19.76	19.73	19.77		
3	15	0		19.74	19.76	19.82		
3	1	0	256-QAM	18.21	18.33	18.16	18.25	0.0668
3	1	8		18.24	18.20	18.10		
3	1	14		18.18	18.15	17.91		
3	8	0		18.17	18.17	18.05		
3	8	4		18.01	18.05	17.91		
3	8	7		18.09	18.15	17.96		
3	15	0		18.01	18.04	17.93		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.08 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.86	22.83	22.83	22.80	0.1905
1.4	1	3		22.72	22.74	22.73		
1.4	1	5		22.77	22.73	22.79		
1.4	3	0		22.88	22.84	22.76		
1.4	3	1		22.71	22.71	22.68		
1.4	3	3		22.72	22.75	22.86		
1.4	6	0		21.69	21.76	21.84		
1.4	1	0	16-QAM	22.11	22.03	21.98	22.12	0.1629
1.4	1	3		22.12	22.04	22.10		
1.4	1	5		22.14	22.05	22.06		
1.4	3	0		22.02	22.02	22.04		
1.4	3	1		22.13	22.05	22.20		
1.4	3	3		22.10	22.03	22.10		
1.4	6	0		20.74	20.80	20.88		
1.4	1	0	64-QAM	21.07	21.00	20.87	20.99	0.1256
1.4	1	3		21.03	21.05	21.03		
1.4	1	5		20.92	20.97	21.03		
1.4	3	0		20.98	20.96	20.87		
1.4	3	1		21.01	21.06	20.94		
1.4	3	3		20.94	21.00	21.03		
1.4	6	0		19.74	19.75	19.84		
1.4	1	0	256-QAM	18.28	18.29	18.16	18.21	0.0662
1.4	1	3		18.26	18.20	18.05		
1.4	1	5		18.14	18.17	17.97		
1.4	3	0		18.19	18.25	18.18		
1.4	3	1		18.17	18.25	18.15		
1.4	3	3		18.17	18.13	17.92		
1.4	6	0		17.99	18.01	17.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	21.08	21.26	21.43	21.02	0.1265
20	1	49		21.18	21.36	21.32		
20	1	99		21.10	21.30	21.36		
20	50	0		20.24	20.34	20.38		
20	50	24		20.06	20.25	20.29		
20	50	50		20.15	20.12	20.25		
20	100	0		20.06	20.29	20.28		
20	1	0	16-QAM	20.42	20.54	20.72	20.31	0.1074
20	1	49		20.50	20.64	20.69		
20	1	99		20.50	20.55	20.50		
20	50	0		19.11	19.34	19.34		
20	50	24		19.24	19.38	19.33		
20	50	50		19.21	19.15	19.38		
20	100	0		19.07	19.21	19.36		
20	1	0	64-QAM	19.50	19.54	19.44	19.15	0.0822
20	1	49		19.43	19.56	19.54		
20	1	99		19.47	19.50	19.37		
20	50	0		18.27	18.32	18.40		
20	50	24		18.19	18.26	18.37		
20	50	50		18.17	18.28	18.33		
20	100	0		18.06	18.20	18.30		
20	1	0	256-QAM	16.46	16.32	16.48	16.07	0.0405
20	1	49		16.15	16.27	16.35		
20	1	99		16.35	16.40	16.44		
20	50	0		16.25	16.32	16.32		
20	50	24		16.33	16.30	16.46		
20	50	50		16.24	16.26	16.28		
20	100	0		16.28	16.27	16.45		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.99	21.23	21.36	20.99	0.1256
15	1	37		21.21	21.35	21.40		
15	1	74		21.00	21.29	21.34		
15	36	0		20.21	20.39	20.21		
15	36	20		20.02	20.26	20.39		
15	36	39		20.19	20.06	20.46		
15	75	0		20.14	20.33	20.34		
15	1	0	16-QAM	20.34	20.45	20.68	20.38	0.1091
15	1	37		20.54	20.55	20.79		
15	1	74		20.42	20.48	20.44		
15	36	0		19.18	19.30	19.27		
15	36	20		19.28	19.31	19.41		
15	36	39		19.12	19.16	19.45		
15	75	0		19.17	19.27	19.29		
15	1	0	64-QAM	19.59	19.59	19.46	19.18	0.0828
15	1	37		19.51	19.53	19.57		
15	1	74		19.43	19.54	19.32		
15	36	0		18.24	18.36	18.36		
15	36	20		18.24	18.24	18.39		
15	36	39		18.24	18.33	18.31		
15	75	0		18.13	18.17	18.38		
15	1	0	256-QAM	16.50	16.36	16.58	16.17	0.0414
15	1	37		16.11	16.27	16.41		
15	1	74		16.44	16.44	16.44		
15	36	0		16.33	16.27	16.40		
15	36	20		16.28	16.37	16.43		
15	36	39		16.31	16.24	16.20		
15	75	0		16.24	16.23	16.37		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	21.09	21.20	21.43	21.02	0.1265
10	1	25		21.13	21.43	21.40		
10	1	49		21.17	21.29	21.40		
10	25	0		20.23	20.42	20.15		
10	25	12		19.96	20.18	20.31		
10	25	25		20.25	20.17	20.36		
10	50	0		20.06	20.35	20.21		
10	1	0	16-QAM	20.52	20.46	20.76	20.35	0.1084
10	1	25		20.51	20.57	20.63		
10	1	49		20.50	20.51	20.52		
10	25	0		19.19	19.40	19.29		
10	25	12		19.24	19.32	19.34		
10	25	25		19.28	19.15	19.41		
10	50	0		19.08	19.21	19.46		
10	1	0	64-QAM	19.43	19.64	19.43	19.23	0.0838
10	1	25		19.33	19.46	19.59		
10	1	49		19.43	19.60	19.30		
10	25	0		18.18	18.22	18.47		
10	25	12		18.21	18.23	18.42		
10	25	25		18.25	18.32	18.24		
10	50	0		18.05	18.18	18.26		
10	1	0	256-QAM	16.46	16.25	16.56	16.15	0.0412
10	1	25		16.12	16.33	16.31		
10	1	49		16.43	16.45	16.49		
10	25	0		16.22	16.35	16.37		
10	25	12		16.31	16.38	16.39		
10	25	25		16.31	16.25	16.26		
10	50	0		16.29	16.31	16.55		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.07	21.22	21.37	20.96	0.1247
5	1	12		21.12	21.35	21.31		
5	1	24		21.06	21.37	21.26		
5	12	0		20.19	20.35	20.16		
5	12	7		19.98	20.30	20.33		
5	12	13		20.23	20.10	20.35		
5	25	0		19.97	20.35	20.22		
5	1	0	16-QAM	20.52	20.58	20.74	20.33	0.1079
5	1	12		20.49	20.64	20.60		
5	1	24		20.60	20.61	20.58		
5	12	0		19.10	19.40	19.37		
5	12	7		19.19	19.30	19.31		
5	12	13		19.20	19.08	19.40		
5	25	0		18.98	19.13	19.42		
5	1	0	64-QAM	19.46	19.58	19.46	19.23	0.0838
5	1	12		19.34	19.64	19.57		
5	1	24		19.39	19.40	19.29		
5	12	0		18.30	18.37	18.37		
5	12	7		18.12	18.25	18.35		
5	12	13		18.13	18.21	18.25		
5	25	0		18.04	18.13	18.34		
5	1	0	256-QAM	16.44	16.42	16.48	16.10	0.0407
5	1	12		16.08	16.28	16.27		
5	1	24		16.39	16.49	16.51		
5	12	0		16.18	16.39	16.42		
5	12	7		16.27	16.25	16.48		
5	12	13		16.28	16.36	16.23		
5	25	0		16.34	16.24	16.43		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	21.07	21.28	21.37	20.96	0.1247
3	1	8		21.15	21.34	21.37		
3	1	14		21.17	21.36	21.30		
3	8	0		20.26	20.37	20.25		
3	8	4		20.00	20.23	20.21		
3	8	7		20.24	20.21	20.41		
3	15	0		20.06	20.22	20.25		
3	1	0	16-QAM	20.52	20.45	20.71	20.30	0.1072
3	1	8		20.48	20.62	20.71		
3	1	14		20.43	20.63	20.47		
3	8	0		19.17	19.44	19.42		
3	8	4		19.14	19.37	19.24		
3	8	7		19.20	19.22	19.42		
3	15	0		19.12	19.19	19.40		
3	1	0	64-QAM	19.43	19.58	19.43	19.23	0.0838
3	1	8		19.53	19.49	19.64		
3	1	14		19.50	19.54	19.41		
3	8	0		18.31	18.33	18.37		
3	8	4		18.29	18.18	18.42		
3	8	7		18.10	18.37	18.27		
3	15	0		18.05	18.17	18.35		
3	1	0	256-QAM	16.55	16.28	16.55	16.14	0.0411
3	1	8		16.22	16.27	16.30		
3	1	14		16.43	16.43	16.45		
3	8	0		16.25	16.37	16.28		
3	8	4		16.41	16.28	16.48		
3	8	7		16.31	16.31	16.31		
3	15	0		16.33	16.35	16.40		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	21.09	21.20	21.40	21.01	0.1262
1.4	1	3		21.18	21.29	21.37		
1.4	1	5		21.20	21.35	21.26		
1.4	3	0		21.12	21.30	21.36		
1.4	3	1		21.21	21.27	21.42		
1.4	3	3		21.14	21.29	21.35		
1.4	6	0		20.25	20.33	20.21		
1.4	1	0	16-QAM	20.45	20.52	20.77	20.36	0.1086
1.4	1	3		20.40	20.54	20.66		
1.4	1	5		20.50	20.48	20.40		
1.4	3	0		20.49	20.58	20.65		
1.4	3	1		20.52	20.73	20.74		
1.4	3	3		20.42	20.47	20.54		
1.4	6	0		19.15	19.41	19.42		
1.4	1	0	64-QAM	19.43	19.63	19.41	19.23	0.0838
1.4	1	3		19.45	19.55	19.53		
1.4	1	5		19.54	19.55	19.40		
1.4	3	0		19.57	19.60	19.53		
1.4	3	1		19.39	19.64	19.49		
1.4	3	3		19.52	19.52	19.38		
1.4	6	0		18.37	18.40	18.43		
1.4	1	0	256-QAM	16.53	16.22	16.49	16.12	0.0409
1.4	1	3		16.24	16.17	16.43		
1.4	1	5		16.45	16.38	16.41		
1.4	3	0		16.26	16.31	16.37		
1.4	3	1		16.36	16.34	16.45		
1.4	3	3		16.21	16.18	16.20		
1.4	6	0		16.18	16.25	16.44		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.78	22.74	22.68	18.28	0.0673
10	1	25		22.72	22.67	22.61		
10	1	49		22.66	22.65	22.55		
10	25	0		21.80	21.86	21.72		
10	25	12		21.82	21.70	21.64		
10	25	25		21.79	21.76	21.69		
10	50	0		21.70	21.72	21.64		
10	1	0	16-QAM	22.05	22.02	21.90	17.61	0.0577
10	1	25		22.05	22.02	21.87		
10	1	49		22.11	22.00	22.09		
10	25	0		20.74	20.68	20.63		
10	25	12		20.81	20.70	20.65		
10	25	25		20.79	20.76	20.69		
10	50	0		20.80	20.70	20.60		
10	1	0	64-QAM	20.93	20.85	20.78	16.46	0.0443
10	1	25		20.85	20.91	20.84		
10	1	49		20.96	20.91	20.85		
10	25	0		19.73	19.70	19.62		
10	25	12		19.81	19.71	19.66		
10	25	25		19.78	19.77	19.70		
10	50	0		19.79	19.68	19.64		
10	1	0	256-QAM	18.10	18.25	18.13	13.84	0.0242
10	1	25		18.03	18.34	18.22		
10	1	49		18.05	18.33	18.24		
10	25	0		18.16	18.18	18.27		
10	25	12		18.22	18.14	18.31		
10	25	25		18.01	18.16	18.21		
10	50	0		17.99	18.22	18.20		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.71	22.69	22.59	18.21	0.0662
5	1	12		22.62	22.67	22.53		
5	1	24		22.58	22.62	22.55		
5	12	0		21.64	21.62	21.58		
5	12	7		21.79	21.62	21.55		
5	12	13		21.75	21.76	21.64		
5	25	0		21.81	21.61	21.58		
5	1	0	16-QAM	21.99	21.98	21.83	17.55	0.0569
5	1	12		21.99	22.00	21.83		
5	1	24		22.04	21.93	22.05		
5	12	0		20.71	20.62	20.62		
5	12	7		20.75	20.70	20.63		
5	12	13		20.69	20.66	20.59		
5	25	0		20.78	20.69	20.51		
5	1	0	64-QAM	20.87	20.77	20.70	16.46	0.0443
5	1	12		20.81	20.84	20.81		
5	1	24		20.96	20.83	20.80		
5	12	0		19.63	19.61	19.59		
5	12	7		19.78	19.61	19.58		
5	12	13		19.74	19.72	19.65		
5	25	0		19.71	19.58	19.60		
5	1	0	256-QAM	18.10	18.23	18.12	13.78	0.0239
5	1	12		18.01	18.28	18.13		
5	1	24		18.03	18.24	18.19		
5	12	0		18.14	18.10	18.20		
5	12	7		18.14	18.12	18.24		
5	12	13		17.91	18.08	18.13		
5	25	0		17.98	18.13	18.10		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.70	22.72	22.60	18.22	0.0664
3	1	8		22.67	22.58	22.57		
3	1	14		22.62	22.64	22.53		
3	8	0		21.67	21.64	21.54		
3	8	4		21.80	21.69	21.56		
3	8	7		21.77	21.70	21.66		
3	15	0		21.73	21.59	21.56		
3	1	0	16-QAM	22.05	22.01	21.89	17.55	0.0569
3	1	8		21.95	22.01	21.83		
3	1	14		22.02	22.00	22.04		
3	8	0		20.73	20.62	20.56		
3	8	4		20.76	20.65	20.65		
3	8	7		20.75	20.71	20.67		
3	15	0		20.73	20.68	20.50		
3	1	0	64-QAM	20.86	20.82	20.69	16.41	0.0438
3	1	8		20.78	20.81	20.74		
3	1	14		20.86	20.91	20.78		
3	8	0		19.72	19.64	19.55		
3	8	4		19.81	19.61	19.63		
3	8	7		19.73	19.75	19.65		
3	15	0		19.77	19.61	19.59		
3	1	0	256-QAM	18.02	18.25	18.13	13.83	0.0242
3	1	8		17.96	18.33	18.22		
3	1	14		18.04	18.29	18.22		
3	8	0		18.14	18.14	18.23		
3	8	4		18.17	18.11	18.29		
3	8	7		17.98	18.15	18.21		
3	15	0		17.96	18.20	18.10		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -2.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.70	22.68	22.66	18.21	0.0662
1.4	1	3		22.71	22.64	22.53		
1.4	1	5		22.56	22.55	22.54		
1.4	3	0		22.69	22.66	22.68		
1.4	3	1		22.64	22.63	22.53		
1.4	3	3		22.57	22.62	22.50		
1.4	6	0		21.80	21.58	21.59		
1.4	1	0	16-QAM	21.99	21.96	21.86	17.54	0.0568
1.4	1	3		22.03	21.94	21.83		
1.4	1	5		22.03	21.94	22.04		
1.4	3	0		21.99	21.96	21.86		
1.4	3	1		22.04	21.95	21.82		
1.4	3	3		22.02	21.95	22.01		
1.4	6	0		20.80	20.70	20.59		
1.4	1	0	64-QAM	20.91	20.84	20.77	16.44	0.0441
1.4	1	3		20.82	20.81	20.77		
1.4	1	5		20.94	20.91	20.76		
1.4	3	0		20.83	20.76	20.74		
1.4	3	1		20.79	20.86	20.79		
1.4	3	3		20.90	20.83	20.77		
1.4	6	0		19.78	19.58	19.60		
1.4	1	0	256-QAM	18.02	18.24	18.12	13.84	0.0242
1.4	1	3		17.95	18.34	18.15		
1.4	1	5		17.98	18.24	18.21		
1.4	3	0		18.09	18.15	18.10		
1.4	3	1		17.97	18.25	18.17		
1.4	3	3		17.99	18.26	18.18		
1.4	6	0		17.94	18.19	18.18		
Limit	ERP < 7W			Result			Pass	



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Report No. : FG2O0623-01A

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.94	22.89	22.95	18.51	0.0710
10	1	25		22.77	22.87	22.78		
10	1	49		22.84	22.82	22.83		
10	25	0		21.96	21.97	21.93		
10	25	12		21.95	21.87	21.92		
10	25	25		21.92	21.90	21.90		
10	50	0		21.92	21.93	21.92		
10	1	0	16-QAM	22.29	22.19	22.32	17.88	0.0614
10	1	25		22.20	22.20	22.27		
10	1	49		22.30	22.22	22.21		
10	25	0		20.85	20.86	20.86		
10	25	12		20.96	20.88	20.94		
10	25	25		20.92	20.91	20.91		
10	50	0		20.95	20.86	20.90		
10	1	0	64-QAM	21.06	20.97	21.07	16.68	0.0466
10	1	25		21.05	21.10	21.11		
10	1	49		21.12	21.09	21.08		
10	25	0		19.83	19.85	19.84		
10	25	12		19.94	19.86	19.92		
10	25	25		19.95	19.92	19.91		
10	50	0		19.95	19.85	19.89		
10	1	0	256-QAM	18.09	18.22	18.22	13.86	0.0243
10	1	25		18.01	18.30	18.25		
10	1	49		18.05	18.28	18.28		
10	25	0		18.10	18.17	18.24		
10	25	12		18.21	18.14	18.29		
10	25	25		18.04	18.13	18.21		
10	50	0		17.94	18.24	18.11		
Limit	ERP < 3W			Result			Pass	



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Report No. : FG200623-01A

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.89	22.87	22.86	18.45	0.0700
5	1	12		22.74	22.77	22.70		
5	1	24		22.74	22.74	22.79		
5	12	0		21.78	21.82	21.83		
5	12	7		21.88	21.87	21.87		
5	12	13		21.90	21.80	21.82		
5	25	0		21.89	21.85	21.90		
5	1	0	16-QAM	22.19	22.19	22.26	17.82	0.0605
5	1	12		22.18	22.18	22.17		
5	1	24		22.24	22.20	22.17		
5	12	0		20.75	20.83	20.78		
5	12	7		20.89	20.88	20.93		
5	12	13		20.92	20.86	20.87		
5	25	0		20.89	20.76	20.85		
5	1	0	64-QAM	21.03	20.97	21.03	16.64	0.0461
5	1	12		21.04	21.06	21.04		
5	1	24		21.08	21.08	21.05		
5	12	0		19.75	19.77	19.78		
5	12	7		19.87	19.77	19.91		
5	12	13		19.85	19.83	19.91		
5	25	0		19.92	19.84	19.89		
5	1	0	256-QAM	18.04	18.21	18.16	13.86	0.0243
5	1	12		17.94	18.30	18.23		
5	1	24		17.98	18.23	18.28		
5	12	0		18.03	18.16	18.15		
5	12	7		18.20	18.10	18.21		
5	12	13		17.97	18.10	18.16		
5	25	0		17.94	18.17	18.03		
Limit	ERP < 3W			Result			Pass	



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Report No. : FG200623-01A

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.88	22.88	22.92	18.48	0.0705
3	1	8		22.73	22.82	22.73		
3	1	14		22.74	22.73	22.73		
3	8	0		21.77	21.73	21.74		
3	8	4		21.90	21.81	21.90		
3	8	7		21.84	21.81	21.87		
3	15	0		21.88	21.81	21.83		
3	1	0	16-QAM	22.25	22.17	22.31	17.87	0.0612
3	1	8		22.18	22.10	22.26		
3	1	14		22.25	22.20	22.11		
3	8	0		20.85	20.79	20.86		
3	8	4		20.96	20.81	20.87		
3	8	7		20.86	20.87	20.81		
3	15	0		20.94	20.83	20.88		
3	1	0	64-QAM	21.04	20.95	21.02	16.65	0.0462
3	1	8		21.04	21.04	21.06		
3	1	14		21.09	21.08	21.08		
3	8	0		19.83	19.78	19.78		
3	8	4		19.87	19.84	19.89		
3	8	7		19.86	19.91	19.84		
3	15	0		19.92	19.85	19.87		
3	1	0	256-QAM	18.01	18.16	18.12	13.81	0.0240
3	1	8		17.93	18.23	18.25		
3	1	14		17.99	18.22	18.19		
3	8	0		18.07	18.14	18.18		
3	8	4		18.17	18.04	18.22		
3	8	7		17.98	18.10	18.15		
3	15	0		17.87	18.16	18.06		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.29 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.94	22.88	22.86	18.50	0.0708
1.4	1	3		22.70	22.85	22.78		
1.4	1	5		22.83	22.80	22.79		
1.4	3	0		22.91	22.83	22.87		
1.4	3	1		22.68	22.83	22.74		
1.4	3	3		22.78	22.79	22.73		
1.4	6	0		21.83	21.79	21.82		
1.4	1	0	16-QAM	22.20	22.18	22.26	17.84	0.0608
1.4	1	3		22.17	22.20	22.22		
1.4	1	5		22.26	22.18	22.18		
1.4	3	0		22.23	22.19	22.28		
1.4	3	1		22.10	22.14	22.21		
1.4	3	3		22.24	22.18	22.13		
1.4	6	0		20.94	20.83	20.81		
1.4	1	0	64-QAM	21.02	20.93	21.01	16.68	0.0466
1.4	1	3		20.99	21.05	21.04		
1.4	1	5		21.11	21.03	21.08		
1.4	3	0		20.98	20.90	21.02		
1.4	3	1		21.05	21.09	21.10		
1.4	3	3		21.12	21.06	21.07		
1.4	6	0		19.86	19.80	19.88		
1.4	1	0	256-QAM	18.01	18.20	18.12	13.85	0.0243
1.4	1	3		17.94	18.29	18.20		
1.4	1	5		18.02	18.25	18.25		
1.4	3	0		18.04	18.18	18.19		
1.4	3	1		17.96	18.23	18.19		
1.4	3	3		18.05	18.19	18.27		
1.4	6	0		17.91	18.16	18.03		
Limit	ERP < 3W			Result			Pass	



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Report No. : FG2O0623-01A

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -2.28 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	22.88	-	18.45	0.0700
10	1	25			22.81			
10	1	49			22.75			
10	25	0			21.82			
10	25	12			21.76			
10	25	25			21.81			
10	50	0			21.76			
10	1	0	16-QAM		22.22		17.79	0.0601
10	1	25			22.16			
10	1	49			22.09			
10	25	0			20.77			
10	25	12			20.78			
10	25	25			20.83			
10	50	0			20.80			
10	1	0	64-QAM		21.02		16.67	0.0465
10	1	25			21.10			
10	1	49			21.03			
10	25	0			19.76			
10	25	12			19.79			
10	25	25			19.82			
10	50	0			19.78			
10	1	0	256-QAM		18.31		13.92	0.0247
10	1	25			18.35			
10	1	49			18.31			
10	25	0			18.26			
10	25	12			18.14			
10	25	25			18.10			
10	50	0			18.23			
Limit	ERP < 3W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG200623-01A

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -2.28 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.83	22.77	22.82	18.40	0.0692
5	1	12		22.79	22.73	22.73		
5	1	24		22.67	22.73	22.73		
5	12	0		21.64	21.70	21.66		
5	12	7		21.74	21.76	21.66		
5	12	13		21.76	21.73	21.71		
5	25	0		21.74	21.73	21.66		
5	1	0	16-QAM	22.21	22.16	22.20	17.78	0.0600
5	1	12		22.13	22.13	22.09		
5	1	24		22.07	22.08	22.03		
5	12	0		20.75	20.74	20.77		
5	12	7		20.75	20.70	20.77		
5	12	13		20.77	20.83	20.79		
5	25	0		20.75	20.79	20.80		
5	1	0	64-QAM	20.99	20.98	20.98	16.67	0.0465
5	1	12		21.06	21.01	21.10		
5	1	24		20.96	20.93	20.99		
5	12	0		19.73	19.66	19.76		
5	12	7		19.70	19.77	19.69		
5	12	13		19.77	19.76	19.76		
5	25	0		19.71	19.69	19.74		
5	1	0	256-QAM	18.30	18.22	18.23	13.91	0.0246
5	1	12		18.34	18.25	18.25		
5	1	24		18.25	18.25	18.31		
5	12	0		18.17	18.17	18.24		
5	12	7		18.08	18.08	18.13		
5	12	13		18.08	18.07	18.05		
5	25	0		18.13	18.21	18.14		
Limit	ERP < 3W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.81	22.80	22.56	24.93	0.3112
20	1	49		22.72	22.63	22.65		
20	1	99		22.64	22.62	22.65		
20	50	0		21.82	21.69	21.67		
20	50	24		21.76	21.60	21.60		
20	50	50		21.72	21.68	21.66		
20	100	0		21.76	21.67	21.61		
20	1	0	16-QAM	21.67	21.66	21.56	23.90	0.2455
20	1	49		21.70	21.60	21.78		
20	1	99		21.64	21.70	21.66		
20	50	0		20.64	20.58	20.56		
20	50	24		20.76	20.62	20.67		
20	50	50		20.75	20.73	20.77		
20	100	0		20.76	20.62	20.62		
20	1	0	64-QAM	20.59	20.60	20.66	22.78	0.1897
20	1	49		20.64	20.61	20.65		
20	1	99		20.63	20.63	20.58		
20	50	0		19.67	19.62	19.56		
20	50	24		19.76	19.60	19.69		
20	50	50		19.76	19.69	19.78		
20	100	0		19.77	19.62	19.63		
20	1	0	256-QAM	18.10	18.09	17.77	20.39	0.1094
20	1	49		18.25	18.25	17.87		
20	1	99		18.21	18.23	17.86		
20	50	0		18.24	18.27	17.85		
20	50	24		18.20	18.20	17.81		
20	50	50		18.18	18.19	17.84		
20	100	0		18.19	18.24	17.91		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.72	22.70	22.58	24.84	0.3048
15	1	37		22.71	22.61	22.57		
15	1	74		22.57	22.58	22.60		
15	36	0		21.66	21.57	21.57		
15	36	20		21.73	21.50	21.62		
15	36	39		21.70	21.58	21.75		
15	75	0		21.67	21.62	21.58		
15	1	0	16-QAM	21.66	21.61	21.58	23.82	0.2410
15	1	37		21.68	21.51	21.68		
15	1	74		21.64	21.70	21.56		
15	36	0		20.58	20.50	20.55		
15	36	20		20.68	20.53	20.58		
15	36	39		20.65	20.69	20.77		
15	75	0		20.76	20.56	20.53		
15	1	0	64-QAM	20.56	20.53	20.60	22.74	0.1879
15	1	37		20.56	20.51	20.62		
15	1	74		20.55	20.54	20.58		
15	36	0		19.61	19.58	19.54		
15	36	20		19.71	19.51	19.69		
15	36	39		19.73	19.66	19.77		
15	75	0		19.74	19.58	19.56		
15	1	0	256-QAM	18.03	18.06	17.67	20.35	0.1084
15	1	37		18.23	18.17	17.89		
15	1	74		18.14	18.13	17.81		
15	36	0		18.23	18.22	17.94		
15	36	20		18.13	18.20	17.87		
15	36	39		18.13	18.13	17.81		
15	75	0		18.19	18.15	17.83		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.71	22.78	22.56	24.90	0.3090
10	1	25		22.63	22.55	22.60		
10	1	49		22.54	22.62	22.55		
10	25	0		21.61	21.61	21.55		
10	25	12		21.72	21.60	21.63		
10	25	25		21.67	21.64	21.73		
10	50	0		21.75	21.63	21.61		
10	1	0	16-QAM	21.65	21.61	21.51	23.88	0.2443
10	1	25		21.63	21.60	21.76		
10	1	49		21.59	21.63	21.64		
10	25	0		20.59	20.57	20.59		
10	25	12		20.70	20.53	20.64		
10	25	25		20.72	20.66	20.69		
10	50	0		20.75	20.62	20.59		
10	1	0	64-QAM	20.50	20.56	20.64	22.76	0.1888
10	1	25		20.60	20.58	20.58		
10	1	49		20.63	20.61	20.56		
10	25	0		19.59	19.60	19.58		
10	25	12		19.66	19.55	19.61		
10	25	25		19.71	19.63	19.75		
10	50	0		19.69	19.54	19.63		
10	1	0	256-QAM	18.06	18.08	17.73	20.38	0.1091
10	1	25		18.19	18.19	17.87		
10	1	49		18.21	18.22	17.90		
10	25	0		18.20	18.26	17.87		
10	25	12		18.15	18.20	17.87		
10	25	25		18.15	18.09	17.81		
10	50	0		18.25	18.17	17.90		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.80	22.74	22.57	24.92	0.3105
5	1	12		22.66	22.63	22.59		
5	1	24		22.60	22.60	22.60		
5	12	0		21.64	21.60	21.50		
5	12	7		21.75	21.59	21.62		
5	12	13		21.68	21.65	21.73		
5	25	0		21.69	21.61	21.53		
5	1	0	16-QAM	21.62	21.64	21.56	23.89	0.2449
5	1	12		21.64	21.50	21.77		
5	1	24		21.62	21.68	21.64		
5	12	0		20.59	20.52	20.55		
5	12	7		20.73	20.52	20.67		
5	12	13		20.75	20.73	20.72		
5	25	0		20.72	20.62	20.55		
5	1	0	64-QAM	20.50	20.55	20.57	22.75	0.1884
5	1	12		20.55	20.61	20.63		
5	1	24		20.56	20.61	20.52		
5	12	0		19.66	19.54	19.58		
5	12	7		19.75	19.51	19.66		
5	12	13		19.67	19.63	19.71		
5	25	0		19.71	19.53	19.62		
5	1	0	256-QAM	18.08	18.00	17.68	20.37	0.1089
5	1	12		18.16	18.15	17.93		
5	1	24		18.24	18.22	17.85		
5	12	0		18.25	18.21	17.91		
5	12	7		18.13	18.11	17.78		
5	12	13		18.18	18.13	17.86		
5	25	0		18.20	18.14	17.86		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG2O0623-01A

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	25.00	25.08	24.63	27.20	0.5248
20	1	49		24.84	24.98	24.50		
20	1	99		24.85	25.00	24.50		
20	50	0		23.89	24.04	23.57		
20	50	24		23.97	24.07	23.59		
20	50	50		24.01	24.13	23.64		
20	100	0		23.98	24.06	23.54		
20	1	0	16-QAM	24.35	24.43	23.96	26.60	0.4571
20	1	49		24.29	24.46	23.95		
20	1	99		24.44	24.48	23.98		
20	50	0		22.98	23.08	22.57		
20	50	24		22.98	23.06	22.59		
20	50	50		23.05	23.18	22.68		
20	100	0		22.93	23.10	22.61		
20	1	0	64-QAM	23.16	23.30	22.75	25.42	0.3483
20	1	49		23.19	23.28	22.80		
20	1	99		23.21	23.29	22.80		
20	50	0		21.88	22.05	21.55		
20	50	24		21.89	22.07	21.53		
20	50	50		22.05	22.16	21.70		
20	100	0		21.98	22.08	21.59		
20	1	0	256-QAM	20.69	20.78	20.45	22.90	0.1950
20	1	49		20.54	20.70	20.28		
20	1	99		20.57	20.68	20.27		
20	50	0		20.56	20.75	20.35		
20	50	24		20.58	20.69	20.32		
20	50	50		20.46	20.65	20.25		
20	100	0		20.61	20.72	20.31		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	24.98	25.05	24.59	27.17	0.5212
15	1	37		24.75	24.88	24.57		
15	1	74		24.80	24.91	24.54		
15	36	0		23.87	23.94	23.53		
15	36	20		23.88	23.97	23.57		
15	36	39		24.00	24.07	23.59		
15	75	0		23.90	24.00	23.54		
15	1	0	16-QAM	24.27	24.40	23.93	26.60	0.4571
15	1	37		24.21	24.43	23.88		
15	1	74		24.35	24.48	23.91		
15	36	0		22.88	23.04	22.51		
15	36	20		22.91	23.05	22.53		
15	36	39		23.00	23.12	22.66		
15	75	0		22.84	23.02	22.54		
15	1	0	64-QAM	23.07	23.27	22.75	25.39	0.3459
15	1	37		23.10	23.20	22.73		
15	1	74		23.20	23.20	22.75		
15	36	0		21.84	22.05	21.55		
15	36	20		21.87	22.04	21.59		
15	36	39		22.00	22.08	21.66		
15	75	0		21.98	22.08	21.54		
15	1	0	256-QAM	20.66	20.75	20.40	22.87	0.1936
15	1	37		20.48	20.60	20.24		
15	1	74		20.47	20.60	20.19		
15	36	0		20.47	20.66	20.27		
15	36	20		20.55	20.60	20.28		
15	36	39		20.43	20.59	20.18		
15	75	0		20.60	20.70	20.22		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG2O0623-01A

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.95	25.06	24.57	27.18	0.5224
10	1	25		24.82	24.98	24.53		
10	1	49		24.81	24.91	24.58		
10	25	0		23.85	24.03	23.57		
10	25	12		23.97	24.07	23.51		
10	25	25		23.98	24.07	23.59		
10	50	0		23.94	23.99	23.58		
10	1	0	16-QAM	24.35	24.38	23.96	26.54	0.4508
10	1	25		24.21	24.42	23.93		
10	1	49		24.40	24.38	23.97		
10	25	0		22.89	23.04	22.59		
10	25	12		22.89	23.01	22.57		
10	25	25		23.05	23.15	22.64		
10	50	0		22.83	23.08	22.55		
10	1	0	64-QAM	23.16	23.20	22.69	25.40	0.3467
10	1	25		23.13	23.28	22.76		
10	1	49		23.12	23.20	22.73		
10	25	0		21.79	21.96	21.55		
10	25	12		21.88	22.05	21.52		
10	25	25		22.01	22.15	21.68		
10	50	0		21.91	22.08	21.57		
10	1	0	256-QAM	20.61	20.72	20.38	22.84	0.1923
10	1	25		20.48	20.65	20.20		
10	1	49		20.54	20.64	20.21		
10	25	0		20.51	20.68	20.34		
10	25	12		20.56	20.60	20.27		
10	25	25		20.39	20.61	20.18		
10	50	0		20.58	20.70	20.21		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 2.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	24.92	25.06	24.59	27.18	0.5224
5	1	12		24.84	24.97	24.58		
5	1	24		24.78	24.99	24.53		
5	12	0		23.88	24.02	23.50		
5	12	7		23.87	24.02	23.55		
5	12	13		23.96	24.08	23.60		
5	25	0		23.95	24.06	23.54		
5	1	0	16-QAM	24.28	24.35	23.86	26.57	0.4539
5	1	12		24.21	24.44	23.88		
5	1	24		24.42	24.45	23.90		
5	12	0		22.92	23.06	22.51		
5	12	7		22.89	23.02	22.57		
5	12	13		23.04	23.12	22.68		
5	25	0		22.83	23.07	22.56		
5	1	0	64-QAM	23.14	23.30	22.70	25.42	0.3483
5	1	12		23.11	23.23	22.72		
5	1	24		23.18	23.29	22.79		
5	12	0		21.88	22.00	21.55		
5	12	7		21.81	22.06	21.57		
5	12	13		21.99	22.13	21.64		
5	25	0		21.90	22.02	21.58		
5	1	0	256-QAM	20.66	20.70	20.45	22.83	0.1919
5	1	12		20.49	20.64	20.26		
5	1	24		20.56	20.62	20.23		
5	12	0		20.50	20.71	20.30		
5	12	7		20.57	20.69	20.23		
5	12	13		20.36	20.58	20.21		
5	25	0		20.51	20.62	20.29		
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.80	22.93	22.75	22.52	0.1786
20	1	49		22.77	22.81	22.89		
20	1	99		22.87	22.89	22.92		
20	50	0		21.85	22.04	22.03		
20	50	24		21.81	21.95	22.02		
20	50	50		21.81	21.86	21.98		
20	100	0		21.78	21.94	22.02		
20	1	0	16-QAM	22.08	22.29	21.95	21.93	0.1560
20	1	49		22.25	22.26	22.34		
20	1	99		22.21	22.18	22.31		
20	50	0		20.87	20.96	21.03		
20	50	24		20.83	20.96	21.02		
20	50	50		20.83	20.87	21.01		
20	100	0		20.84	20.96	21.01		
20	1	0	64-QAM	21.02	21.11	20.83	20.79	0.1199
20	1	49		21.15	21.20	21.20		
20	1	99		21.14	21.02	21.13		
20	50	0		19.86	19.94	20.00		
20	50	24		19.81	19.97	20.04		
20	50	50		19.82	19.87	19.97		
20	100	0		19.83	19.92	19.99		
20	1	0	256-QAM	18.00	18.09	18.18	17.98	0.0628
20	1	49		18.07	18.08	18.25		
20	1	99		18.13	18.13	18.34		
20	50	0		18.08	18.12	18.30		
20	50	24		18.17	18.19	18.39		
20	50	50		18.08	18.10	18.31		
20	100	0		18.10	18.05	18.19		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG2O0623-01A

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.72	22.90	22.70	22.49	0.1774
15	1	37		22.67	22.80	22.81		
15	1	74		22.82	22.82	22.89		
15	36	0		21.78	21.86	21.99		
15	36	20		21.71	21.89	21.95		
15	36	39		21.81	21.80	21.89		
15	75	0		21.75	21.93	21.95		
15	1	0	16-QAM	22.05	22.23	21.93	21.88	0.1542
15	1	37		22.16	22.23	22.29		
15	1	74		22.20	22.13	22.26		
15	36	0		20.79	20.87	21.03		
15	36	20		20.75	20.90	21.01		
15	36	39		20.76	20.83	20.97		
15	75	0		20.81	20.92	20.93		
15	1	0	64-QAM	20.92	21.04	20.80	20.72	0.1180
15	1	37		21.11	21.13	21.11		
15	1	74		21.07	21.00	21.09		
15	36	0		19.77	19.90	19.96		
15	36	20		19.71	19.95	20.02		
15	36	39		19.79	19.86	19.94		
15	75	0		19.80	19.91	19.97		
15	1	0	256-QAM	17.94	18.05	18.11	17.97	0.0627
15	1	37		18.00	18.03	18.18		
15	1	74		18.06	18.13	18.27		
15	36	0		18.05	18.09	18.20		
15	36	20		18.12	18.19	18.38		
15	36	39		18.08	18.06	18.21		
15	75	0		18.03	17.97	18.14		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.78	22.92	22.72	22.51	0.1782
10	1	25		22.70	22.75	22.79		
10	1	49		22.78	22.89	22.92		
10	25	0		21.76	21.89	21.90		
10	25	12		21.72	21.87	22.00		
10	25	25		21.80	21.80	21.92		
10	50	0		21.71	21.85	21.97		
10	1	0	16-QAM	22.04	22.24	21.94	21.92	0.1556
10	1	25		22.25	22.22	22.33		
10	1	49		22.18	22.11	22.21		
10	25	0		20.81	20.89	20.93		
10	25	12		20.82	20.91	21.02		
10	25	25		20.78	20.78	20.93		
10	50	0		20.82	20.88	20.94		
10	1	0	64-QAM	20.95	21.09	20.76	20.72	0.1180
10	1	25		21.05	21.13	21.13		
10	1	49		21.11	20.98	21.08		
10	25	0		19.79	19.88	19.91		
10	25	12		19.71	19.93	19.94		
10	25	25		19.81	19.78	19.87		
10	50	0		19.80	19.92	19.99		
10	1	0	256-QAM	18.00	18.06	18.18	17.95	0.0624
10	1	25		17.97	18.04	18.25		
10	1	49		18.07	18.12	18.32		
10	25	0		18.07	18.02	18.24		
10	25	12		18.08	18.10	18.36		
10	25	25		18.06	18.07	18.27		
10	50	0		18.01	17.99	18.09		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.78	22.88	22.68	22.50	0.1778
5	1	12		22.73	22.73	22.89		
5	1	24		22.77	22.84	22.91		
5	12	0		21.80	21.95	21.93		
5	12	7		21.80	21.90	22.00		
5	12	13		21.72	21.78	21.88		
5	25	0		21.74	21.84	21.94		
5	1	0	16-QAM	22.06	22.25	21.89	21.92	0.1556
5	1	12		22.23	22.25	22.33		
5	1	24		22.11	22.12	22.24		
5	12	0		20.79	20.89	21.00		
5	12	7		20.83	20.94	20.98		
5	12	13		20.77	20.79	20.91		
5	25	0		20.74	20.91	21.01		
5	1	0	64-QAM	21.02	21.03	20.81	20.76	0.1191
5	1	12		21.10	21.17	21.14		
5	1	24		21.09	20.99	21.11		
5	12	0		19.83	19.84	19.92		
5	12	7		19.72	19.88	20.01		
5	12	13		19.72	19.86	19.90		
5	25	0		19.79	19.88	19.97		
5	1	0	256-QAM	17.96	18.03	18.16	17.90	0.0617
5	1	12		18.04	18.03	18.16		
5	1	24		18.03	18.12	18.30		
5	12	0		17.98	18.09	18.21		
5	12	7		18.10	18.11	18.31		
5	12	13		17.98	18.06	18.23		
5	25	0		18.02	17.96	18.19		
Limit	EIRP < 1W			Result			Pass	



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LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.80	22.83	22.66	22.50	0.1778
3	1	8		22.73	22.77	22.86		
3	1	14		22.85	22.86	22.91		
3	8	0		21.77	21.92	21.92		
3	8	4		21.77	21.88	21.92		
3	8	7		21.71	21.85	21.94		
3	15	0		21.77	21.92	21.99		
3	1	0	16-QAM	22.00	22.20	21.87	21.86	0.1535
3	1	8		22.15	22.25	22.27		
3	1	14		22.15	22.10	22.27		
3	8	0		20.79	20.88	21.00		
3	8	4		20.81	20.87	21.02		
3	8	7		20.75	20.87	20.96		
3	15	0		20.77	20.88	20.95		
3	1	0	64-QAM	20.92	21.08	20.75	20.74	0.1186
3	1	8		21.09	21.15	21.15		
3	1	14		21.14	20.96	21.10		
3	8	0		19.77	19.92	19.94		
3	8	4		19.78	19.97	19.97		
3	8	7		19.73	19.86	19.89		
3	15	0		19.77	19.91	19.92		
3	1	0	256-QAM	17.93	18.07	18.10	17.92	0.0619
3	1	8		18.02	18.00	18.15		
3	1	14		18.04	18.09	18.30		
3	8	0		18.01	18.09	18.28		
3	8	4		18.14	18.18	18.33		
3	8	7		18.04	18.09	18.31		
3	15	0		18.10	18.00	18.13		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.41 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.73	22.86	22.72	22.47	0.1766
1.4	1	3		22.74	22.80	22.86		
1.4	1	5		22.84	22.88	22.87		
1.4	3	0		22.73	22.88	22.68		
1.4	3	1		22.76	22.76	22.83		
1.4	3	3		22.87	22.80	22.82		
1.4	6	0		21.69	21.89	22.02		
1.4	1	0	16-QAM	21.99	22.20	21.95	21.89	0.1545
1.4	1	3		22.25	22.26	22.29		
1.4	1	5		22.21	22.10	22.28		
1.4	3	0		22.00	22.25	21.90		
1.4	3	1		22.22	22.26	22.30		
1.4	3	3		22.18	22.11	22.29		
1.4	6	0		20.78	20.94	20.94		
1.4	1	0	64-QAM	21.01	21.09	20.74	20.76	0.1191
1.4	1	3		21.14	21.17	21.17		
1.4	1	5		21.10	21.00	21.03		
1.4	3	0		20.95	21.02	20.83		
1.4	3	1		21.08	21.10	21.14		
1.4	3	3		21.10	21.01	21.08		
1.4	6	0		19.73	19.88	19.92		
1.4	1	0	256-QAM	17.98	18.01	18.13	17.93	0.0621
1.4	1	3		18.01	17.99	18.18		
1.4	1	5		18.07	18.07	18.30		
1.4	3	0		17.98	18.07	18.12		
1.4	3	1		18.06	18.00	18.25		
1.4	3	3		18.05	18.11	18.34		
1.4	6	0		18.10	17.96	18.19		
Limit	EIRP < 1W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.80	22.77	22.78	18.60	0.0724
20	1	49		22.74	22.71	22.68		
20	1	99		22.68	22.61	22.63		
20	50	0		21.73	21.79	21.67		
20	50	24		21.68	21.67	21.62		
20	50	50		21.69	21.68	21.66		
20	100	0		21.76	21.78	21.73		
20	1	0	16-QAM	22.02	22.02	21.94	17.90	0.0617
20	1	49		22.06	22.09	22.10		
20	1	99		22.00	21.97	21.99		
20	50	0		20.73	20.70	20.67		
20	50	24		20.82	20.69	20.65		
20	50	50		20.73	20.72	20.66		
20	100	0		20.80	20.80	20.74		
20	1	0	64-QAM	20.93	20.95	20.85	16.81	0.0480
20	1	49		20.92	21.01	20.90		
20	1	99		20.89	20.82	20.83		
20	50	0		19.74	19.69	19.66		
20	50	24		19.80	19.69	19.65		
20	50	50		19.70	19.68	19.67		
20	100	0		19.79	19.76	19.73		
20	1	0	256-QAM	18.15	18.31	18.22	14.19	0.0262
20	1	49		18.08	18.39	18.26		
20	1	99		18.12	18.35	18.31		
20	50	0		18.17	18.26	18.27		
20	50	24		18.22	18.24	18.39		
20	50	50		18.06	18.18	18.26		
20	100	0		18.02	18.32	18.20		
Limit	ERP < 3W			Result			Pass	



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LTE Band 71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.79	22.71	22.73	18.59	0.0723
15	1	37		22.66	22.65	22.65		
15	1	74		22.65	22.52	22.62		
15	36	0		21.70	21.62	21.66		
15	36	20		21.74	21.57	21.56		
15	36	39		21.65	21.63	21.63		
15	75	0		21.66	21.74	21.68		
15	1	0	16-QAM	21.94	21.96	21.86	17.88	0.0614
15	1	37		22.00	22.04	22.08		
15	1	74		21.92	21.89	21.94		
15	36	0		20.66	20.67	20.57		
15	36	20		20.73	20.59	20.62		
15	36	39		20.65	20.71	20.64		
15	75	0		20.79	20.72	20.69		
15	1	0	64-QAM	20.83	20.90	20.80	16.72	0.0470
15	1	37		20.83	20.92	20.81		
15	1	74		20.79	20.73	20.78		
15	36	0		19.74	19.60	19.61		
15	36	20		19.75	19.67	19.56		
15	36	39		19.63	19.59	19.67		
15	75	0		19.73	19.68	19.70		
15	1	0	256-QAM	18.10	18.28	18.19	14.15	0.0260
15	1	37		18.02	18.31	18.26		
15	1	74		18.07	18.30	18.24		
15	36	0		18.17	18.25	18.26		
15	36	20		18.22	18.14	18.35		
15	36	39		17.97	18.09	18.18		
15	75	0		17.93	18.29	18.16		
Limit	ERP < 3W			Result			Pass	



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LTE Band 71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.79	22.68	22.74	18.59	0.0723
10	1	25		22.73	22.65	22.63		
10	1	49		22.59	22.54	22.62		
10	25	0		21.72	21.62	21.61		
10	25	12		21.69	21.64	21.57		
10	25	25		21.65	21.60	21.56		
10	50	0		21.74	21.64	21.68		
10	1	0	16-QAM	21.93	21.94	21.90	17.87	0.0612
10	1	25		21.96	22.07	22.02		
10	1	49		21.94	21.94	21.95		
10	25	0		20.73	20.70	20.57		
10	25	12		20.82	20.67	20.55		
10	25	25		20.67	20.70	20.64		
10	50	0		20.80	20.72	20.73		
10	1	0	64-QAM	20.92	20.95	20.82	16.77	0.0475
10	1	25		20.90	20.97	20.84		
10	1	49		20.89	20.78	20.78		
10	25	0		19.69	19.69	19.64		
10	25	12		19.71	19.62	19.63		
10	25	25		19.69	19.63	19.67		
10	50	0		19.69	19.76	19.65		
10	1	0	256-QAM	18.08	18.23	18.19	14.17	0.0261
10	1	25		18.04	18.30	18.23		
10	1	49		18.02	18.31	18.22		
10	25	0		18.08	18.26	18.20		
10	25	12		18.13	18.20	18.37		
10	25	25		18.03	18.08	18.24		
10	50	0		18.00	18.22	18.15		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -2.05 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.75	22.67	22.73	18.55	0.0716
5	1	12		22.69	22.62	22.62		
5	1	24		22.62	22.52	22.53		
5	12	0		21.72	21.62	21.61		
5	12	7		21.71	21.61	21.55		
5	12	13		21.65	21.59	21.66		
5	25	0		21.73	21.73	21.70		
5	1	0	16-QAM	22.00	22.01	21.93	17.89	0.0615
5	1	12		22.02	22.09	22.04		
5	1	24		21.93	21.94	21.94		
5	12	0		20.72	20.64	20.57		
5	12	7		20.81	20.67	20.59		
5	12	13		20.67	20.66	20.60		
5	25	0		20.75	20.75	20.68		
5	1	0	64-QAM	20.83	20.85	20.77	16.76	0.0474
5	1	12		20.84	20.96	20.86		
5	1	24		20.81	20.78	20.74		
5	12	0		19.70	19.60	19.62		
5	12	7		19.74	19.65	19.64		
5	12	13		19.70	19.61	19.60		
5	25	0		19.77	19.75	19.65		
5	1	0	256-QAM	18.13	18.23	18.14	14.12	0.0258
5	1	12		18.05	18.31	18.19		
5	1	24		18.06	18.29	18.23		
5	12	0		18.07	18.18	18.20		
5	12	7		18.20	18.24	18.31		
5	12	13		18.00	18.09	18.22		
5	25	0		17.95	18.32	18.18		
Limit	ERP < 3W			Result			Pass	



LTE Band 41C(HPUE)_CA Maximum Average Power [dBm] (GT - LC = 2.12 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	1	99	1	0	QPSK	25.57	25.71	25.96	28.08	0.6427
20+20	1	99	1	0	16-QAM	24.67	24.89	25.63	27.75	0.5957
20+20	1	99	1	0	64-QAM	23.88	24.01	24.17	26.29	0.4256
20+20	1	99	1	0	256-QAM	20.89	21.01	21.34	23.46	0.2218
20+15	1	99	1	0	QPSK	25.64	25.85	26.05	28.17	0.6561
20+15	1	99	1	0	16-QAM	24.85	25.07	25.29	27.41	0.5508
20+15	1	99	1	0	64-QAM	24.02	24.46	24.53	26.65	0.4624
20+15	1	99	1	0	256-QAM	20.92	21.17	21.47	23.59	0.2286
15+20	1	74	1	0	QPSK	25.73	25.82	26.03	28.15	0.6531
15+20	1	74	1	0	16-QAM	24.85	24.90	25.34	27.46	0.5572
15+20	1	74	1	0	64-QAM	24.03	24.18	24.51	26.63	0.4603
15+20	1	74	1	0	256-QAM	21.01	21.17	21.41	23.53	0.2254
10+20	1	49	1	0	QPSK	25.75	25.84	26.02	28.14	0.6516
10+20	1	49	1	0	16-QAM	24.99	24.95	25.11	27.23	0.5284
10+20	1	49	1	0	64-QAM	24.12	24.15	24.40	26.52	0.4487
10+20	1	49	1	0	256-QAM	21.01	21.12	21.36	23.48	0.2228
20+5	1	99	1	0	QPSK	25.70	26.03	26.11	28.23	0.6653
20+5	1	99	1	0	16-QAM	24.35	24.72	24.91	27.03	0.5047
20+5	1	99	1	0	64-QAM	24.02	24.44	24.39	26.56	0.4529
20+5	1	99	1	0	256-QAM	21.07	21.35	21.51	23.63	0.2307
5+20	1	24	1	0	QPSK	25.80	25.80	26.01	28.13	0.6501
5+20	1	24	1	0	16-QAM	24.90	25.02	25.20	27.32	0.5395
5+20	1	24	1	0	64-QAM	24.11	24.21	24.44	26.56	0.4529
5+20	1	24	1	0	256-QAM	20.96	21.11	21.32	23.44	0.2208
15+10	1	74	1	0	QPSK	25.79	25.96	26.15	28.27	0.6714
15+10	1	74	1	0	16-QAM	24.57	24.66	24.98	27.10	0.5129
15+10	1	74	1	0	64-QAM	24.07	24.22	24.47	26.59	0.4560
15+10	1	74	1	0	256-QAM	21.03	21.26	21.50	23.62	0.2301
10+15	1	49	1	0	QPSK	25.80	25.84	26.09	28.21	0.6622
10+15	1	49	1	0	16-QAM	24.41	24.46	24.87	26.99	0.5000
10+15	1	49	1	0	64-QAM	24.10	24.16	24.45	26.57	0.4539
10+15	1	49	1	0	256-QAM	21.01	21.09	21.35	23.47	0.2223
15+15	1	74	1	0	QPSK	25.76	25.90	26.09	28.21	0.6622
15+15	1	74	1	0	16-QAM	25.04	25.08	25.28	27.40	0.5495
15+15	1	74	1	0	64-QAM	24.03	24.21	24.60	26.72	0.4699
15+15	1	74	1	0	256-QAM	21.05	21.19	21.46	23.58	0.2280
Limit	EIRP < 2W					Result			Pass	

Appendix B. Test Results of Radiated Test

<Ant. 0>

LTE Band 2

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-40.93	-13	-27.93	-62.91	-47.5	1.67	8.24	H
	5556	-48.33	-13	-35.33	-74.87	-55.4	2.66	9.72	H
	7404	-48.75	-13	-35.75	-76.87	-57.9	2.46	11.61	H
									H
									H
									H
	3702	-47.03	-13	-34.03	-68.98	-53.6	1.67	8.24	V
	5556	-49.03	-13	-36.03	-75.62	-56.1	2.66	9.72	V
	7404	-50.35	-13	-37.35	-78.86	-59.5	2.46	11.61	V
									V
									V
									V
Middle	3744	-42.29	-13	-29.29	-64.07	-48.9	1.68	8.29	H
	5616	-48.75	-13	-35.75	-74.96	-55.8	2.69	9.75	H
	7482	-50.77	-13	-37.77	-78.6	-60.1	2.44	11.76	H
									H
									H
									V
	3744	-46.09	-13	-33.09	-67.99	-52.7	1.68	8.29	V
	5616	-47.85	-13	-34.85	-74.34	-54.9	2.69	9.75	V
	7482	-49.87	-13	-36.87	-78.4	-59.2	2.44	11.76	V
									V
									V
									V



LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3780	-42.06	-13	-29.06	-63.74	-48.7	1.69	8.34	H
	5676	-47.06	-13	-34.06	-73.82	-54.1	2.73	9.77	H
	7566	-50.67	-13	-37.67	-79.14	-60.1	2.41	11.84	H
									H
									H
									H
	3780	-46.16	-13	-33.16	-67.94	-52.8	1.69	8.34	V
	5676	-45.36	-13	-32.36	-71.94	-52.4	2.73	9.77	V
	7566	-50.97	-13	-37.97	-79.91	-60.4	2.41	11.84	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)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-40.03	-13	-27.03	-61.72	-46.1	1.58	7.65	H
	5136	-51.62	-13	-38.62	-76.7	-58.9	2.42	9.70	H
	6846	-46.42	-13	-33.42	-74.69	-54.4	2.64	10.62	H
									H
									H
									H
	3420	-39.43	-13	-26.43	-61.16	-45.5	1.58	7.65	V
	5136	-52.12	-13	-39.12	-77.35	-59.4	2.42	9.70	V
	6846	-46.82	-13	-33.82	-75.04	-54.8	2.64	10.62	V
									V
									V
									V
Middle	3474	-39.81	-13	-26.81	-61.54	-46.1	1.60	7.89	H
	5208	-49.36	-13	-36.36	-74.71	-56.6	2.46	9.70	H
	6942	-42.58	-13	-29.58	-70.43	-50.7	2.61	10.73	H
									H
									H
									H
	3474	-39.51	-13	-26.51	-61.58	-45.8	1.60	7.89	V
	5208	-50.46	-13	-37.46	-75.83	-57.7	2.46	9.70	V
	6942	-44.58	-13	-31.58	-72.19	-52.7	2.61	10.73	V
									V
									V
									V



LTE Band 66 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3522	-42.08	-13	-29.08	-64.24	-48.5	1.61	8.03	H
	5286	-50.60	-13	-37.60	-76.45	-57.8	2.50	9.70	H
	7044	-44.29	-13	-31.29	-72.1	-52.6	2.58	10.89	H
									H
									H
									H
	3522	-44.08	-13	-31.08	-65.83	-50.5	1.61	8.03	V
	5286	-53.20	-13	-40.20	-78.71	-60.4	2.50	9.70	V
	7044	-44.99	-13	-31.99	-72.48	-53.3	2.58	10.89	V
									V
									V
									V

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

**LTE Band 41 (HPUE)**

LTE Band 41 (HPUE) / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-48.91	-25	-23.91	-74.3	-56.26	2.33	9.68	H
	7494	-47.91	-25	-22.91	-76.52	-57.27	2.43	11.79	H
	9990	-48.42	-25	-23.42	-82.1	-57.93	2.69	12.21	H
									H
									H
									H
	4992	-47.34	-25	-22.34	-72.55	-54.69	2.33	9.68	V
	7494	-49.18	-25	-24.18	-78.02	-58.54	2.43	11.79	V
	9990	-48.37	-25	-23.37	-81.84	-57.88	2.69	12.21	V
									V
									V
									V
Middle	5166	-45.74	-25	-20.74	-71.23	-53.01	2.43	9.70	H
	7752	-41.42	-25	-16.42	-70.77	-51.02	2.35	11.95	H
	10332	-48.17	-25	-23.17	-82.6	-57.81	2.69	12.33	H
									H
									H
									H
	5166	-45.62	-25	-20.62	-71.06	-52.89	2.43	9.70	V
	7752	-43.63	-25	-18.63	-73.27	-53.23	2.35	11.95	V
	10332	-48.13	-25	-23.13	-82.46	-57.77	2.69	12.33	V
									V
									V
									V



LTE Band 41 (HPUE) / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	5340	-44.38	-25	-19.38	-70.21	-51.55	2.53	9.70	H
	8016	-44.05	-25	-19.05	-74.11	-53.89	2.27	12.11	H
	10674	-47.04	-25	-22.04	-82.31	-56.78	2.69	12.43	H
									H
									H
									H
	5340	-45.47	-25	-20.47	-71.36	-52.64	2.53	9.70	V
	8016	-41.82	-25	-16.82	-72.22	-51.66	2.27	12.11	V
	10674	-47.41	-25	-22.41	-82.54	-57.15	2.69	12.43	V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 20MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-48.51	-13	-35.51	-59.7	-49.76	0.84	4.23	H
	1992	-59.41	-13	-46.41	-75.48	-60.05	1.13	3.92	H
	2648	-58.85	-13	-45.85	-77.49	-60.88	1.34	5.52	H
									H
									H
									H
	1328	-50.62	-13	-37.62	-62.21	-51.87	0.84	4.23	V
	1992	-59.88	-13	-46.88	-76.23	-60.52	1.13	3.92	V
	2648	-58.35	-13	-45.35	-77.52	-60.38	1.34	5.52	V
									V
									V
									V
Middle	1344	-50.77	-13	-37.77	-62.02	-52.11	0.84	4.33	H
	2008	-60.48	-13	-47.48	-76.67	-61.12	1.14	3.92	H
	2680	-58.21	-13	-45.21	-76.89	-60.26	1.35	5.54	H
									H
									H
									H
	1344	-52.32	-13	-39.32	-63.92	-53.66	0.84	4.33	V
	2008	-60.18	-13	-47.18	-76.6	-60.82	1.14	3.92	V
	2680	-58.04	-13	-45.04	-77.4	-60.09	1.35	5.54	V
									V
									V
									V



LTE Band 71 / 20MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1360	-52.99	-13	-39.99	-64.27	-54.42	0.85	4.43	H
	2032	-60.48	-13	-47.48	-76.83	-61.18	1.14	4.00	H
	2712	-59.09	-13	-46.09	-77.8	-61.15	1.36	5.57	H
									H
									H
									H
	1360	-53.62	-13	-40.62	-65.33	-55.05	0.85	4.43	V
	2032	-59.83	-13	-46.83	-76.54	-60.53	1.14	4.00	V
	2712	-57.88	-13	-44.88	-77.28	-59.94	1.36	5.57	V
									V
									V
									V

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

**LTE CA Band 41C (HPUE)**

LTE CA Band 41C (HPUE) / 20+20MHz / QPSK,1RB99+1RB0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5034	-48.59	-25	-23.59	-74.05	-55.93	2.36	9.70	H
	7548	-49.71	-25	-24.71	-78.46	-59.13	2.41	11.83	H
	10064	-48.29	-25	-23.29	-82.1	-57.82	2.70	12.23	H
									H
									H
									H
	5034	-49.84	-25	-24.84	-75.12	-57.18	2.36	9.70	V
	7548	-48.85	-25	-23.85	-77.85	-58.27	2.41	11.83	V
	10064	-48.41	-25	-23.41	-82.15	-57.94	2.70	12.23	V
									V
									V
									V
Middle	5184	-44.88	-25	-19.88	-70.42	-52.14	2.44	9.70	H
	7776	-43.79	-25	-18.79	-73.24	-53.42	2.34	11.97	H
	10368	-48.12	-25	-23.12	-82.64	-57.77	2.69	12.35	H
									H
									H
									H
	5184	-43.64	-25	-18.64	-69.04	-50.9	2.44	9.70	V
	7776	-43.19	-25	-18.19	-72.93	-52.82	2.34	11.97	V
	10368	-48.22	-25	-23.22	-82.38	-57.87	2.69	12.35	V
									V
									V
									V



LTE CA Band 41C (HPUE) / 20+20MHz / QPSK,1RB99+1RB0									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	5340	-43.82	-25	-18.82	-69.83	-50.99	2.53	9.70	H
	8010	-43.83	-25	-18.83	-73.91	-53.67	2.27	12.11	H
	10674	-47.16	-25	-22.16	-82.44	-56.9	2.69	12.43	H
									H
									H
									H
	5340	-46.33	-25	-21.33	-72.26	-53.5	2.53	9.70	V
	8010	-43.83	-25	-18.83	-74.25	-53.67	2.27	12.11	V
	10674	-47.11	-25	-22.11	-82.21	-56.85	2.69	12.43	V
									V
									V
									V

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



<Ant. 3>

LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-22.76	-13	-9.76	-35.9	-24.52	0.98	4.89	H
	2472	-40.13	-13	-27.13	-58.6	-42.01	1.28	5.32	H
	3296	-43.10	-13	-30.10	-63.73	-46.51	1.54	7.10	H
	4120	-51.49	-13	-38.49	-73.72	-56.13	1.83	8.62	H
	4944	-52.25	-13	-39.25	-76.96	-57.38	2.30	9.59	H
									H
	1648	-28.50	-13	-15.50	-42.11	-30.26	0.98	4.89	V
	2472	-38.03	-13	-25.03	-56.94	-39.91	1.28	5.32	V
	3296	-42.44	-13	-29.44	-63.4	-45.85	1.54	7.10	V
	4120	-51.52	-13	-38.52	-73.9	-56.16	1.83	8.62	V
	4944	-53.28	-13	-40.28	-77.81	-58.41	2.30	9.59	V
									V
Middle	1664	-25.24	-13	-12.24	-38.52	-26.95	0.98	4.84	H
	2496	-41.62	-13	-28.62	-60.13	-43.57	1.29	5.39	H
	3328	-43.34	-13	-30.34	-64.15	-46.88	1.55	7.24	H
	4160	-53.84	-13	-40.84	-76.15	-58.47	1.85	8.63	H
	4992	-53.74	-13	-40.74	-78.66	-58.94	2.33	9.68	H
									H
	1664	-30.05	-13	-17.05	-43.8	-31.76	0.98	4.84	V
	2496	-41.41	-13	-28.41	-60.37	-43.36	1.29	5.39	V
	3328	-44.48	-13	-31.48	-65.54	-48.02	1.55	7.24	V
	4160	-52.93	-13	-39.93	-75.38	-57.56	1.85	8.63	V
	4992	-54.30	-13	-41.30	-79.02	-59.5	2.33	9.68	V
									V



LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1680	-22.31	-13	-9.31	-35.74	-23.96	0.99	4.80	H
	2520	-26.30	-13	-13.30	-57.8	-28.27	1.30	5.42	H
	3360	-41.43	-13	-28.43	-62.44	-45.1	1.56	7.38	H
	4200	-49.88	-13	-36.88	-72.26	-54.49	1.88	8.64	H
	5040	-52.56	-13	-39.56	-77.64	-57.75	2.36	9.70	H
									H
	1680	-27.39	-13	-14.39	-41.28	-29.04	0.99	4.80	V
	2520	-39.21	-13	-26.21	-58.17	-41.18	1.30	5.42	V
	3360	-41.69	-13	-28.69	-62.86	-45.36	1.56	7.38	V
	4200	-47.76	-13	-34.76	-70.27	-52.37	1.88	8.64	V
	5040	-52.47	-13	-39.47	-77.37	-57.66	2.36	9.70	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)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-25.02	-13	-12.02	-36.51	-26.68	0.87	4.68	H
	2096	-38.64	-13	-25.64	-55.20	-39.51	1.16	4.19	H
	2800	-42.96	-13	-29.96	-61.88	-45.07	1.38	5.64	H
	3496	-53.24	-13	-40.24	-75.04	-57.47	1.60	7.98	H
	4200	-51.60	-13	-38.60	-73.98	-56.21	1.88	8.64	H
									H
	1400	-29.91	-13	-16.91	-41.87	-31.57	0.87	4.68	V
	2096	-39.55	-13	-26.55	-56.44	-40.42	1.16	4.19	V
	2800	-39.90	-13	-26.90	-59.60	-42.01	1.38	5.64	V
	3496	-52.04	-13	-39.04	-73.69	-56.27	1.60	7.98	V
	4200	-51.99	-13	-38.99	-74.50	-56.60	1.88	8.64	V
									V
Middle	1408	-24.48	-13	-11.48	-35.98	-26.19	0.87	4.73	H
	2112	-39.99	-13	-26.99	-56.63	-40.91	1.17	4.24	H
	2816	-41.77	-13	-28.77	-60.71	-43.88	1.39	5.65	H
	3512	-51.73	-13	-38.73	-73.53	-55.99	1.61	8.01	H
	4216	-52.66	-13	-39.66	-75.07	-57.27	1.89	8.64	H
									H
	1408	-28.46	-13	-15.46	-40.43	-30.17	0.87	4.73	V
	2112	-40.40	-13	-27.40	-57.38	-41.32	1.17	4.24	V
	2816	-40.26	-13	-27.26	-60.00	-42.37	1.39	5.65	V
	3512	-51.29	-13	-38.29	-72.95	-55.55	1.61	8.01	V
	4216	-51.91	-13	-38.91	-74.45	-56.52	1.89	8.64	V
									V



LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1416	-24.42	-13	-11.42	-35.92	-26.17	0.87	4.78	H
	2120	-39.84	-13	-26.84	-56.55	-40.78	1.17	4.26	H
	2824	-42.34	-13	-29.34	-61.28	-44.46	1.39	5.66	H
	3536	-51.87	-13	-38.87	-73.69	-56.15	1.62	8.04	H
	4240	-51.15	-13	-38.15	-73.63	-55.75	1.90	8.65	H
									H
	1416	-28.90	-13	-15.90	-40.87	-30.65	0.87	4.78	V
	2120	-41.22	-13	-28.22	-58.28	-42.16	1.17	4.26	V
	2824	-41.42	-13	-28.42	-61.16	-43.54	1.39	5.66	V
	3536	-52.42	-13	-39.42	-74.11	-56.70	1.62	8.04	V
	4240	-51.55	-13	-38.55	-74.16	-56.15	1.90	8.65	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)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-51.88	-13	-38.88	-64.16	-53.95	0.94	5.15	H
	2336	-50.93	-13	-37.93	-68.78	-52.45	1.24	4.91	H
	3112	-58.13	-13	-45.13	-77.80	-60.79	1.48	6.29	H
									H
									H
									H
	1552	-53.66	-13	-40.66	-66.46	-55.73	0.94	5.15	V
	2336	-52.53	-13	-39.53	-70.79	-54.05	1.24	4.91	V
	3112	-57.03	-13	-44.03	-77.46	-59.69	1.48	6.29	V
									V
									V
									V
Middle	1560	-48.41	-42.15	-6.26	-60.83	-50.45	0.94	5.13	H
	2336	-48.21	-13	-35.21	-66.06	-49.73	1.24	4.91	H
	3120	-57.62	-13	-44.62	-77.38	-60.31	1.49	6.33	H
									H
									H
									H
	1560	-50.49	-42.15	-8.34	-63.41	-52.53	0.94	5.13	V
	2336	-50.34	-13	-37.34	-68.60	-51.86	1.24	4.91	V
	3120	-56.99	-13	-43.99	-77.47	-59.68	1.49	6.33	V
									V
									V
									V



LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1568	-49.76	-42.15	-7.61	-62.19	-51.78	0.94	5.11	H
	2344	-35.68	-13	-22.68	-53.53	-37.22	1.24	4.93	H
	3910	-52.75	-13	-39.75	-74.68	-57.36	1.73	8.49	H
									H
									H
									H
	1568	-52.74	-42.15	-10.59	-65.67	-54.76	0.94	5.11	V
	2344	-47.99	-13	-34.99	-66.25	-49.53	1.24	4.93	V
	3910	-57.01	-13	-44.01	-79.07	-61.62	1.73	8.49	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)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-62.16	-13	-49.16	-74.38	-64.23	0.94	5.15	H
	2336	-58.89	-13	-45.89	-76.75	-60.41	1.24	4.91	H
	3112	-57.73	-13	-44.73	-77.56	-60.39	1.48	6.29	H
									H
									H
									H
	1552	-61.86	-13	-48.86	-74.69	-63.93	0.94	5.15	V
	2336	-57.53	-13	-44.53	-75.85	-59.05	1.24	4.91	V
	3112	-57.05	-13	-44.05	-77.56	-59.71	1.48	6.29	V
									V
									V
									V

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