



FCC RADIO TEST REPORT

FCC ID : 2AJN7-TP00141AUC
Equipment : Notebook Computer
Brand Name : Lenovo
Model Name : TP00141A
Applicant : LC Future Center Limited Taiwan Branch
7F., No.780, Beian Rd., Zhongshan Dist., Taipei
104, Taiwan
Manufacturer : LCFC (HeFei) Electronics Technology Co., Ltd.
No. 3188-1, Yungu Road (Hefei Export
Processing Zone), Hefei Economics &
Technology Development Area, Anhui, CHINA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Mar. 08, 2022 and testing was performed from Mar. 18, 2022 to Mar. 29, 2022. We, Sporton International Inc. Wensan 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory



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History of this test report

Report No.	Version	Description	Issued Date
FG1D0801-03B	01	Initial issue of report	Apr. 12, 2022
FG1D0801-03B	02	Revise Test Mode	Apr. 19, 2022

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) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	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	-	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 17) (Band 25) (Band 26) (Band 66) (Band 71)	-	See Note
	§2.1051 §27.53 (m)(4)	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)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (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 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 9.99 dB at 7764.000 MHz
	\$2.1051 \$27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Note:

1. The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
2. Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP/EIRP of this host product

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

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

Reviewed by: Sheng Kuo**Report Producer: Clio Lo**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00141A
FCC ID	2AJN7-TP00141AUC
Sample 1	EUT with ICT Antenna
Sample 2	EUT with Speed Antenna
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS 802.11a/b/g/n HT20/HT40 802.11ac VHT20/VHT40/VHT80/VHT160 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

WWAN Antenna Information				
Main Antenna	Manufacturer	ICT	Peak gain (dBi)	LTE Band 2 : -2.60 LTE Band 4 : -2.40 LTE Band 5 : -1.30 LTE Band 7 : -3.50 LTE Band 12 : -2.40 LTE Band 13 : 0.90 LTE Band 17 : -2.40 LTE Band 25 : -2.60 LTE Band 26 : -1.30 LTE Band 38 : -3.00 LTE Band 41 : -2.40 LTE Band 66 : -2.60 LTE Band 71 : -4.20
	Part number	DC33001XA00	Type	PIFA
	Manufacturer	Speed	Peak gain (dBi)	LTE Band 2 : -0.38 LTE Band 4 : 0.64 LTE Band 5 : 0.50 LTE Band 7 : 0.47 LTE Band 12 : -2.33 LTE Band 13 : 0.94 LTE Band 17 : -2.33 LTE Band 25 : -0.38 LTE Band 26 : 1.70 LTE Band 38 : -0.41 LTE Band 41 : 0.40 LTE Band 66 : 0.36 LTE Band 71 : -3.68
	Part number	DC33001X900	Type	PIFA

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The output power measurement was performed with "ICT Antenna", and performed with "Speed Antenna" in radiated spurious emission test as representative.

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7MHz ~ 1914.3 MHz LTE Band 26: 824.7MHz ~ 848.3 MHz LTE Band 38: 2572.5MHz ~ 2617.5MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7MHz ~ 1994.3 MHz LTE Band 26: 869.7MHz ~ 893.3MHz LTE Band 38: 2572.5MHz ~ 2617.5MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5 MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7: 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz

Product Specification is subject to this standard	
Maximum Output Power to Antenna	LTE Band 2 : 23.32 dBm LTE Band 4 : 22.98 dBm LTE Band 5 : 22.92 dBm LTE Band 5B : 23.06 dBm LTE Band 7 : 23.26 dBm LTE Band 7C : 23.95 dBm LTE Band 12 : 22.86 dBm LTE Band 13 : 22.73 dBm LTE Band 17 : 22.85 dBm LTE Band 25 : 23.32 dBm LTE Band 26 : 22.93 dBm LTE Band 38 : 23.46 dBm LTE Band 38C : 23.57 dBm LTE Band 41 (HPUE) : 25.35 dBm LTE Band 41C : 23.63 dBm LTE Band 66 : 22.99 dBm LTE Band 66B : 22.98 dBm LTE Band 66C : 22.65 dBm LTE Band 71 : 22.87 dBm
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333
Test Site No.	Sporton Site No.
	TH03-HY (TAF Code: 1190)
Test Engineer	HaoEn Zhang
Temperature (°C)	22.1~23.4
Relative Humidity (%)	51.8~55.6
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010
Test Site No.	Sporton Site No.
	03CH20-HY
Test Engineer	Bill Chang, JC Liang and Bigshow Wang
Temperature (°C)	18~21
Relative Humidity (%)	68~70

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

FCC Designation No.: TW1190 and TW3786

1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 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.

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
	4	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v		v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v		v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v		v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v		v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v		v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	71	-	-	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						
	5	v	v	v	v	-	-	v	v	v						
	7	-	-	v	v	v	v	v	v	v						
	12	v	v	v	v	-	-	v	v	v						
	13	-	-	v	v	-	-	v	v	v						
	17	-	-	v	v	-	-	v	v	v						
	25	v	v	v	v	v	v	v	v	v						
	26	v	v	v	v	v	-	v	v	v						
	38	-	-	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						
	71	-	-	v	v	v	v	v	v	v						



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	Covered by Band 25														
	4	Covered by Band 66														
	5	Covered by Band 26														
	7	-	-		v			v			v			v	v	v
	12				v	-	-	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	17	Covered by Band 12														
	25				v			v			v			v	v	v
	26				v		-	v			v			v	v	v
	38	Covered by Band 41														
	41	-	-		v			v			v			v	v	v
	66				v			v			v			v	v	v
	71	-	-		v			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. 4. Wider operating range bandwidth covers narrower one when the power is higher or the same. 5. All the radiated test cases were performed with Battery 2 and Sample 2.															



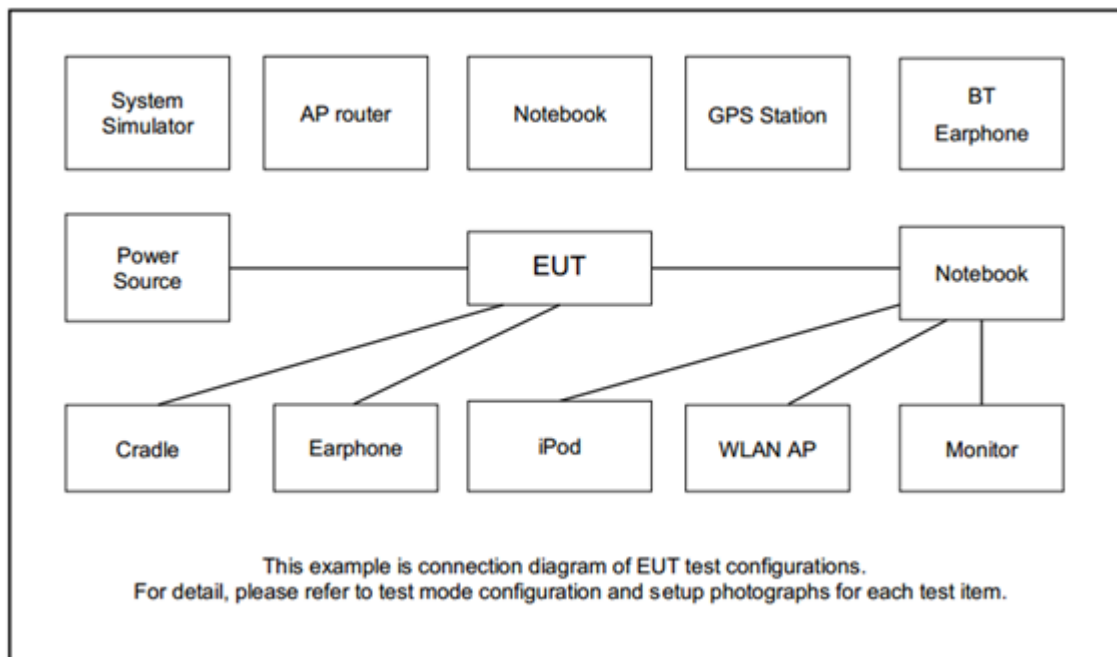
Test Items	Band	Bandwidth (MHz)					Modulation			RB #			Test Channel		
		3+5	5+3	5+10	10+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	5B_CA					v	v	v	v	v		v	v	v	v
E.R.P.	5B_CA					v	v	v	v	Max. Power					
Radiated Spurious Emission	5B_CA					v	v			v			v	v	v
Remark	1. The mark "v" means 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. 4. All the radiated test cases were performed with Battery 2 and Sample 2.														

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	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v	v	v
	38C_CA	v	-	-	-	-	-	-		-	-	v	v	v	v			v	v	v
	41C_CA	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
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	Max. Power					
	38C_CA	v	-	-	-	-	-	-		-	-	v	v	v						
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v						
	66C_CA	v										v	v	v						
Radiated Spurious Emission	7C_CA	v										v			v			v	v	v
	38C_CA	Covered by Band 41C																		
	41C_CA	v										v			v			v	v	v
	66C_CA	v										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. 4. Wider operating range bandwidth covers narrower one when the power is higher or the same. 5. All the radiated test cases were performed with Battery 2 and Sample 2.																			



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		5+5	5+10	10+5	5+15	15+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	66B_CA					v		v	v	v	v		v	v	v	v
E.I.R.P.	66B_CA					v		v	v	v	Max. Power					
Radiated Spurious Emission	66B_CA					v		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. 4. All the radiated test cases were performed with Battery 2 and Sample 2.															

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

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

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



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

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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



LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



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

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

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



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

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 5B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829.0	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844.0



LTE Band 7C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 38C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0

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	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 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



LTE Band 66B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	133391	132642
		Frequency	1726.8	1761.9	1777.0
10 + 10	PCC	Channel	132022	132373	135523
		Frequency	1715.0	1750.1	1765.1
	SCC	Channel	132121	133372	132622
		Frequency	1724.9	1760.0	1775.0



LTE Band 66C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	133371	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	133393	132619
		Frequency	1729.5	1761.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	131171	133372	132572
		Frequency	1729.9	1760.0	1770.0
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720.0	1750.1	1760.1
	SCC	Channel	132216	133417	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	133397	132597
		Frequency	1732.5	1762.5	1772.5
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720.0	1747.6	1755.1
	SCC	Channel	132243	133419	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720.0	1752.5	1765.0
	SCC	Channel	132189	133414	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
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720.0	1745.1	1750.2
	SCC	Channel	132270	133421	132572
		Frequency	1739.8	1764.9	1770.0

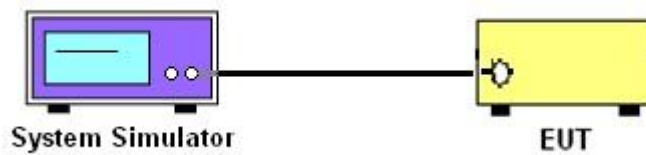
3 Conducted Test Items

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 mobile transmitters must not exceed 3 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 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.

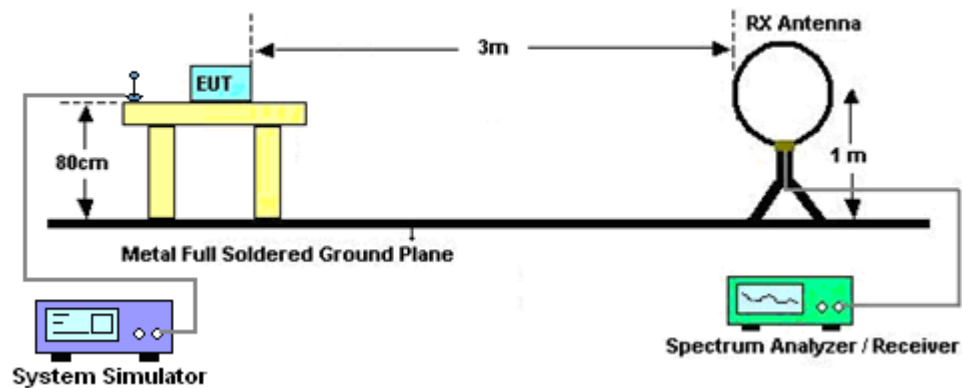
4 Radiated Test Items

4.1 Measuring Instruments

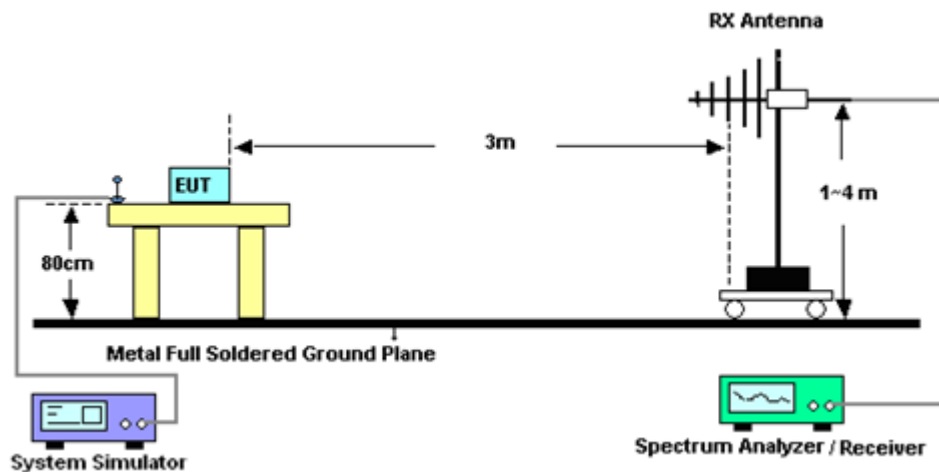
See list of measuring instruments of this test report.

4.1.1 Test Setup

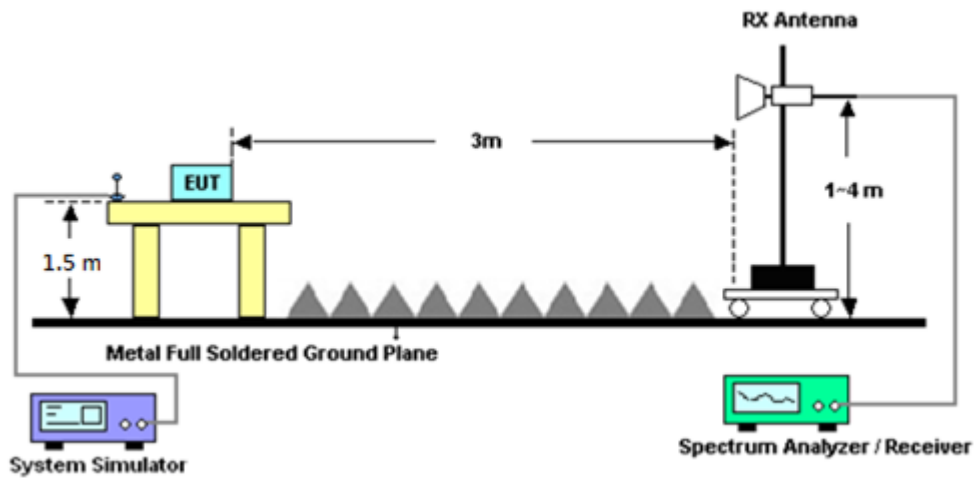
For radiated test below 30MHz



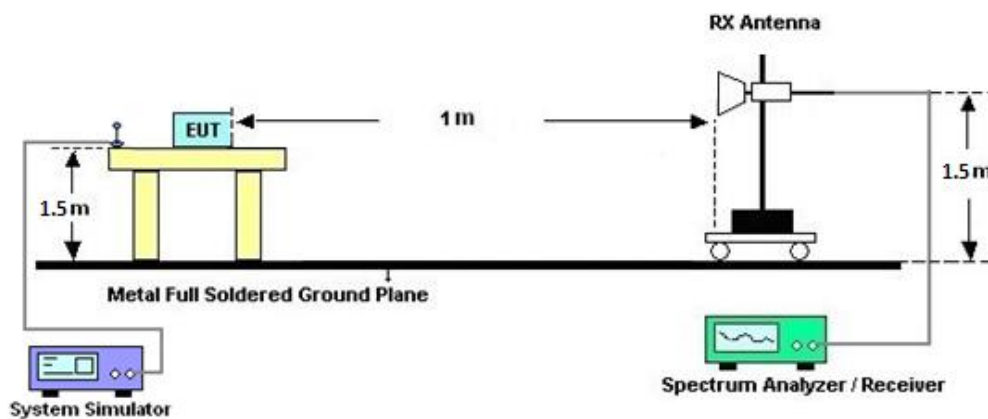
For radiated test from 30MHz to 1GHz



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 7, 38, 41

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

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 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 7, 38, 41

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

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

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	Mar. 26, 2022~ Mar. 29, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz~1000MHz	Jan. 03, 2022	Mar. 26, 2022~ Mar. 29, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 15, 2021	Mar. 26, 2022~ Mar. 29, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Mar. 26, 2022~ Mar. 29, 2022	Dec. 23, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Mar. 26, 2022~ Mar. 29, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Mar. 26, 2022~ Mar. 29, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Mar. 26, 2022~ Mar. 29, 2022	Oct. 08, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	Mar. 26, 2022~ Mar. 29, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 02, 2021	Mar. 26, 2022~ Mar. 29, 2022	Nov. 01, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz~40GHz	May 12, 2021	Mar. 26, 2022~ Mar. 29, 2022	May 11, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Mar. 26, 2022~ Mar. 29, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200879	N/A	Sep. 30, 2021	Mar. 26, 2022~ Mar. 29, 2022	Sep. 29, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80 4015/2,8040 27/2	N/A	Jan. 19, 2022	Mar. 26, 2022~ Mar. 29, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80 4015/2,8040 27/2	N/A	Jan. 19, 2022	Mar. 26, 2022~ Mar. 29, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Mar. 26, 2022~ Mar. 29, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 26, 2022~ Mar. 29, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 26, 2022~ Mar. 29, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 26, 2022~ Mar. 29, 2022	N/A	Radiation (03CH20-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 08, 2021	Mar. 26, 2022~ Mar. 29, 2022	Dec. 07, 2022	Radiation (03CH20-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Oct. 05, 2021	Mar. 18, 2022~ Mar. 25, 2022	Oct. 04, 2022	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 13, 2021	Mar. 18, 2022~ Mar. 25, 2022	Jul. 12, 2022	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Mar. 18, 2022~ Mar. 25, 2022	Jan. 06, 2023	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% ($U = 2U_c(y)$)	3.33 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.40 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.43 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 = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.23	22.65	23.31	22.93	0.1963
20	1	99		22.65	21.86	23.26		
20	100	0		21.85	21.22	21.65		
20	1	0	16-QAM	22.66	23.32	22.52	22.94	0.1968
20	1	0	64-QAM	21.33	20.89	21.66	21.28	0.1343
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.05	22.75	23.15	22.77	0.1892
15	1	0	16-QAM	22.65	21.65	22.44	22.27	0.1687
15	1	0	64-QAM	21.36	21.23	21.52	21.14	0.1300
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.79	22.86	22.58	22.48	0.1770
10	1	0	16-QAM	22.06	22.18	21.89	21.8	0.1514
10	1	0	64-QAM	21.32	20.86	20.73	20.94	0.1242
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.11	23.02	22.95	22.73	0.1875
5	1	0	16-QAM	22.12	22.23	22.25	21.87	0.1538
5	1	0	64-QAM	21.52	21.25	21.36	21.14	0.1300
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.96	23.06	23.09	22.71	0.1866
3	1	0	16-QAM	22.03	22.32	22.16	21.94	0.1563
3	1	0	64-QAM	21.25	21.56	21.36	21.18	0.1312
Limit	EIRP < 2W			Result			Pass	

**FCC RADIO TEST REPORT**

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LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.05	23.16	23.25	22.87	0.1936
1.4	1	0	16-QAM	22.32	22.36	22.44	22.06	0.1607
1.4	1	0	64-QAM	22.13	21.23	21.25	21.75	0.1496
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.77	22.85	23.32	22.94	0.1968
20	1	99		22.82	23.06	22.63		
20	100	0		21.87	22.05	22.13		
20	1	0	16-QAM	22.01	21.87	22.63	22.25	0.1679
20	1	0	64-QAM	21.32	21.23	21.37	20.99	0.1256
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.63	22.73	22.85	22.47	0.1766
15	1	0	16-QAM	21.68	22.25	21.87	21.87	0.1538
15	1	0	64-QAM	20.96	21.21	21.12	20.83	0.1211
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.72	22.68	22.72	22.34	0.1714
10	1	0	16-QAM	21.86	21.82	21.63	21.48	0.1406
10	1	0	64-QAM	20.85	21.03	20.85	20.65	0.1161
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.63	22.65	23.13	22.75	0.1884
5	1	0	16-QAM	22.12	21.85	22.62	22.24	0.1675
5	1	0	64-QAM	20.87	20.69	21.36	20.98	0.1253
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.63	22.56	22.93	22.55	0.1799
3	1	0	16-QAM	21.85	21.86	21.93	21.55	0.1429
3	1	0	64-QAM	20.32	20.78	21.32	20.94	0.1242
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.63	22.63	22.66	22.28	0.1690
1.4	1	0	16-QAM	21.56	21.68	21.92	21.54	0.1426
1.4	1	0	64-QAM	20.72	20.86	20.68	20.48	0.1117
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.98	22.78	22.89	23.62	0.2301
20	1	99		22.63	22.86	22.85		
20	100	0		21.77	21.79	21.96		
20	1	0	16-QAM	22.56	22.26	22.56	23.20	0.2089
20	1	0	64-QAM	21.65	20.80	21.25	22.29	0.1694
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.86	22.59	22.79	23.50	0.2239
15	1	0	16-QAM	22.38	22.21	21.58	23.02	0.2004
15	1	0	64-QAM	21.36	20.65	20.72	22.00	0.1585
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.78	22.60	22.89	23.53	0.2254
10	1	0	16-QAM	21.85	21.65	21.98	22.62	0.1828
10	1	0	64-QAM	21.18	20.85	21.36	22.00	0.1585
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.96	22.67	22.96	23.60	0.2291
5	1	0	16-QAM	22.16	21.69	22.22	22.86	0.1932
5	1	0	64-QAM	21.33	21.21	21.16	21.97	0.1574
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.82	22.44	22.77	23.46	0.2218
3	1	0	16-QAM	21.63	21.63	21.65	22.29	0.1694
3	1	0	64-QAM	20.86	20.75	21.18	21.82	0.1521
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.64 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.63	22.68	22.78	23.42	0.2198
1.4	1	0	16-QAM	21.65	21.75	22.13	22.77	0.1892
1.4	1	0	64-QAM	21.23	20.63	21.36	22.00	0.1585
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.86	22.92	22.83	21.27	0.1340
10	1	49		22.75	22.73	22.63		
10	50	0		21.78	21.82	21.83		
10	1	0	16-QAM	21.85	21.89	21.86	20.24	0.1057
10	1	0	64-QAM	21.32	21.26	21.66	20.01	0.1002
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.78	22.76	22.77	21.13	0.1297
5	1	0	16-QAM	21.85	21.88	21.85	20.23	0.1054
5	1	0	64-QAM	21.25	21.56	21.36	19.91	0.0979
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.75	22.78	22.91	21.26	0.1337
3	1	0	16-QAM	21.86	21.66	22.22	20.57	0.1140
3	1	0	64-QAM	21.65	21.36	21.63	20	0.1000
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.78	22.86	22.86	21.21	0.1321
1.4	1	0	16-QAM	21.85	21.36	21.63	20.2	0.1047
1.4	1	0	64-QAM	20.96	21.26	21.35	19.7	0.0933
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.12	23.26	22.77	23.73	0.2360
20	1	99		23.03	22.86	23.26		
20	100	0		22.12	22.44	22.13		
20	1	0	16-QAM	22.56	22.76	21.87	23.23	0.2104
20	1	0	64-QAM	21.22	21.59	20.86	22.06	0.1607
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.13	23.22	22.89	23.69	0.2339
15	1	0	16-QAM	22.56	22.58	22.12	23.05	0.2018
15	1	0	64-QAM	21.58	21.36	21.23	22.05	0.1603
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.23	23.23	23.13	23.70	0.2344
10	1	0	16-QAM	22.58	22.52	22.52	23.05	0.2018
10	1	0	64-QAM	21.21	21.62	21.52	22.09	0.1618
Limit	EIRP < 2W			Result			Pass	

LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.47 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.06	23.23	23.12	23.70	0.2344
5	1	0	16-QAM	22.55	22.44	22.56	23.03	0.2009
5	1	0	64-QAM	21.85	21.56	21.52	22.32	0.1706
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.58	22.86	22.72	18.38	0.0689
10	1	49		22.62	22.56	22.63		
10	50	0		21.72	21.58	21.68		
10	1	0	16-QAM	21.65	22.21	21.85	17.73	0.0593
10	1	0	64-QAM	20.75	21.97	20.65	17.49	0.0561
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.63	22.69	22.63	18.21	0.0662
5	1	0	16-QAM	21.86	21.86	21.75	17.38	0.0547
5	1	0	64-QAM	20.96	20.96	21.13	16.65	0.0462
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.63	22.63	22.66	18.18	0.0658
3	1	0	16-QAM	21.86	21.85	21.86	17.38	0.0547
3	1	0	64-QAM	20.75	20.96	20.96	16.48	0.0445
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.56	22.68	22.69	18.21	0.0662
1.4	1	0	16-QAM	21.87	21.86	22.20	17.72	0.0592
1.4	1	0	64-QAM	21.86	20.96	20.98	17.38	0.0547
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.94 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	22.73	-	21.52	0.1419
10	1	49			22.56			
10	50	0			21.65			
10	1	0	16-QAM	-	21.86	-	20.65	0.1161
10	1	0	64-QAM		20.97		19.76	0.0946
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.94 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.52	22.65	22.72	21.51	0.1416
5	1	0	16-QAM	21.52	21.85	21.36	20.64	0.1159
5	1	0	64-QAM	20.96	20.96	20.56	19.75	0.0944
Limit	ERP < 3W			Result			Pass	



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LTE Band 17 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.85	22.63	22.75	18.37	0.0687
10	1	49		22.72	22.69	22.32		
10	50	0		21.62	21.65	21.82		
10	1	0	16-QAM	21.87	21.36	21.65	17.39	0.0548
10	1	0	64-QAM	21.32	20.85	21.12	16.84	0.0483
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -2.33 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.82	22.72	22.63	18.34	0.0682
5	1	0	16-QAM	21.86	21.69	21.71	17.38	0.0547
5	1	0	64-QAM	20.86	20.78	20.65	16.38	0.0435
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.63	22.66	22.93	22.48	0.1770
15	1	74		22.76	22.56	22.63		
15	75	0		21.86	21.78	21.68		
15	1	0	16-QAM	20.85	21.72	21.52	21.27	0.1340
15	1	0	64-QAM	19.69	20.89	20.23	20.44	0.1107
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.75	22.76	22.73	22.31	0.1702
10	1	0	16-QAM	21.36	21.32	21.56	21.11	0.1291
10	1	0	64-QAM	20.63	20.53	20.25	20.18	0.1042
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.63	22.76	22.68	22.31	0.1702
5	1	0	16-QAM	21.71	21.35	21.52	21.26	0.1337
5	1	0	64-QAM	20.68	20.35	20.36	20.23	0.1054
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.66	22.77	22.76	22.32	0.1706
3	1	0	16-QAM	21.32	21.32	21.36	20.91	0.1233
3	1	0	64-QAM	20.85	20.25	20.33	20.4	0.1096
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.69	22.76	22.86	22.41	0.1742
1.4	1	0	16-QAM	21.32	21.32	21.63	21.18	0.1312
1.4	1	0	64-QAM	20.23	20.32	20.65	20.2	0.1047
Limit	ERP < 7W			Result			Pass	



LTE Band 38 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	23.44	23.46	23.26	23.05	0.2018
20	1	99		23.39	23.21	23.13		
20	100	0		23.35	22.25	22.15		
20	1	0	16-QAM	22.32	22.86	22.36	22.45	0.1758
20	1	0	64-QAM	21.36	21.58	21.52	21.17	0.1309
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 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	23.44	23.36	23.21	23.03	0.2009
15	1	0	16-QAM	22.56	22.52	22.39	22.15	0.1641
15	1	0	64-QAM	21.36	21.23	21.82	21.41	0.1384
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 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	23.13	23.25	23.13	22.84	0.1923
10	1	0	16-QAM	22.52	22.36	22.03	22.11	0.1626
10	1	0	64-QAM	21.63	21.32	21.29	21.22	0.1324
Limit	EIRP < 2W			Result			Pass	

LTE Band 38 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	23.36	23.26	23.13	22.95	0.1972
5	1	0	16-QAM	22.63	22.56	22.36	22.22	0.1667
5	1	0	64-QAM	21.58	21.63	21.36	21.22	0.1324
Limit	EIRP < 2W			Result			Pass	



LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	25.35	25.32	24.85	25.75	0.3758
20	1	99		25.03	25.09	24.87		
20	100	0		24.26	24.32	24.36		
20	1	0	16-QAM	24.56	24.62	24.52	25.02	0.3177
20	1	0	64-QAM	23.69	23.58	23.55	24.09	0.2564
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	25.33	25.32	24.96	25.73	0.3741
15	1	0	16-QAM	24.69	24.44	24.32	25.09	0.3228
15	1	0	64-QAM	23.75	23.51	23.36	24.15	0.2600
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	25.35	25.33	24.96	25.75	0.3758
10	1	0	16-QAM	24.77	24.86	24.25	25.26	0.3357
10	1	0	64-QAM	23.63	23.63	23.25	24.03	0.2529
Limit	EIRP < 2W			Result			Pass	

LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	25.26	25.22	24.96	25.66	0.3681
5	1	0	16-QAM	24.32	24.23	24.32	24.72	0.2965
5	1	0	64-QAM	23.36	23.63	23.63	24.03	0.2529
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.99	22.76	22.63	23.35	0.2163
20	1	99		22.63	22.85	22.87		
20	100	0		21.56	21.96	21.79		
20	1	0	16-QAM	22.32	21.65	21.60	22.68	0.1854
20	1	0	64-QAM	21.70	20.82	20.85	22.06	0.1607
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.86	22.68	22.36	23.22	0.2099
15	1	0	16-QAM	22.12	22.06	21.89	22.48	0.1770
15	1	0	64-QAM	21.69	21.16	21.02	22.05	0.1603
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.78	22.75	22.52	23.14	0.2061
10	1	0	16-QAM	21.86	21.65	21.76	22.22	0.1667
10	1	0	64-QAM	20.85	20.63	20.56	21.21	0.1321
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.85	22.77	22.72	23.21	0.2094
5	1	0	16-QAM	21.76	21.63	21.58	22.12	0.1629
5	1	0	64-QAM	20.65	20.71	20.36	21.07	0.1279
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.77	22.63	22.76	23.13	0.2056
3	1	0	16-QAM	21.63	21.68	21.63	22.04	0.1600
3	1	0	64-QAM	20.73	20.32	20.58	21.09	0.1285
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.76	22.73	22.72	23.12	0.2051
1.4	1	0	16-QAM	21.32	21.58	21.54	21.94	0.1563
1.4	1	0	64-QAM	20.69	20.54	20.57	21.05	0.1274
Limit	EIRP < 1W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -3.68 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.87	22.63	22.63	17.04	0.0506
20	1	99		22.56	22.32	22.02		
20	100	0		21.58	21.96	21.63		
20	1	0	16-QAM	21.32	21.36	21.97	16.14	0.0411
20	1	0	64-QAM	20.36	20.97	20.69	15.14	0.0327
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -3.68 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.44	22.74	22.77	16.94	0.0494
15	1	0	16-QAM	21.56	21.58	21.96	16.13	0.0410
15	1	0	64-QAM	20.96	20.74	20.58	15.13	0.0326
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -3.68 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.36	22.82	22.86	17.03	0.0505
10	1	0	16-QAM	21.86	21.65	21.54	16.03	0.0401
10	1	0	64-QAM	20.66	20.69	20.38	14.86	0.0306
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -3.68 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.58	22.58	22.39	16.75	0.0473
5	1	0	16-QAM	21.52	21.63	21.85	16.02	0.0400
5	1	0	64-QAM	20.36	20.71	20.36	14.88	0.0308
Limit	ERP < 3W			Result			Pass	



LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 0.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	20.67	20.58	20.64	21.41	0.1384
10+10	1	0	1	49		12.48	12.25	12.30		
10+10	1	49	1	0		22.50	23.06	22.57		
10+10	1	0	1	49	16-QAM	13.21	12.64	12.10	20.71	0.1178
10+10	1	49	1	0		21.93	22.36	21.65		
10+10	1	0	1	49	64-QAM	12.36	12.43	12.46	19.49	0.0889
10+10	1	49	1	0		20.71	20.83	21.14		
Limit	ERP < 7W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG1D0801-03B

LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 0.36 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+5	75	0	25	0	QPSK	22.98	22.24	22.13	23.34	0.2158
15+5	1	0	1	24		22.15	22.19	22.13		
15+5	1	74	1	0		21.65	22.78	22.65		
15+5	1	0	1	24	16-QAM	22.50	22.10	22.16	23.13	0.2056
15+5	1	74	1	0		22.51	22.77	22.57		
15+5	1	0	1	24	64-QAM	22.44	22.13	22.56	22.92	0.1959
15+5	1	74	1	0		22.31	22.50	22.26		
Limit	EIRP < 1W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG1D0801-03B

LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 0.36 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	20.51	20.31	20.43	23.01	0.2000
20+20	1	0	1	99		13.74	13.42	13.52		
20+20	1	99	1	0		22.36	22.65	22.47		
20+20	1	0	1	99	16-QAM	14.13	14.10	13.48	22.25	0.1679
20+20	1	99	1	0		21.32	21.89	21.41		
20+20	1	0	1	99	64-QAM	14.48	13.87	14.19	21.48	0.1406
20+20	1	99	1	0		20.69	20.88	21.12		
Limit	EIRP < 1W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.47 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	21.86	21.85	22.13	24.42	0.2767
20+20	1	0	1	99		15.12	14.96	15.03		
20+20	1	99	1	0		23.91	23.79	23.95		
20+20	1	0	1	99	16-QAM	15.32	15.55	15.65	24.13	0.2588
20+20	1	99	1	0		23.66	23.26	23.36		
20+20	1	0	1	99	64-QAM	15.13	15.12	15.52	22.69	0.1858
20+20	1	99	1	0		22.21	22.03	22.22		
20+15	100	0	75	0	QPSK	20.40	20.23	20.37	22.85	0.1928
20+15	1	0	1	74		13.93	13.36	13.81		
20+15	1	99	1	0		22.36	22.38	22.13		
20+15	1	0	1	74	16-QAM	14.26	13.96	13.64	22.67	0.1849
20+15	1	99	1	0		22.20	21.80	21.83		
15+20	75	0	100	0	QPSK	20.41	20.34	20.33	23.83	0.2415
15+20	1	0	1	99		13.46	13.05	13.75		
15+20	1	74	1	0		22.82	22.19	23.36		
15+20	1	0	1	99	16-QAM	13.70	13.83	14.30	22.32	0.1706
15+20	1	74	1	0		21.60	21.66	21.85		
Limit	EIRP < 2W					Result			Pass	

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.47 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	75	0	QPSK	20.34	20.22	20.31	22.86	0.1932
20+10	1	0	1	74		13.71	13.70	13.76		
20+10	1	99	1	0		22.31	22.18	22.39		
20+10	1	0	1	74	16-QAM	14.31	13.98	14.21	22.75	0.1884
20+10	1	99	1	0		21.74	21.42	22.28		
10+20	75	0	100	0	QPSK	20.31	20.24	20.12	22.82	0.1914
10+20	1	0	1	99		13.58	13.70	13.71		
10+20	1	74	1	0		22.35	22.19	22.35		
10+20	1	0	1	99	16-QAM	14.49	13.92	13.52	22.01	0.1589
10+20	1	74	1	0		21.28	21.49	21.54		
15+15	75	0	100	0	QPSK	20.35	20.24	20.30	22.83	0.1919
15+15	1	0	1	99		13.64	13.67	13.67		
15+15	1	74	1	0		22.36	22.10	22.31		
15+15	1	0	1	99	16-QAM	14.06	13.82	13.83	22.48	0.1770
15+15	1	74	1	0		22.01	21.49	21.39		
Limit	EIRP < 2W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.47 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	100	0	QPSK	20.34	20.15	20.31	22.78	0.1897
15+10	1	0	1	99		13.80	20.32	13.94		
15+10	1	74	1	0		22.31	22.23	22.27		
15+10	1	0	1	99	16-QAM	13.78	19.36	14.28	22.41	0.1742
15+10	1	74	1	0		21.40	21.94	21.69		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.4 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	21.59	21.19	21.31	24.03	0.2529
20+20	1	0	1	99		15.03	14.42	14.62		
20+20	1	99	1	0		23.63	23.18	23.14		
20+20	1	0	1	99	16-QAM	15.22	14.77	15.29	23.51	0.2244
20+20	1	99	1	0		23.11	22.81	22.47		
20+20	1	0	1	99	64-QAM	15.55	14.54	15.25	23.43	0.2203
20+20	1	99	1	0		23.03	21.63	21.58		
20+15	100	0	75	0	QPSK	21.49	21.13	21.16	23.91	0.2460
20+15	1	0	1	74		14.88	14.47	14.72		
20+15	1	99	1	0		23.51	23.22	22.96		
20+15	1	0	1	74	16-QAM	15.44	15.09	14.88	23.49	0.2234
20+15	1	99	1	0		23.09	22.97	22.82		
15+20	75	0	100	0	QPSK	21.48	21.28	21.08	23.73	0.2360
15+20	1	0	1	99		14.79	14.59	14.57		
15+20	1	74	1	0		22.41	23.33	23.01		
15+20	1	0	1	99	16-QAM	15.38	15.28	14.64	23.21	0.2094
15+20	1	74	1	0		22.39	22.81	22.55		
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.4 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	21.41	21.14	21.11	23.90	0.2455
20+10	1	0	1	49		14.89	14.55	14.78		
20+10	1	99	1	0		23.50	23.32	22.95		
20+10	1	0	1	49	16-QAM	15.44	15.17	15.14	23.66	0.2323
20+10	1	99	1	0		23.26	22.61	22.24		
10+20	50	0	100	0	QPSK	21.32	21.17	21.10	23.95	0.2483
10+20	1	0	1	99		14.85	14.45	14.61		
10+20	1	49	1	0		23.55	23.12	23.06		
10+20	1	0	1	99	16-QAM	15.36	14.94	15.24	23.78	0.2388
10+20	1	49	1	0		23.38	22.67	22.68		
20+5	100	0	25	0	QPSK	21.54	21.21	20.99	23.62	0.2301
20+5	1	0	1	24		14.98	14.62	14.67		
20+5	1	99	1	0		22.68	23.22	22.72		
20+5	1	0	1	24	16-QAM	15.47	15.32	15.41	23.59	0.2286
20+5	1	99	1	0		23.19	22.79	22.56		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.4 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	21.47	21.18	21.06	23.04	0.2014
5+20	1	0	1	99		14.82	14.47	14.61		
5+20	1	24	1	0		22.13	22.64	22.58		
5+20	1	0	1	99	16-QAM	22.86	15.05	15.07	23.26	0.2118
5+20	1	24	1	0		22.51	22.39	22.29		
15+10	75	0	50	0	QPSK	21.44	21.11	20.99	23.99	0.2506
15+10	1	0	1	49		14.85	14.52	14.71		
15+10	1	74	1	0		23.59	23.09	22.88		
15+10	1	0	1	49	16-QAM	15.36	15.05	15.32	23.48	0.2228
15+10	1	74	1	0		23.08	22.64	21.83		
10+15	50	0	75	0	QPSK	21.41	21.16	21.11	23.85	0.2427
10+15	1	0	1	74		14.87	14.64	14.57		
10+15	1	49	1	0		23.45	23.25	23.02		
10+15	1	0	1	74	16-QAM	15.28	14.95	14.90	23.53	0.2254
10+15	1	49	1	0		23.13	22.44	22.59		
Limit	EIRP < 2W					Result			Pass	

LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.4 dB)										
15+15	75	0	75	0	QPSK	20.76	21.08	21.07	23.86	0.2432
15+15	1	0	1	74		14.88	14.43	14.61		
15+15	1	74	1	0		23.46	23.26	22.97		
15+15	1	0	1	74	16-QAM	15.36	14.96	14.78	23.51	0.2244
15+15	1	74	1	0		23.11	22.61	22.47		
Limit	EIRP < 2W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG1D0801-03B

LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = -0.41 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	23.57	23.52	23.55	23.16	0.2070
20+20	1	99	1	0	16-QAM	22.58	22.49	22.44	22.17	0.1648
20+20	1	99	1	0	64-QAM	21.54	21.46	21.46	21.13	0.1297
Limit	EIRP < 2W					Result			Pass	



Appendix B. Test Results of Radiated Test

LTE Band 5B

LTE Band 5B / 10MHz+10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1666	-64.96	-13	-51.96	-74.82	-67.46	4.95	9.60	H
	2504	-52.43	-13	-39.43	-65.44	-54.67	6.11	10.50	H
	3336	-62.27	-13	-49.27	-78.78	-64.22	7.07	11.17	H
									H
									H
									H
	1666	-66.29	-13	-53.29	-75.94	-68.79	4.95	9.60	V
	2504	-52.15	-13	-39.15	-65.06	-54.39	6.11	10.50	V
	3336	-62.99	-13	-49.99	-79.25	-64.94	7.07	11.17	V
									V
									V
									V
Middle	1672	-65.36	-13	-52.36	-75.22	-67.88	4.96	9.63	H
	2512	-51.68	-13	-38.68	-64.75	-53.91	6.12	10.50	H
	3344	-62.30	-13	-49.30	-78.8	-64.26	7.08	11.19	H
									H
									H
									H
	1672	-65.39	-13	-52.39	-75.03	-67.91	4.96	9.63	V
	2512	-50.89	-13	-37.89	-63.86	-53.12	6.12	10.50	V
	3344	-62.90	-13	-49.90	-79.15	-64.86	7.08	11.19	V
									V
									V
									V



Highest	1677	-65.11	-13	-52.11	-74.98	-67.66	4.96	9.66	H
	2520	-52.32	-13	-39.32	-65.44	-54.54	6.13	10.50	H
	3352	-62.44	-13	-49.44	-78.92	-64.40	7.09	11.20	H
									H
									H
									H
	1677	-65.64	-13	-52.64	-75.29	-68.19	4.96	9.66	V
	2520	-53.22	-13	-40.22	-66.23	-55.44	6.13	10.50	V
	3352	-62.55	-13	-49.55	-78.78	-64.51	7.09	11.20	V
									V
									V
									V

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

**LTE Band 7**

LTE Band 7 / 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	5004	-54.97	-25	-29.97	-76.61	-57.46	8.71	11.20	H
	7500	-43.82	-25	-18.82	-70.17	-44.57	10.75	11.50	H
	10008	-53.16	-25	-28.16	-81.7	-51.66	12.46	10.96	H
									H
									H
									H
									H
	5004	-51.69	-25	-26.69	-73.3	-54.18	8.71	11.20	V
	7500	-37.28	-25	-12.28	-63.83	-38.03	10.75	11.50	V
	10008	-53.78	-25	-28.78	-81.4	-52.28	12.46	10.96	V
									V
									V
									V
									V
Middle	5064	-56.98	-25	-31.98	-78.69	-59.47	8.77	11.26	H
	7590	-46.22	-25	-21.22	-72.69	-47.10	10.82	11.70	H
	10120	-52.49	-25	-27.49	-81.08	-51.52	12.55	11.58	H
									H
									H
									H
									H
	5064	-50.98	-25	-25.98	-72.66	-53.47	8.77	11.26	V
	7590	-42.19	-25	-17.19	-68.95	-43.07	10.82	11.70	V
	10120	-53.66	-25	-28.66	-81.37	-52.69	12.55	11.58	V
									V
									V
									V
									V



Highest	5124	-56.15	-25	-31.15	-77.93	-58.88	8.82	11.54	H
	7680	-45.56	-25	-20.56	-72.22	-46.16	10.88	11.48	H
	10248	-52.86	-25	-27.86	-81.51	-51.81	12.65	11.60	H
									H
									H
									H
									H
	5124	-52.23	-25	-27.23	-73.96	-54.96	8.82	11.54	V
	7680	-37.97	-25	-12.97	-64.86	-38.57	10.88	11.48	V
	10248	-53.36	-25	-28.36	-81.18	-52.31	12.65	11.60	V
									V
									V
									V
									V

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

**LTE Band 7C**

LTE Band 7 / 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	5040	-57.49	-25	-32.49	-79.17	-59.95	8.74	11.20	H
	7554	-46.07	-25	-21.07	-72.49	-46.98	10.79	11.70	H
	10072	-53.15	-25	-28.15	-81.73	-52.05	12.51	11.40	H
									H
									H
									H
									H
	5040	-55.79	-25	-30.79	-77.44	-58.25	8.74	11.20	V
	7554	-40.16	-25	-15.16	-66.84	-41.07	10.79	11.70	V
	10072	-53.44	-25	-28.44	-81.12	-52.34	12.51	11.40	V
									V
									V
									V
									V
Middle	5070	-56.73	-25	-31.73	-78.44	-59.24	8.77	11.28	H
	7602	-43.76	-25	-18.76	-70.26	-44.63	10.83	11.70	H
	10140	-52.35	-25	-27.35	-80.95	-51.35	12.56	11.56	H
									H
									H
									H
									H
	5070	-55.10	-25	-30.10	-76.79	-57.61	8.77	11.28	V
	7602	-38.33	-25	-13.33	-65.24	-39.20	10.83	11.70	V
	10140	-53.14	-25	-28.14	-81.37	-52.14	12.56	11.56	V
									V
									V
									V
									V



Highest	5100	-57.81	-25	-32.81	-79.55	-60.41	8.80	11.40	H
	7650	-48.85	-25	-23.85	-75.45	-49.59	10.86	11.60	H
	10200	-52.39	-25	-27.39	-81.02	-51.28	12.61	11.50	H
									H
									H
									H
									H
	5100	-55.84	-25	-30.84	-77.54	-58.44	8.80	11.40	V
	7650	-39.26	-25	-14.26	-66.12	-40.00	10.86	11.60	V
	10200	-53.47	-25	-28.47	-81.25	-52.36	12.61	11.50	V
									V
									V
									V
									V

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

**LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-56.12	-13.00	-43.12	-65.77	-57.43	4.14	7.60	H
	2096	-55.07	-13.00	-42.07	-67.07	-56.78	5.56	9.42	H
	2800	-64.23	-13.00	-51.23	-78.98	-66.31	6.47	10.70	H
									H
									H
									H
									H
	1400	-60.48	-13.00	-47.48	-69.98	-61.79	4.14	7.60	V
	2096	-54.59	-13.00	-41.59	-66.55	-56.30	5.56	9.42	V
	2800	-64.24	-13.00	-51.24	-78.77	-66.32	6.47	10.70	V
									V
									V
									V
									V
Middle	1408	-57.11	-13.00	-44.11	-66.77	-58.47	4.14	7.65	H
	2112	-52.32	-13.00	-39.32	-64.38	-54.01	5.58	9.42	H
	3512	-63.36	-13.00	-50.36	-78.19	-65.85	7.26	11.90	H
									H
									H
									H
									H
	1408	-59.50	-13.00	-46.50	-69.03	-60.86	4.14	7.65	V
	2112	-53.11	-13.00	-40.11	-65.11	-54.80	5.58	9.42	V
	3512	-63.69	-13.00	-50.69	-78.29	-66.18	7.26	11.90	V
									V
									V
									V
									V



Highest	1416	-60.77	-13.00	-47.77	-70.44	-62.17	4.15	7.70	H
	2120	-57.06	-13.00	-44.06	-69.16	-58.76	5.59	9.44	H
	2824	-63.26	-13.00	-50.26	-78.14	-65.31	6.50	10.70	H
									H
									H
									H
									H
	1416	-63.53	-13.00	-50.53	-73.09	-64.93	4.15	7.70	V
	2120	-58.72	-13.00	-45.72	-70.75	-60.42	5.59	9.44	V
	2824	-63.32	-13.00	-50.32	-77.97	-65.37	6.50	10.70	V
									V
									V
									V
									V

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

**LTE Band 13**

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-64.33	-13	-51.33	-74.16	-66.11	4.78	8.72	H
	2336	-56.88	-13	-43.88	-69.54	-59.34	5.89	10.50	H
	3114	-62.22	-13	-49.22	-78.60	-63.76	6.83	10.53	H
									H
									H
									H
									H
	1552	-66.02	-13.00	-53.02	-75.73	-67.80	4.78	8.72	V
	2336	-57.63	-13	-44.63	-70.28	-60.09	5.89	10.50	V
	3114	-63.05	-13	-50.05	-79.12	-64.59	6.83	10.53	V
									V
									V
									V
									V
Middle	1560	-63.42	-42.15	-21.27	-73.25	-65.25	4.80	8.78	H
	2336	-56.72	-13	-43.72	-69.38	-59.18	5.89	10.50	H
	3120	-62.52	-13	-49.52	-78.94	-64.07	6.84	10.54	H
									H
									H
									H
									H
	1560	-64.32	-42.15	-22.17	-74.02	-66.15	4.80	8.78	V
	2336	-55.91	-13	-42.91	-68.56	-58.37	5.89	10.50	V
	3120	-62.77	-13	-49.77	-78.88	-64.32	6.84	10.54	V
									V
									V
									V
									V



Highest	1562	-65.78	-42.15	-23.63	-75.62	-67.63	4.80	8.80	H
	2344	-58.53	-13	-45.53	-71.20	-60.98	5.90	10.50	H
	3128	-62.60	-13	-49.60	-79.05	-64.16	6.85	10.56	H
									H
									H
									H
									H
	1562	-65.88	-42.15	-23.73	-75.58	-67.73	4.80	8.80	V
	2344	-56.77	-13	-43.77	-69.45	-59.22	5.90	10.50	V
	3128	-62.99	-13	-49.99	-79.12	-64.55	6.85	10.56	V
									V
									V
									V
									V

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



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-63.74	-13	-50.74	-73.57	-65.52	4.78	8.72	H
	2336	-60.85	-13	-47.85	-73.51	-63.31	5.89	10.50	H
	3104	-62.03	-13	-49.03	-78.37	-63.57	6.82	10.51	H
									H
									H
									H
									H
	1552	-65.07	-13	-52.07	-74.79	-66.85	4.78	8.72	V
	2336	-60.88	-13	-47.88	-73.53	-63.34	5.89	10.50	V
	3104	-62.77	-13	-49.77	-78.79	-64.31	6.82	10.51	V
									V
									V
									V
									V

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

**LTE Band 25**

LTE Band 25 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5550	-48.15	-13	-35.15	-70.56	-51.46	9.19	12.50	H
	7404	-49.21	-13	-36.21	-75.6	-49.75	10.68	11.22	H
	14806	-50.37	-13	-37.37	-80.83	-48.99	15.31	13.93	H
									H
									H
									H
									H
	5550	-49.01	-13	-36.01	-71.37	-52.32	9.19	12.50	V
	7404	-43.65	-13	-30.65	-70.39	-44.19	10.68	11.22	V
	14806	-47.60	-13	-34.60	-78.21	-46.22	15.31	13.93	V
									V
									V
									V
									V
Middle	5628	-46.00	-13	-33.00	-68.65	-49.03	9.26	12.29	H
	7500	-46.80	-13	-33.80	-73.15	-47.55	10.75	11.50	H
	9378	-51.09	-13	-38.09	-79.49	-50.42	12.01	11.34	H
	15006	-49.73	-13	-36.73	-80.22	-48.66	15.39	14.32	H
									H
									H
									H
	5628	-47.57	-13	-34.57	-70.24	-50.60	9.26	12.29	V
	7500	-45.41	-13	-32.41	-71.96	-46.16	10.75	11.50	V
	9378	-48.22	-13	-35.22	-76.13	-47.55	12.01	11.34	V
	15006	-47.98	-13	-34.98	-78.32	-46.91	15.39	14.32	V
									V
									V
									V



Highest	3810	-59.99	-13	-46.99	-78.86	-63.92	7.63	11.56	H
	5718	-43.48	-13	-30.48	-66.48	-46.07	9.34	11.93	H
	7620	-45.96	-13	-32.96	-72.49	-46.78	10.84	11.66	H
									H
									H
									H
									H
	3810	-56.68	-13	-43.68	-75.29	-60.61	7.63	11.56	V
	5718	-42.15	-13	-29.15	-65.32	-44.74	9.34	11.93	V
	7620	-42.71	-13	-29.71	-69.52	-43.53	10.84	11.66	V
									V
									V
									V
									V

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

**LTE Band 26**

LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-64.42	-13	-51.42	-74.29	-66.83	4.92	9.48	H
	2472	-50.52	-13	-37.52	-63.42	-52.80	6.07	10.50	H
	3296	-62.07	-13	-49.07	-78.65	-63.98	7.03	11.09	H
									H
									H
									H
									H
	1648	-66.64	-13	-53.64	-76.27	-69.05	4.92	9.48	V
	2472	-51.98	-13	-38.98	-64.83	-54.26	6.07	10.50	V
	3296	-62.56	-13	-49.56	-78.89	-64.47	7.03	11.09	V
									V
									V
									V
									V
Middle	1664	-63.67	-13	-50.67	-73.54	-66.16	4.95	9.58	H
	2496	-51.33	-13	-38.33	-64.31	-53.58	6.10	10.50	H
	3328	-62.70	-13	-49.70	-79.22	-64.64	7.06	11.16	H
									H
									H
									H
									H
	1664	-65.21	-13	-52.21	-74.86	-67.70	4.95	9.58	V
	2496	-50.84	-13	-37.84	-63.73	-53.09	6.10	10.50	V
	3328	-62.84	-13	-49.84	-79.11	-64.78	7.06	11.16	V
									V
									V
									V
									V
									V



Highest	1649	-66.82	-13	-53.82	-76.68	-69.24	4.92	9.49	H
	2520	-51.85	-13	-38.85	-64.97	-54.07	6.13	10.50	H
	3358	-62.09	-13	-49.09	-78.57	-64.06	7.10	11.22	H
									H
									H
									H
									H
	1649	-67.05	-13	-54.05	-76.68	-69.47	4.92	9.49	V
	2520	-51.33	-13	-38.33	-64.34	-53.55	6.13	10.50	V
	3358	-62.40	-13	-49.40	-78.62	-64.37	7.10	11.22	V
									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 / 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	4992	-55.71	-25	-30.71	-77.32	-58.24	8.70	11.23	H
	7488	-43.32	-25	-18.32	-69.67	-44.05	10.74	11.48	H
	9984	-53.09	-25	-28.09	-81.62	-52.58	12.44	11.93	H
									H
									H
									H
									H
	4992	-54.55	-25	-29.55	-76.15	-57.08	8.70	11.23	V
	7488	-37.00	-25	-12.00	-63.57	-37.73	10.74	11.48	V
	9984	-53.94	-25	-28.94	-81.59	-53.43	12.44	11.93	V
									V
									V
									V
									V
Middle	5178	-55.84	-25	-30.84	-77.69	-58.79	8.86	11.81	H
	7764	-38.47	-25	-13.47	-65.31	-38.82	10.95	11.30	H
	10352	-52.75	-25	-27.75	-81.45	-51.77	12.73	11.75	H
									H
									H
									H
									H
	5178	-48.18	-25	-23.18	-69.96	-51.13	8.86	11.81	V
	7764	-34.99	-25	-9.99	-61.99	-35.34	10.95	11.30	V
	10352	-53.58	-25	-28.58	-81.49	-52.60	12.73	11.75	V
									V
									V
									V
									V



Highest	5364	-57.44	-25	-32.44	-79.54	-60.62	9.02	12.20	H
	8040	-42.67	-25	-17.67	-69.72	-42.82	11.15	11.30	H
	10720	-52.61	-25	-27.61	-81.67	-51.15	12.96	11.50	H
									H
									H
									H
									H
	5364	-55.53	-25	-30.53	-77.47	-58.71	9.02	12.20	V
	8040	-35.53	-25	-10.53	-62.69	-35.68	11.15	11.30	V
	10720	-53.04	-25	-28.04	-81.51	-51.58	12.96	11.50	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	5032	-57.98	-25	-32.98	-79.65	-60.44	8.74	11.20	H
	7548	-46.40	-25	-21.40	-72.82	-47.31	10.79	11.69	H
	10064	-53.29	-25	-28.29	-81.86	-52.14	12.50	11.35	H
									H
									H
									H
									H
	5032	-57.58	-25	-32.58	-79.22	-60.04	8.74	11.20	V
	7548	-41.37	-25	-16.37	-68.04	-42.28	10.79	11.69	V
	10064	-53.73	-25	-28.73	-81.4	-52.58	12.50	11.35	V
									V
									V
									V
									V
Middle	5184	-57.62	-25	-32.62	-79.47	-60.59	8.87	11.84	H
	7776	-51.67	-25	-26.67	-78.54	-52.02	10.95	11.30	H
	10368	-52.38	-25	-27.38	-81.09	-51.40	12.74	11.77	H
									H
									H
									H
									H
	5184	-54.24	-25	-29.24	-76.02	-57.21	8.87	11.84	V
	7776	-46.98	-25	-21.98	-74	-47.33	10.95	11.30	V
	10368	-53.57	-25	-28.57	-81.5	-52.59	12.74	11.77	V
									V
									V
									V
									V



Highest	5340	-58.82	-25	-33.82	-80.9	-61.98	9.00	12.16	H
	8010	-45.01	-25	-20.01	-72.08	-45.18	11.13	11.30	H
	10674	-52.59	-25	-27.59	-81.59	-51.23	12.94	11.58	H
									H
									H
									H
									H
	5340	-56.95	-25	-31.95	-78.87	-60.11	9.00	12.16	V
	8010	-40.12	-25	-15.12	-67.22	-40.29	11.13	11.30	V
	10674	-53.24	-25	-28.24	-81.62	-51.88	12.94	11.58	V
									V
									V
									V
									V

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

**LTE Band 66**

LTE Band 66 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-61.47	-13	-48.47	-78.74	-65.77	7.16	11.46	H
	5130	-56.28	-13	-43.28	-78.06	-59.04	8.82	11.58	H
	6840	-54.40	-13	-41.40	-79.66	-55.33	10.25	11.18	H
	8550	-47.36	-13	-34.36	-74.55	-46.97	11.49	11.10	H
	10263	-52.59	-13	-39.59	-81.24	-51.56	12.66	11.63	H
	11971	-50.90	-13	-37.90	-80.31	-50.06	13.74	12.90	H
									H
	3420	-61.59	-13	-48.59	-78.67	-65.89	7.16	11.46	V
	5130	-54.62	-13	-41.62	-76.35	-57.38	8.82	11.58	V
	6840	-50.42	-13	-37.42	-76.5	-51.35	10.25	11.18	V
	8550	-43.00	-13	-30.00	-70.21	-42.61	11.49	11.10	V
	10263	-53.14	-13	-40.14	-80.97	-52.11	12.66	11.63	V
	11971	-50.47	-13	-37.47	-79.37	-49.63	13.74	12.90	V
									V
Middle	3480	-61.67	-13	-48.67	-78.97	-66.26	7.23	11.82	H
	5220	-57.13	-13	-44.13	-79.03	-60.17	8.90	11.94	H
	6960	-54.96	-13	-41.96	-80.35	-56.09	10.35	11.48	H
	8706	-51.88	-13	-38.88	-79.25	-51.39	11.59	11.10	H
	10443	-52.75	-13	-39.75	-81.49	-51.75	12.80	11.80	H
	12184	-51.69	-13	-38.69	-81.13	-50.63	13.84	12.78	H
									H
	3480	-61.78	-13	-48.78	-79.05	-66.37	7.23	11.82	V
	5220	-54.32	-13	-41.32	-76.14	-57.36	8.90	11.94	V
	6960	-49.18	-13	-36.18	-75.33	-50.31	10.35	11.48	V
	8706	-47.07	-13	-34.07	-74.18	-46.58	11.59	11.10	V
	10443	-53.34	-13	-40.34	-81.32	-52.34	12.80	11.80	V
	12184	-51.29	-13	-38.29	-80.19	-50.23	13.84	12.78	V
									V



Highest	3541	-61.47	-13	-48.47	-78.98	-66.07	7.30	11.90	H
	5310	-55.07	-13	-42.07	-77.1	-58.13	8.98	12.04	H
	7080	-53.35	-13	-40.35	-79.18	-53.99	10.44	11.08	H
	8856	-52.29	-13	-39.29	-79.97	-51.71	11.69	11.11	H
									H
									H
									H
	3541	-61.04	-13	-48.04	-78.35	-65.64	7.30	11.90	V
	5310	-53.20	-13	-40.20	-75.1	-56.26	8.98	12.04	V
	7080	-47.64	-13	-34.64	-74.12	-48.28	10.44	11.08	V
	8856	-51.90	-13	-38.90	-79.03	-51.32	11.69	11.11	V
									V
									V
									V

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

**LTE Band 66B**

LTE Band 66B / 15MHz+5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3448	-61.30	-13	-48.30	-78.59	-65.79	7.19	11.68	H
	5172	-56.03	-13	-43.03	-77.87	-58.96	8.86	11.79	H
	6896	-56.74	-13	-43.74	-82.06	-57.83	10.30	11.38	H
	8622	-53.46	-13	-40.46	-80.63	-53.08	11.54	11.16	H
									H
									H
									H
	3448	-61.77	-13	-48.77	-78.93	-66.26	7.19	11.68	V
	5172	-53.14	-13	-40.14	-74.92	-56.07	8.86	11.79	V
	6896	-53.02	-13	-40.02	-79.13	-54.11	10.30	11.38	V
	8622	-49.94	-13	-36.94	-77.14	-49.56	11.54	11.16	V
									V
									V
									V
Middle	3518	-61.63	-13	-48.63	-79.04	-66.26	7.27	11.90	H
	5280	-56.01	-13	-43.01	-77.99	-59.06	8.95	12.00	H
	7037	-56.11	-13	-43.11	-81.73	-56.95	10.41	11.25	H
	8796	-53.32	-13	-40.32	-80.9	-52.77	11.65	11.10	H
									H
									H
									H
	3518	-62.00	-13	-49.00	-79.33	-66.63	7.27	11.90	V
	5280	-54.93	-13	-41.93	-76.8	-57.98	8.95	12.00	V
	7037	-52.11	-13	-39.11	-78.44	-52.95	10.41	11.25	V
	8796	-51.89	-13	-38.89	-78.89	-51.34	11.65	11.10	V
									V
									V
									V



Highest	3548	-61.47	-13	-48.47	-79.01	-66.06	7.31	11.90	H
	5322	-54.51	-13	-41.51	-76.55	-57.61	8.99	12.09	H
	7097	-54.95	-13	-41.95	-80.86	-55.51	10.45	11.01	H
	8868	-53.75	-13	-40.75	-81.43	-53.19	11.70	11.14	H
									H
									H
									H
	3548	-61.44	-13	-48.44	-78.74	-66.03	7.31	11.90	V
	5322	-49.51	-13	-36.51	-71.41	-52.61	8.99	12.09	V
	7097	-49.08	-13	-36.08	-75.63	-49.64	10.45	11.01	V
	8868	-52.39	-13	-39.39	-79.59	-51.83	11.70	11.14	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	3456	-61.12	-13	-48.12	-78.41	-65.64	7.20	11.72	H
	5184	-55.58	-13	-42.58	-77.43	-58.55	8.87	11.84	H
	6915	-56.52	-13	-43.52	-81.87	-57.64	10.31	11.43	H
	8644	-54.07	-13	-41.07	-81.29	-53.63	11.55	11.11	H
									H
									H
									H
	3456	-61.54	-13	-48.54	-78.74	-66.06	7.20	11.72	V
	5184	-55.21	-13	-42.21	-77	-58.18	8.87	11.84	V
	6915	-52.35	-13	-39.35	-78.48	-53.47	10.31	11.43	V
	8644	-50.97	-13	-37.97	-78.15	-50.53	11.55	11.11	V
									V
									V
									V
Middle	3508	-61.45	-13	-48.45	-78.81	-66.09	7.26	11.90	H
	5262	-54.43	-13	-41.43	-76.4	-57.49	8.94	12.00	H
	7016	-56.33	-13	-43.33	-81.85	-57.27	10.39	11.34	H
	8770	-53.47	-13	-40.47	-80.98	-52.94	11.63	11.10	H
									H
									H
									H
	3508	-61.12	-13	-48.12	-78.44	-65.76	7.26	11.90	V
	5262	-51.96	-13	-38.96	-73.81	-55.02	8.94	12.00	V
	7016	-53.21	-13	-40.21	-79.46	-54.15	10.39	11.34	V
	8770	-53.33	-13	-40.33	-80.36	-52.80	11.63	11.10	V
									V
									V
									V



Highest	3516	-61.34	-13	-48.34	-78.73	-65.97	7.27	11.90	H
	5280	-55.53	-13	-42.53	-77.51	-58.58	8.95	12.00	H
	7036	-56.24	-13	-43.24	-81.86	-57.09	10.41	11.26	H
	8795	-54.00	-13	-41.00	-81.57	-53.45	11.65	11.10	H
									H
									H
									H
	3516	-61.26	-13	-48.26	-78.59	-65.89	7.27	11.90	V
	5280	-53.20	-13	-40.20	-75.07	-56.25	8.95	12.00	V
	7036	-53.16	-13	-40.16	-79.49	-54.01	10.41	11.26	V
	8795	-52.80	-13	-39.80	-79.8	-52.25	11.65	11.10	V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-55.47	-13	-42.47	-65.13	-58.46	4.08	7.07	H
	1992	-37.08	-13	-24.08	-48.55	-41.59	5.42	9.93	H
	2654	-63.87	-13	-50.87	-77.82	-67.98	6.29	10.40	H
	3320	-59.85	-13	-46.85	-76.38	-63.93	7.06	11.14	H
									H
									H
									H
	1328	-56.11	-13	-43.11	-65.48	-59.10	4.08	7.07	V
	1992	-38.03	-13	-25.03	-49.56	-42.54	5.42	9.93	V
	2654	-64.30	-13	-51.30	-78.05	-68.41	6.29	10.40	V
	3320	-60.01	-13	-47.01	-76.29	-64.09	7.06	11.14	V
									V
									V
									V
Middle	1352	-55.78	-13	-42.78	-65.42	-58.90	4.10	7.22	H
	2032	-37.19	-13	-24.19	-48.86	-41.42	5.47	9.71	H
	2704	-63.96	-13	-50.96	-78.16	-68.03	6.35	10.42	H
									H
									H
									H
									H
	1352	-57.77	-13	-44.77	-67.17	-60.89	4.10	7.22	V
	2032	-39.23	-13	-26.23	-50.94	-43.46	5.47	9.71	V
	2704	-63.69	-13	-50.69	-77.69	-67.76	6.35	10.42	V
									V
									V
									V
									V



Highest	1376	-49.92	-13	-36.92	-59.56	-53.21	4.12	7.41	H
	2064	-38.11	-13	-25.11	-49.92	-42.14	5.52	9.54	H
	2752	-63.23	-13	-50.23	-77.69	-67.52	6.41	10.70	H
									H
									H
									H
									H
	1376	-54.28	-13	-41.28	-63.72	-57.57	4.12	7.41	V
	2064	-40.10	-13	-27.10	-51.9	-44.13	5.52	9.54	V
	2752	-63.36	-13	-50.36	-77.6	-67.65	6.41	10.70	V
									V
									V
									V
									V

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