



FCC RF Test Report

APPLICANT : Fibocom Wireless Inc
EQUIPMENT : LTE module
BRAND NAME : Fibocom
MODEL NAME : NL668-AM-00
FCC ID : ZMONL668AM00
STANDARD : 47 CFR Part 22(H), 24(E), 27(F), 27(H), 27(L), 27(N)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Jan. 10, 2025 ~ Jan. 14, 2025

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D2309B	Rev. 01	Initial issue of report	Jan. 21, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt		-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
4.4	§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 66)(Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 19.56 dB at 1559.500 MHz

Note: This is a variant report. The change note could be referred to the Product Equality Declaration which is exhibit separately. According to the differences, only the related test cases of power/ERP/EIRP and RSE from original test report (Sporton Report Number FG8O1914B) were verified for the differences.

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/manufacturer 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.	



1 General Description

1.1 Applicant

Fibocom Wireless Inc

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.2 Manufacturer

Fibocom Wireless Inc

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE module
Brand Name	Fibocom
Model Name	NL668-AM-00
FCC ID	ZMONL668AM00
IMEI Code	Conducted/Radiation: 868862040630356
HW Version	V1.0.1
SW Version	19011.1000.00.02.79.08
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Antenna Gain (dBi)					
Frequency Band	Ant.1	Ant.2	Ant.3	Ant.4	Ant.5
LTE Band 2	6.2	5.9	5.1	2.55	1.45
LTE Band 4	4.7	5.1	3.7	2.78	1.45
LTE Band 5	1.3	4.1	3.5	2.02	0.36
LTE Band 12	4.4	5.6	3.7	2.20	0.42
LTE Band 13	2.6	5.2	5.4	2.20	0.42
LTE Band 17	4.4	5.6	3.7	2.20	0.42
LTE Band 66	4.7	5.1	3.9	2.78	1.45
LTE Band 71	3.7	4.3	2.1	2.66	0.42
Antenna Type	PCB	PCB	PCB	FPC	FPC

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 66 : 2110 MHz~ 2180 MHz LTE Band 71: 617 MHz ~ 652 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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.14 dBm LTE Band 4 : 23.01 dBm LTE Band 5 : 22.72 dBm LTE Band 12 : 23.15 dBm LTE Band 13 : 22.80 dBm LTE Band 17 : 22.75 dBm LTE Band 66 : 23.35 dBm LTE Band 71 : 23.34 dBm
Type of Modulation	QPSK / 16QAM

Note : The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Ant.1 for LTE Band 2, Ant.3 for LTE Band 13 and Ant.2 for LTE Band 4/5/12/17/66/71 are shown in the report.

1.5 Modification of EUT

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



1.6 Maximum Conducted Power

LTE Band 2		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
1.4	1850.7 ~ 1909.3	0.2051	0.1690
3	1851.5 ~ 1908.5	0.1968	0.1535
5	1852.5 ~ 1907.5	0.2046	0.1549
10	1855.0 ~ 1905.0	0.1986	0.1589
15	1857.5 ~ 1902.5	0.2051	0.1618
20	1860.0 ~ 1900.0	0.2061	0.1563
LTE Band 4		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
1.4	1710.7 ~ 1754.3	0.1986	0.1592
3	1711.5 ~ 1753.5	0.1897	0.1603
5	1712.5 ~ 1752.5	0.1884	0.1629
10	1715.0 ~ 1750.0	0.1968	0.1607
15	1717.5 ~ 1747.5	0.1972	0.1574
20	1720.0 ~ 1745.0	0.2000	0.1563
LTE Band 5		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
1.4	824.7 ~ 848.3	0.1858	0.1614
3	825.5 ~ 847.5	0.1820	0.1390
5	826.5 ~ 846.5	0.1799	0.1452
10	829.0 ~ 844.0	0.1871	0.1452
LTE Band 12		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
1.4	699.7 ~ 715.3	0.2042	0.1690
3	700.5 ~ 714.5	0.2046	0.1524
5	701.5 ~ 713.5	0.1986	0.1496
10	704.0 ~ 711.0	0.2065	0.1574



LTE Band 13		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
5	779.5 ~ 784.5	0.1858	0.1466
10	782.0	0.1905	0.1479
LTE Band 17		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
5	706.5 ~ 713.5	0.1837	0.1413
10	709.0 ~ 711.0	0.1884	0.1510
LTE Band 66		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
1.4	1710.7 ~ 1779.3	0.2080	0.1648
3	1711.5 ~ 1778.5	0.2094	0.1560
5	1712.5 ~ 1777.5	0.2056	0.1570
10	1715.0 ~ 1775.0	0.2051	0.1560
15	1717.5 ~ 1772.5	0.2113	0.1592
20	1720.0 ~ 1770.0	0.2163	0.1578
LTE Band 71		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
5	665.5 ~ 695.5	0.2065	0.1552
10	668.0 ~ 693.0	0.2133	0.1552
15	670.5 ~ 690.5	0.2123	0.1552
20	673.0 ~ 688.0	0.2158	0.1603

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- ♦ 47 CFR Part 22(H), 24(E), 27(F), 27(H), 27(L), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

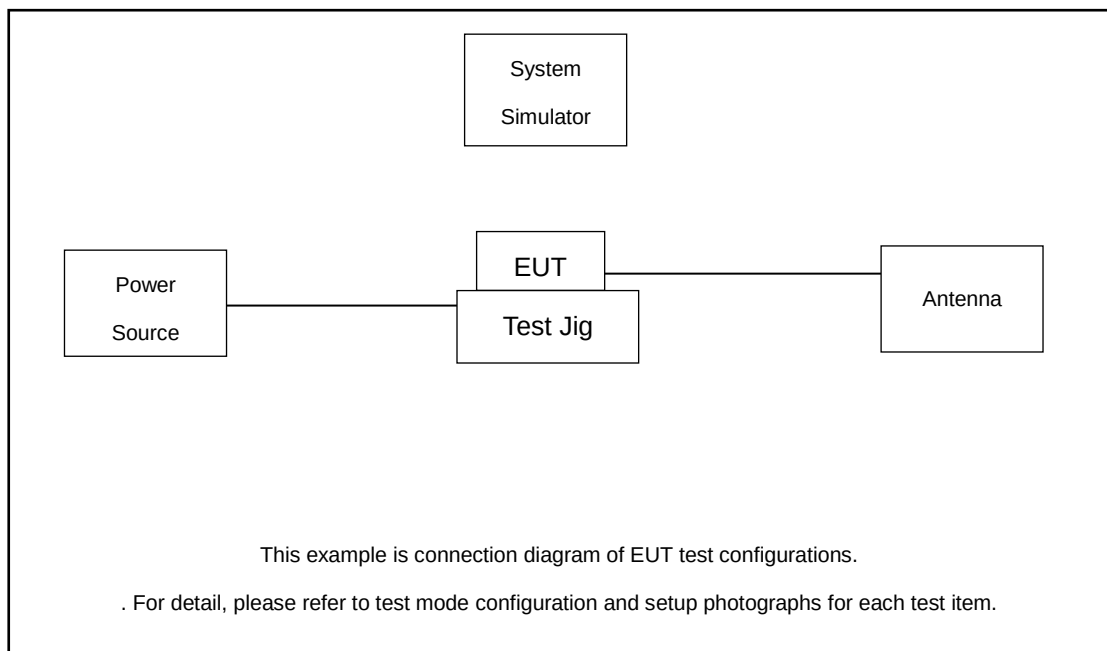
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	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
	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	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
	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
	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

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	Worst Case												v	
	5	Worst Case												v	
	12	Worst Case												v	
	13	Worst Case												v	
	66	Worst Case												v	
	71	Worst Case												v	
Note	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. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4. 5. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.														

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Test Jig	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	Antenna	N/A	N/A	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 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 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	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

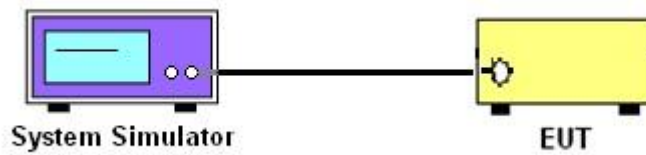
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 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, Band 13 and Band 17 and Band 71.

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

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

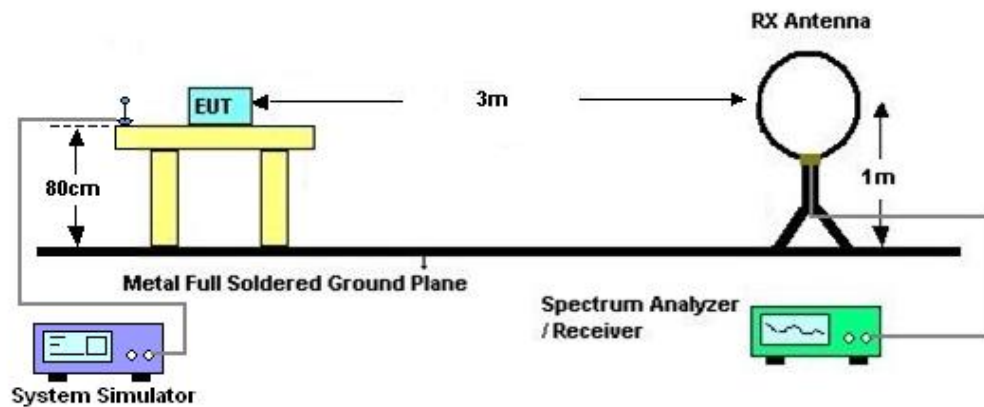
4 Radiated Test Items

4.1 Measuring Instruments

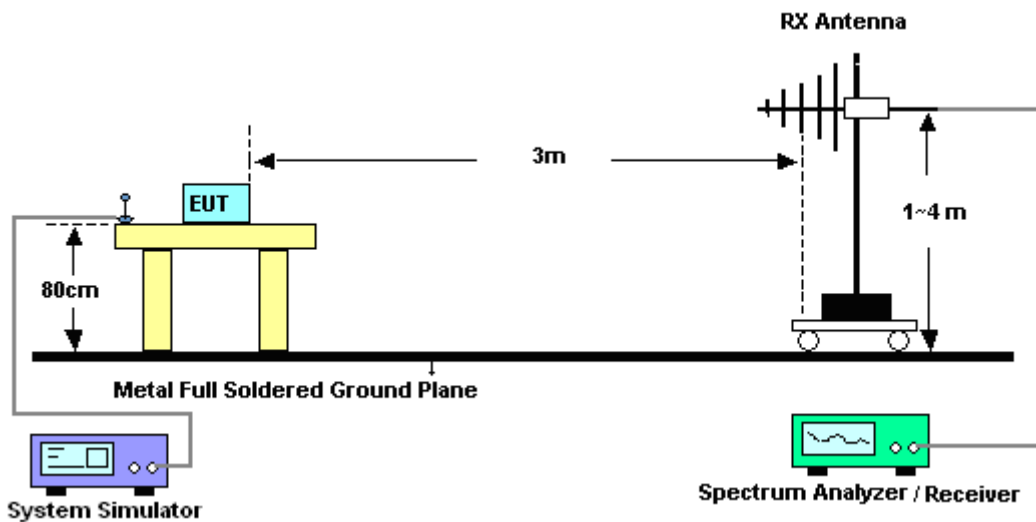
See list of measuring instruments of this test report.

4.2 Test Setup

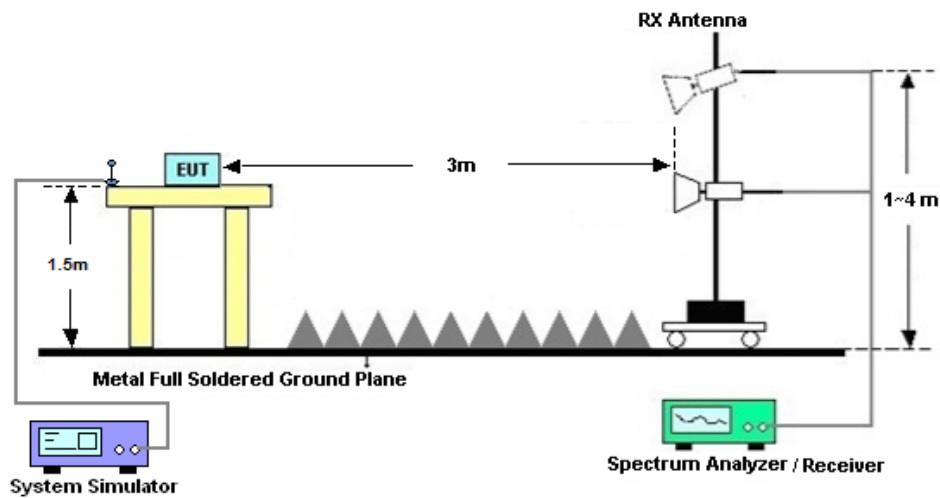
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. 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)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jan. 14, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V, 3A	Oct. 15, 2024	Jan. 14, 2025	Oct. 14, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Jan. 14, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Jan. 14, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Jan. 10, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Jan. 10, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jan. 10, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jan. 10, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Jan. 10, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Jan. 10, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Jan. 10, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Jan. 10, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 10, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 10, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 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))	3.31 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))	3.72 dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Nina Cheng	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2_Ant1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	22.79	22.74	22.81	0.7925	0.7834	0.7962
20	QPSK	1	49	22.88	23.08	23.14	0.8091	0.8472	0.8590
20	QPSK	1	99	22.53	22.60	22.57	0.7464	0.7586	0.7534
20	QPSK	50	0	21.98	21.85	21.92	0.6577	0.6383	0.6486
20	QPSK	50	24	21.90	21.84	21.63	0.6457	0.6368	0.6067
20	QPSK	50	50	21.78	21.72	21.74	0.6281	0.6194	0.6223
20	QPSK	100	0	21.80	21.84	21.80	0.6310	0.6368	0.6310
20	16QAM	1	0	21.94	21.51	21.57	0.6516	0.5902	0.5984
20	16QAM	1	49	21.80	21.82	21.76	0.6310	0.6339	0.6252
20	16QAM	1	99	21.54	21.55	21.79	0.5943	0.5957	0.6295
20	16QAM	50	0	21.03	20.96	20.80	0.5284	0.5200	0.5012
20	16QAM	50	24	20.94	20.92	20.73	0.5176	0.5152	0.4932
20	16QAM	50	50	20.77	20.88	20.79	0.4977	0.5105	0.5000
20	16QAM	100	0	20.90	20.94	20.85	0.5129	0.5176	0.5070
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.86	22.85	22.80	0.8054	0.8035	0.7943
15	QPSK	1	37	23.11	23.12	23.04	0.8531	0.8551	0.8395
15	QPSK	1	74	22.85	22.85	22.96	0.8035	0.8035	0.8241
15	QPSK	36	0	21.98	21.98	21.77	0.6577	0.6577	0.6266
15	QPSK	36	20	21.83	22.03	21.78	0.6353	0.6653	0.6281
15	QPSK	36	39	21.94	21.96	21.80	0.6516	0.6546	0.6310
15	QPSK	75	0	21.89	22.06	21.80	0.6442	0.6699	0.6310
15	16QAM	1	0	22.08	21.86	21.66	0.6730	0.6397	0.6109
15	16QAM	1	37	22.09	21.80	21.84	0.6745	0.6310	0.6368
15	16QAM	1	74	21.61	21.63	21.67	0.6039	0.6067	0.6124
15	16QAM	36	0	21.06	20.96	20.76	0.5321	0.5200	0.4966
15	16QAM	36	20	20.80	20.89	20.78	0.5012	0.5117	0.4989
15	16QAM	36	39	20.94	20.88	20.80	0.5176	0.5105	0.5012
15	16QAM	75	0	20.96	20.96	20.78	0.5200	0.5200	0.4989
Channel				18650	18900	19150	EIRP(W)		



Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.85	22.65	22.52	0.8035	0.7674	0.7447
10	QPSK	1	25	22.98	22.93	22.65	0.8279	0.8185	0.7674
10	QPSK	1	49	22.67	22.57	22.62	0.7709	0.7534	0.7621
10	QPSK	25	0	22.05	22.03	21.80	0.6683	0.6653	0.6310
10	QPSK	25	12	21.99	22.01	21.92	0.6592	0.6622	0.6486
10	QPSK	25	25	21.83	21.84	21.75	0.6353	0.6368	0.6237
10	QPSK	50	0	21.89	21.94	21.71	0.6442	0.6516	0.6180
10	16QAM	1	0	21.64	22.01	21.81	0.6081	0.6622	0.6324
10	16QAM	1	25	21.81	21.93	21.90	0.6324	0.6501	0.6457
10	16QAM	1	49	21.58	21.59	21.62	0.5998	0.6012	0.6053
10	16QAM	25	0	20.95	20.98	20.81	0.5188	0.5224	0.5023
10	16QAM	25	12	20.96	20.97	20.92	0.5200	0.5212	0.5152
10	16QAM	25	25	21.03	20.92	20.98	0.5284	0.5152	0.5224
10	16QAM	50	0	20.97	20.85	20.80	0.5212	0.5070	0.5012
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.85	22.82	22.65	0.8035	0.7980	0.7674
5	QPSK	1	12	23.11	22.77	22.79	0.8531	0.7889	0.7925
5	QPSK	1	24	22.66	22.88	22.63	0.7691	0.8091	0.7638
5	QPSK	12	0	22.05	21.87	21.78	0.6683	0.6412	0.6281
5	QPSK	12	7	22.01	21.89	21.70	0.6622	0.6442	0.6166
5	QPSK	12	13	21.91	21.82	21.79	0.6471	0.6339	0.6295
5	QPSK	25	0	22.00	21.86	21.74	0.6607	0.6397	0.6223
5	16QAM	1	0	21.90	21.79	21.66	0.6457	0.6295	0.6109
5	16QAM	1	12	21.80	21.77	21.53	0.6310	0.6266	0.5929
5	16QAM	1	24	21.75	21.61	21.58	0.6237	0.6039	0.5998
5	16QAM	12	0	20.93	20.84	20.78	0.5164	0.5058	0.4989
5	16QAM	12	7	20.94	20.90	20.93	0.5176	0.5129	0.5164
5	16QAM	12	13	20.84	20.92	20.89	0.5058	0.5152	0.5117
5	16QAM	25	0	21.14	21.13	20.87	0.5420	0.5408	0.5093
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.87	22.94	22.83	0.8072	0.8204	0.7998
3	QPSK	1	8	22.88	22.92	22.73	0.8091	0.8166	0.7816
3	QPSK	1	14	22.85	22.78	22.73	0.8035	0.7907	0.7816
3	QPSK	8	0	21.87	21.93	21.70	0.6412	0.6501	0.6166
3	QPSK	8	4	21.95	22.00	21.86	0.6531	0.6607	0.6397
3	QPSK	8	7	21.86	21.92	21.81	0.6397	0.6486	0.6324
3	QPSK	15	0	21.98	21.96	21.80	0.6577	0.6546	0.6310
3	16QAM	1	0	21.70	21.72	21.54	0.6166	0.6194	0.5943
3	16QAM	1	8	21.81	21.84	21.74	0.6324	0.6368	0.6223
3	16QAM	1	14	21.86	21.72	21.58	0.6397	0.6194	0.5998
3	16QAM	8	0	20.96	20.95	20.99	0.5200	0.5188	0.5236
3	16QAM	8	4	20.97	21.01	20.86	0.5212	0.5260	0.5082



3	16QAM	8	7	20.99	21.19	20.91	0.5236	0.5483	0.5140
3	16QAM	15	0	20.84	20.98	20.94	0.5058	0.5224	0.5176
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.91	22.78	22.64	0.8147	0.7907	0.7656
1.4	QPSK	1	3	22.98	22.95	22.79	0.8279	0.8222	0.7925
1.4	QPSK	1	5	22.90	22.84	22.63	0.8128	0.8017	0.7638
1.4	QPSK	3	0	23.12	22.91	22.93	0.8551	0.8147	0.8185
1.4	QPSK	3	1	23.03	23.00	22.90	0.8375	0.8318	0.8128
1.4	QPSK	3	3	23.02	23.03	22.80	0.8356	0.8375	0.7943
1.4	QPSK	6	0	21.96	21.93	21.85	0.6546	0.6501	0.6383
1.4	16QAM	1	0	21.87	21.76	21.56	0.6412	0.6252	0.5970
1.4	16QAM	1	3	22.07	22.02	22.08	0.6714	0.6637	0.6730
1.4	16QAM	1	5	21.93	21.83	21.64	0.6501	0.6353	0.6081
1.4	16QAM	3	0	22.18	21.92	21.62	0.6887	0.6486	0.6053
1.4	16QAM	3	1	22.28	22.12	22.02	0.7047	0.6792	0.6637
1.4	16QAM	3	3	22.26	21.89	22.06	0.7015	0.6442	0.6699
1.4	16QAM	6	0	20.89	20.85	20.72	0.5117	0.5070	0.4920



LTE Band 4_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	22.66	22.76	22.96	0.5970	0.6109	0.6397
20	QPSK	1	49	22.96	22.86	23.01	0.6397	0.6252	0.6471
20	QPSK	1	99	22.61	22.58	22.66	0.5902	0.5861	0.5970
20	QPSK	50	0	21.59	21.74	21.97	0.4667	0.4831	0.5093
20	QPSK	50	24	21.63	21.78	21.71	0.4710	0.4875	0.4797
20	QPSK	50	50	21.69	21.70	21.74	0.4775	0.4786	0.4831
20	QPSK	100	0	21.61	21.74	21.81	0.4688	0.4831	0.4909
20	16QAM	1	0	21.58	21.61	21.85	0.4656	0.4688	0.4955
20	16QAM	1	49	21.94	21.77	21.75	0.5058	0.4864	0.4842
20	16QAM	1	99	21.54	21.52	21.67	0.4613	0.4592	0.4753
20	16QAM	50	0	20.67	20.67	21.05	0.3776	0.3776	0.4121
20	16QAM	50	24	20.80	20.83	20.88	0.3890	0.3917	0.3963
20	16QAM	50	50	20.60	20.70	20.82	0.3715	0.3802	0.3908
20	16QAM	100	0	20.78	20.64	20.89	0.3873	0.3750	0.3972
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	22.56	22.72	22.61	0.5834	0.6053	0.5902
15	QPSK	1	37	22.92	22.62	22.95	0.6339	0.5916	0.6383
15	QPSK	1	74	22.54	22.57	22.82	0.5808	0.5848	0.6194
15	QPSK	36	0	21.60	21.69	21.72	0.4677	0.4775	0.4808
15	QPSK	36	20	21.69	21.71	21.77	0.4775	0.4797	0.4864
15	QPSK	36	39	21.66	21.61	21.69	0.4742	0.4688	0.4775
15	QPSK	75	0	21.58	21.64	21.67	0.4656	0.4721	0.4753
15	16QAM	1	0	21.72	21.70	21.61	0.4808	0.4786	0.4688
15	16QAM	1	37	21.56	21.63	21.78	0.4634	0.4710	0.4875
15	16QAM	1	74	21.54	21.55	21.97	0.4613	0.4624	0.5093
15	16QAM	36	0	20.57	20.78	20.65	0.3690	0.3873	0.3758
15	16QAM	36	20	20.67	20.84	20.72	0.3776	0.3926	0.3819
15	16QAM	36	39	20.67	20.64	20.71	0.3776	0.3750	0.3811
15	16QAM	75	0	20.66	20.77	20.80	0.3767	0.3864	0.3890
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	22.52	22.56	22.68	0.5781	0.5834	0.5998
10	QPSK	1	25	22.64	22.56	22.94	0.5943	0.5834	0.6368
10	QPSK	1	49	22.55	22.54	22.71	0.5821	0.5808	0.6039
10	QPSK	25	0	21.63	21.73	21.63	0.4710	0.4819	0.4710
10	QPSK	25	12	21.62	21.71	21.76	0.4699	0.4797	0.4853
10	QPSK	25	25	21.63	21.67	21.78	0.4710	0.4753	0.4875
10	QPSK	50	0	21.63	21.69	21.79	0.4710	0.4775	0.4887
10	16QAM	1	0	21.62	21.86	21.53	0.4699	0.4966	0.4603



10	16QAM	1	25	22.06	21.60	21.80	0.5200	0.4677	0.4898
10	16QAM	1	49	21.89	21.66	21.81	0.5000	0.4742	0.4909
10	16QAM	25	0	20.78	20.76	20.74	0.3873	0.3855	0.3837
10	16QAM	25	12	20.74	20.75	20.88	0.3837	0.3846	0.3963
10	16QAM	25	25	20.59	20.66	20.89	0.3707	0.3767	0.3972
10	16QAM	50	0	20.64	20.83	20.82	0.3750	0.3917	0.3908
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	22.61	22.70	22.58	0.5902	0.6026	0.5861
5	QPSK	1	12	22.58	22.75	22.74	0.5861	0.6095	0.6081
5	QPSK	1	24	22.52	22.50	22.64	0.5781	0.5754	0.5943
5	QPSK	12	0	21.52	21.83	21.67	0.4592	0.4932	0.4753
5	QPSK	12	7	21.50	21.74	21.81	0.4571	0.4831	0.4909
5	QPSK	12	13	21.56	21.60	21.84	0.4634	0.4677	0.4943
5	QPSK	25	0	21.62	21.71	21.75	0.4699	0.4797	0.4842
5	16QAM	1	0	21.56	21.61	21.95	0.4634	0.4688	0.5070
5	16QAM	1	12	21.56	21.59	21.57	0.4634	0.4667	0.4645
5	16QAM	1	24	21.52	21.58	22.12	0.4592	0.4656	0.5272
5	16QAM	12	0	20.74	20.87	20.75	0.3837	0.3954	0.3846
5	16QAM	12	7	20.59	20.87	20.84	0.3707	0.3954	0.3926
5	16QAM	12	13	20.57	20.71	20.86	0.3690	0.3811	0.3945
5	16QAM	25	0	20.77	20.93	20.85	0.3864	0.4009	0.3936
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	22.61	22.61	22.61	0.5902	0.5902	0.5902
3	QPSK	1	8	22.50	22.54	22.78	0.5754	0.5808	0.6138
3	QPSK	1	14	22.53	22.51	22.76	0.5794	0.5768	0.6109
3	QPSK	8	0	21.72	21.87	21.63	0.4808	0.4977	0.4710
3	QPSK	8	4	21.81	21.88	21.70	0.4909	0.4989	0.4786
3	QPSK	8	7	21.64	21.70	21.84	0.4721	0.4786	0.4943
3	QPSK	15	0	21.73	21.74	21.65	0.4819	0.4831	0.4732
3	16QAM	1	0	21.52	21.80	21.87	0.4592	0.4898	0.4977
3	16QAM	1	8	21.59	21.77	22.05	0.4667	0.4864	0.5188
3	16QAM	1	14	21.55	21.71	22.04	0.4624	0.4797	0.5176
3	16QAM	8	0	20.65	21.01	20.62	0.3758	0.4083	0.3733
3	16QAM	8	4	20.81	20.68	20.73	0.3899	0.3784	0.3828
3	16QAM	8	7	20.81	20.65	20.94	0.3899	0.3758	0.4018
3	16QAM	15	0	20.52	20.82	20.66	0.3648	0.3908	0.3767
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	22.57	22.80	22.60	0.5848	0.6166	0.5888
1.4	QPSK	1	3	22.71	22.72	22.73	0.6039	0.6053	0.6067
1.4	QPSK	1	5	22.60	22.51	22.60	0.5888	0.5768	0.5888
1.4	QPSK	3	0	22.67	22.76	22.88	0.5984	0.6109	0.6281
1.4	QPSK	3	1	22.84	22.81	22.86	0.6223	0.6180	0.6252



1.4	QPSK	3	3	22.82	22.83	22.98	0.6194	0.6209	0.6427
1.4	QPSK	6	0	21.73	21.80	21.75	0.4819	0.4898	0.4842
1.4	16QAM	1	0	21.69	21.58	21.96	0.4775	0.4656	0.5082
1.4	16QAM	1	3	21.80	21.69	21.96	0.4898	0.4775	0.5082
1.4	16QAM	1	5	21.65	21.71	21.56	0.4732	0.4797	0.4634
1.4	16QAM	3	0	21.69	21.53	21.58	0.4775	0.4603	0.4656
1.4	16QAM	3	1	21.90	22.02	21.91	0.5012	0.5152	0.5023
1.4	16QAM	3	3	21.84	21.78	21.72	0.4943	0.4875	0.4808
1.4	16QAM	6	0	20.77	20.71	20.58	0.3864	0.3811	0.3698



LTE Band 5_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	22.45	22.70	22.59	0.2754	0.2917	0.2844
10	QPSK	1	25	22.61	22.72	22.67	0.2858	0.2931	0.2897
10	QPSK	1	49	22.43	22.32	22.51	0.2742	0.2673	0.2793
10	QPSK	25	0	21.77	21.69	21.62	0.2355	0.2312	0.2275
10	QPSK	25	12	21.78	21.67	21.65	0.2360	0.2301	0.2291
10	QPSK	25	25	21.64	21.58	21.61	0.2286	0.2254	0.2270
10	QPSK	50	0	21.76	21.61	21.68	0.2350	0.2270	0.2307
10	16QAM	1	0	21.43	21.31	21.35	0.2178	0.2118	0.2138
10	16QAM	1	25	21.50	21.62	21.53	0.2213	0.2275	0.2228
10	16QAM	1	49	21.29	21.22	21.32	0.2109	0.2075	0.2123
10	16QAM	25	0	20.69	20.85	20.57	0.1837	0.1905	0.1786
10	16QAM	25	12	20.80	20.85	20.61	0.1884	0.1905	0.1803
10	16QAM	25	25	20.78	20.73	20.65	0.1875	0.1854	0.1820
10	16QAM	50	0	20.79	20.65	20.53	0.1879	0.1820	0.1770
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.29	22.06	22.32	0.2655	0.2518	0.2673
5	QPSK	1	12	22.49	22.36	22.55	0.2780	0.2698	0.2818
5	QPSK	1	24	22.21	22.20	22.15	0.2606	0.2600	0.2570
5	QPSK	12	0	21.34	21.36	21.33	0.2133	0.2143	0.2128
5	QPSK	12	7	21.52	21.41	21.40	0.2223	0.2168	0.2163
5	QPSK	12	13	21.44	21.36	21.49	0.2183	0.2143	0.2208
5	QPSK	25	0	21.50	21.36	21.43	0.2213	0.2143	0.2178
5	16QAM	1	0	21.10	21.62	21.03	0.2018	0.2275	0.1986
5	16QAM	1	12	21.20	21.22	21.14	0.2065	0.2075	0.2037
5	16QAM	1	24	21.08	21.14	21.25	0.2009	0.2037	0.2089
5	16QAM	12	0	20.29	20.24	20.18	0.1675	0.1656	0.1633
5	16QAM	12	7	20.30	20.29	20.29	0.1679	0.1675	0.1675
5	16QAM	12	13	20.29	20.21	20.42	0.1675	0.1644	0.1726
5	16QAM	25	0	20.44	20.23	20.49	0.1734	0.1652	0.1754
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	22.59	22.33	22.56	0.2844	0.2679	0.2825
3	QPSK	1	8	22.19	22.08	22.37	0.2594	0.2529	0.2704
3	QPSK	1	14	22.25	22.60	22.58	0.2630	0.2851	0.2838
3	QPSK	8	0	21.49	21.47	21.37	0.2208	0.2198	0.2148
3	QPSK	8	4	21.46	21.44	21.46	0.2193	0.2183	0.2193
3	QPSK	8	7	21.53	21.49	21.50	0.2228	0.2208	0.2213
3	QPSK	15	0	21.50	21.57	21.54	0.2213	0.2249	0.2234
3	16QAM	1	0	21.22	21.37	21.18	0.2075	0.2148	0.2056



3	16QAM	1	8	21.06	21.30	21.14	0.2000	0.2113	0.2037
3	16QAM	1	14	21.31	21.43	21.24	0.2118	0.2178	0.2084
3	16QAM	8	0	20.40	20.58	20.28	0.1718	0.1791	0.1671
3	16QAM	8	4	20.52	20.55	20.71	0.1766	0.1778	0.1845
3	16QAM	8	7	20.65	20.57	20.55	0.1820	0.1786	0.1778
3	16QAM	15	0	20.58	20.53	20.51	0.1791	0.1770	0.1762
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	22.62	22.50	22.42	0.2864	0.2786	0.2735
1.4	QPSK	1	3	22.64	22.67	22.58	0.2877	0.2897	0.2838
1.4	QPSK	1	5	22.68	22.50	22.42	0.2904	0.2786	0.2735
1.4	QPSK	3	0	22.65	22.61	22.53	0.2884	0.2858	0.2805
1.4	QPSK	3	1	22.61	22.59	22.68	0.2858	0.2844	0.2904
1.4	QPSK	3	3	22.69	22.63	22.64	0.2911	0.2871	0.2877
1.4	QPSK	6	0	21.71	21.65	21.61	0.2323	0.2291	0.2270
1.4	16QAM	1	0	21.54	21.38	21.37	0.2234	0.2153	0.2148
1.4	16QAM	1	3	21.68	21.59	21.50	0.2307	0.2259	0.2213
1.4	16QAM	1	5	21.45	21.29	21.43	0.2188	0.2109	0.2178
1.4	16QAM	3	0	22.02	21.91	21.57	0.2495	0.2432	0.2249
1.4	16QAM	3	1	21.95	21.80	21.52	0.2455	0.2371	0.2223
1.4	16QAM	3	3	22.08	21.86	21.52	0.2529	0.2404	0.2223
1.4	16QAM	6	0	20.78	20.60	20.61	0.1875	0.1799	0.1803



LTE Band 12_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	22.72	22.79	22.73	0.4140	0.4207	0.4150
10	QPSK	1	25	22.81	23.15	23.12	0.4227	0.4571	0.4539
10	QPSK	1	49	22.79	23.07	22.66	0.4207	0.4487	0.4083
10	QPSK	25	0	21.93	21.91	22.17	0.3451	0.3436	0.3648
10	QPSK	25	12	22.06	22.03	22.07	0.3556	0.3532	0.3565
10	QPSK	25	25	22.05	22.00	22.00	0.3548	0.3508	0.3508
10	QPSK	50	0	22.05	22.07	22.06	0.3548	0.3565	0.3556
10	16QAM	1	0	21.59	21.57	21.59	0.3192	0.3177	0.3192
10	16QAM	1	25	21.85	21.86	21.97	0.3388	0.3396	0.3483
10	16QAM	1	49	21.70	21.83	21.67	0.3273	0.3373	0.3251
10	16QAM	25	0	20.94	20.85	21.01	0.2748	0.2692	0.2793
10	16QAM	25	12	21.03	20.95	21.06	0.2805	0.2754	0.2825
10	16QAM	25	25	20.98	20.83	21.24	0.2773	0.2679	0.2944
10	16QAM	50	0	21.02	21.02	21.11	0.2799	0.2799	0.2858
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	22.86	22.77	22.79	0.4276	0.4188	0.4207
5	QPSK	1	12	22.93	22.88	22.98	0.4345	0.4295	0.4395
5	QPSK	1	24	22.51	22.93	22.59	0.3945	0.4345	0.4018
5	QPSK	12	0	21.86	21.92	21.93	0.3396	0.3443	0.3451
5	QPSK	12	7	22.00	22.12	21.88	0.3508	0.3606	0.3412
5	QPSK	12	13	21.83	21.98	21.94	0.3373	0.3491	0.3459
5	QPSK	25	0	21.91	22.01	22.00	0.3436	0.3516	0.3508
5	16QAM	1	0	21.64	21.56	21.69	0.3228	0.3170	0.3266
5	16QAM	1	12	21.75	21.64	21.55	0.3311	0.3228	0.3162
5	16QAM	1	24	21.52	21.48	21.47	0.3141	0.3112	0.3105
5	16QAM	12	0	20.70	20.76	20.80	0.2600	0.2636	0.2661
5	16QAM	12	7	20.70	20.96	20.76	0.2600	0.2761	0.2636
5	16QAM	12	13	20.68	21.13	20.70	0.2588	0.2871	0.2600
5	16QAM	25	0	20.87	21.14	20.87	0.2704	0.2877	0.2704
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	22.71	22.72	23.11	0.4130	0.4140	0.4529
3	QPSK	1	8	22.98	22.74	23.07	0.4395	0.4159	0.4487
3	QPSK	1	14	22.60	22.66	22.92	0.4027	0.4083	0.4335
3	QPSK	8	0	22.01	22.04	22.19	0.3516	0.3540	0.3664
3	QPSK	8	4	21.94	22.12	22.07	0.3459	0.3606	0.3565
3	QPSK	8	7	21.91	22.03	21.99	0.3436	0.3532	0.3499
3	QPSK	15	0	21.94	22.04	22.06	0.3459	0.3540	0.3556
3	16QAM	1	0	21.83	21.50	21.74	0.3373	0.3126	0.3304



3	16QAM	1	8	21.77	21.63	21.75	0.3327	0.3221	0.3311
3	16QAM	1	14	21.77	21.48	21.74	0.3327	0.3112	0.3304
3	16QAM	8	0	20.88	21.02	21.11	0.2710	0.2799	0.2858
3	16QAM	8	4	21.08	21.12	21.01	0.2838	0.2864	0.2793
3	16QAM	8	7	20.99	21.02	21.02	0.2780	0.2799	0.2799
3	16QAM	15	0	20.89	20.95	21.06	0.2716	0.2754	0.2825
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	22.93	22.90	22.81	0.4345	0.4315	0.4227
1.4	QPSK	1	3	23.10	22.93	22.89	0.4519	0.4345	0.4305
1.4	QPSK	1	5	22.84	22.80	22.65	0.4256	0.4217	0.4074
1.4	QPSK	3	0	22.99	23.10	22.98	0.4406	0.4519	0.4395
1.4	QPSK	3	1	23.10	23.09	23.02	0.4519	0.4508	0.4436
1.4	QPSK	3	3	23.08	23.00	22.98	0.4498	0.4416	0.4395
1.4	QPSK	6	0	22.04	22.00	22.00	0.3540	0.3508	0.3508
1.4	16QAM	1	0	21.90	21.75	22.16	0.3428	0.3311	0.3639
1.4	16QAM	1	3	22.09	21.92	22.28	0.3581	0.3443	0.3741
1.4	16QAM	1	5	21.98	21.63	22.11	0.3491	0.3221	0.3597
1.4	16QAM	3	0	21.96	22.12	21.96	0.3475	0.3606	0.3475
1.4	16QAM	3	1	21.98	21.84	22.00	0.3491	0.3381	0.3508
1.4	16QAM	3	3	21.92	21.82	21.90	0.3443	0.3365	0.3428
1.4	16QAM	6	0	20.83	20.89	20.93	0.2679	0.2716	0.2742



LTE Band 13_Ant3:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		22.76			0.3990	
10	QPSK	1	25		22.80			0.4027	
10	QPSK	1	49		22.43			0.3698	
10	QPSK	25	0		21.52			0.2999	
10	QPSK	25	12		21.66			0.3097	
10	QPSK	25	25		21.48			0.2972	
10	QPSK	50	0		21.52			0.2999	
10	16QAM	1	0		21.70			0.3126	
10	16QAM	1	25		21.50			0.2985	
10	16QAM	1	49		21.22			0.2799	
10	16QAM	25	0		20.48			0.2360	
10	16QAM	25	12		20.60			0.2427	
10	16QAM	25	25		20.53			0.2388	
10	16QAM	50	0		20.56			0.2404	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.46	22.43	22.30	0.3724	0.3698	0.3589
5	QPSK	1	12	22.50	22.59	22.69	0.3758	0.3837	0.3926
5	QPSK	1	24	22.30	22.45	22.19	0.3589	0.3715	0.3499
5	QPSK	12	0	21.44	21.47	21.52	0.2944	0.2965	0.2999
5	QPSK	12	7	21.60	21.61	21.62	0.3055	0.3062	0.3069
5	QPSK	12	13	21.45	21.49	21.45	0.2951	0.2979	0.2951
5	QPSK	25	0	21.56	21.59	21.55	0.3027	0.3048	0.3020
5	16QAM	1	0	21.57	21.32	21.66	0.3034	0.2864	0.3097
5	16QAM	1	12	21.22	21.36	21.53	0.2799	0.2891	0.3006
5	16QAM	1	24	21.26	21.39	21.19	0.2825	0.2911	0.2780
5	16QAM	12	0	20.57	20.53	20.57	0.2410	0.2388	0.2410
5	16QAM	12	7	20.37	20.36	20.57	0.2301	0.2296	0.2410
5	16QAM	12	13	20.39	20.33	20.51	0.2312	0.2280	0.2377
5	16QAM	25	0	20.60	20.63	20.61	0.2427	0.2443	0.2432



LTE Band 17_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711	L	M	H
10	QPSK	1	0	22.50	22.44	22.29	0.3936	0.3882	0.3750
10	QPSK	1	25	22.75	22.67	22.74	0.4169	0.4093	0.4159
10	QPSK	1	49	22.71	22.65	22.30	0.4130	0.4074	0.3758
10	QPSK	25	0	21.82	21.76	21.69	0.3365	0.3319	0.3266
10	QPSK	25	12	21.84	21.69	21.70	0.3381	0.3266	0.3273
10	QPSK	25	25	21.85	21.65	21.78	0.3388	0.3236	0.3334
10	QPSK	50	0	21.79	21.75	21.82	0.3342	0.3311	0.3365
10	16QAM	1	0	21.42	21.41	21.38	0.3069	0.3062	0.3041
10	16QAM	1	25	21.69	21.56	21.79	0.3266	0.3170	0.3342
10	16QAM	1	49	21.70	21.41	21.38	0.3273	0.3062	0.3041
10	16QAM	25	0	20.90	20.70	20.61	0.2723	0.2600	0.2547
10	16QAM	25	12	20.58	20.75	20.57	0.2529	0.2630	0.2523
10	16QAM	25	25	20.80	20.80	20.83	0.2661	0.2661	0.2679
10	16QAM	50	0	20.84	20.80	20.56	0.2685	0.2661	0.2518
Channel				23755	23790	23825	ERP(W)		
Frequency (MHz)				706.5	710	713.5	L	M	H
5	QPSK	1	0	22.42	22.40	22.44	0.3864	0.3846	0.3882
5	QPSK	1	12	22.63	22.59	22.64	0.4055	0.4018	0.4064
5	QPSK	1	24	22.63	22.54	22.24	0.4055	0.3972	0.3707
5	QPSK	12	0	21.65	21.58	21.77	0.3236	0.3184	0.3327
5	QPSK	12	7	21.78	21.76	21.72	0.3334	0.3319	0.3289
5	QPSK	12	13	21.82	21.67	21.58	0.3365	0.3251	0.3184
5	QPSK	25	0	21.79	21.63	21.67	0.3342	0.3221	0.3251
5	16QAM	1	0	21.46	21.28	21.45	0.3097	0.2972	0.3090
5	16QAM	1	12	21.42	21.50	21.12	0.3069	0.3126	0.2864
5	16QAM	1	24	21.42	21.36	21.11	0.3069	0.3027	0.2858
5	16QAM	12	0	20.62	20.53	20.45	0.2553	0.2500	0.2455
5	16QAM	12	7	20.74	20.55	20.50	0.2624	0.2512	0.2483
5	16QAM	12	13	20.77	20.71	20.38	0.2642	0.2606	0.2415
5	16QAM	25	0	20.76	20.67	20.63	0.2636	0.2582	0.2559



LTE Band 66_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	23.02	23.14	23.07	0.6486	0.6668	0.6561
20	QPSK	1	49	23.05	23.15	23.35	0.6531	0.6683	0.6998
20	QPSK	1	99	22.85	22.87	22.87	0.6237	0.6266	0.6266
20	QPSK	50	0	21.67	22.14	22.07	0.4753	0.5297	0.5212
20	QPSK	50	24	21.75	21.89	22.13	0.4842	0.5000	0.5284
20	QPSK	50	50	21.73	21.92	21.93	0.4819	0.5035	0.5047
20	QPSK	100	0	21.89	22.11	22.12	0.5000	0.5260	0.5272
20	16QAM	1	0	21.58	21.84	21.98	0.4656	0.4943	0.5105
20	16QAM	1	49	21.63	21.65	21.83	0.4710	0.4732	0.4932
20	16QAM	1	99	21.53	21.76	21.58	0.4603	0.4853	0.4656
20	16QAM	50	0	20.81	21.03	21.15	0.3899	0.4102	0.4217
20	16QAM	50	24	20.73	21.08	21.16	0.3828	0.4150	0.4227
20	16QAM	50	50	20.78	21.01	20.88	0.3873	0.4083	0.3963
20	16QAM	100	0	20.88	21.18	21.01	0.3963	0.4246	0.4083
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	22.71	23.21	23.17	0.6039	0.6776	0.6714
15	QPSK	1	37	23.07	23.25	22.86	0.6561	0.6839	0.6252
15	QPSK	1	74	22.73	23.00	22.93	0.6067	0.6457	0.6353
15	QPSK	36	0	21.81	22.26	22.07	0.4909	0.5445	0.5212
15	QPSK	36	20	21.71	21.98	21.94	0.4797	0.5105	0.5058
15	QPSK	36	39	21.81	21.91	22.05	0.4909	0.5023	0.5188
15	QPSK	75	0	21.82	22.10	21.97	0.4920	0.5248	0.5093
15	16QAM	1	0	21.63	21.79	21.82	0.4710	0.4887	0.4920
15	16QAM	1	37	21.68	21.57	22.02	0.4764	0.4645	0.5152
15	16QAM	1	74	21.75	21.71	21.81	0.4842	0.4797	0.4909
15	16QAM	36	0	20.71	21.09	21.04	0.3811	0.4159	0.4111
15	16QAM	36	20	20.68	20.99	21.00	0.3784	0.4064	0.4074
15	16QAM	36	39	20.72	21.04	20.90	0.3819	0.4111	0.3981
15	16QAM	75	0	20.87	21.13	21.05	0.3954	0.4198	0.4121
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	22.61	22.94	23.12	0.5902	0.6368	0.6637
10	QPSK	1	25	22.55	23.00	22.97	0.5821	0.6457	0.6412
10	QPSK	1	49	22.60	22.79	22.83	0.5888	0.6152	0.6209
10	QPSK	25	0	21.75	21.92	21.97	0.4842	0.5035	0.5093
10	QPSK	25	12	21.63	21.87	22.11	0.4710	0.4977	0.5260
10	QPSK	25	25	21.62	21.87	22.13	0.4699	0.4977	0.5284
10	QPSK	50	0	21.57	21.90	22.02	0.4645	0.5012	0.5152
10	16QAM	1	0	21.66	21.73	21.79	0.4742	0.4819	0.4887



10	16QAM	1	25	21.65	21.74	21.93	0.4732	0.4831	0.5047
10	16QAM	1	49	21.69	21.68	21.74	0.4775	0.4764	0.4831
10	16QAM	25	0	20.71	21.02	20.95	0.3811	0.4093	0.4027
10	16QAM	25	12	20.64	21.16	21.17	0.3750	0.4227	0.4236
10	16QAM	25	25	20.52	20.83	21.09	0.3648	0.3917	0.4159
10	16QAM	50	0	20.60	21.02	21.20	0.3715	0.4093	0.4266
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.66	22.92	23.02	0.5970	0.6339	0.6486
5	QPSK	1	12	22.52	22.89	23.02	0.5781	0.6295	0.6486
5	QPSK	1	24	22.61	22.95	23.13	0.5902	0.6383	0.6653
5	QPSK	12	0	21.67	21.86	22.04	0.4753	0.4966	0.5176
5	QPSK	12	7	21.75	21.91	22.08	0.4842	0.5023	0.5224
5	QPSK	12	13	21.68	22.05	22.21	0.4764	0.5188	0.5383
5	QPSK	25	0	21.77	21.98	22.16	0.4864	0.5105	0.5321
5	16QAM	1	0	21.59	21.62	21.53	0.4667	0.4699	0.4603
5	16QAM	1	12	21.53	21.57	21.96	0.4603	0.4645	0.5082
5	16QAM	1	24	21.52	21.54	21.70	0.4592	0.4613	0.4786
5	16QAM	12	0	20.67	21.06	20.76	0.3776	0.4130	0.3855
5	16QAM	12	7	20.76	21.24	21.20	0.3855	0.4305	0.4266
5	16QAM	12	13	20.53	21.13	21.05	0.3656	0.4198	0.4121
5	16QAM	25	0	20.73	21.01	21.10	0.3828	0.4083	0.4169
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	22.64	23.14	22.85	0.5943	0.6668	0.6237
3	QPSK	1	8	22.55	22.72	23.21	0.5821	0.6053	0.6776
3	QPSK	1	14	22.56	22.60	22.92	0.5834	0.5888	0.6339
3	QPSK	8	0	21.62	21.89	22.01	0.4699	0.5000	0.5140
3	QPSK	8	4	21.80	21.89	22.15	0.4898	0.5000	0.5309
3	QPSK	8	7	21.68	21.88	22.10	0.4764	0.4989	0.5248
3	QPSK	15	0	21.70	21.84	22.08	0.4786	0.4943	0.5224
3	16QAM	1	0	21.55	21.68	21.76	0.4624	0.4764	0.4853
3	16QAM	1	8	21.83	21.58	21.64	0.4932	0.4656	0.4721
3	16QAM	1	14	21.77	21.60	21.93	0.4864	0.4677	0.5047
3	16QAM	8	0	20.71	20.98	21.11	0.3811	0.4055	0.4178
3	16QAM	8	4	20.75	20.91	20.98	0.3846	0.3990	0.4055
3	16QAM	8	7	20.58	21.07	21.20	0.3698	0.4140	0.4266
3	16QAM	15	0	20.60	20.82	21.18	0.3715	0.3908	0.4246
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	22.61	22.67	23.02	0.5902	0.5984	0.6486
1.4	QPSK	1	3	22.68	22.90	23.18	0.5998	0.6310	0.6730
1.4	QPSK	1	5	22.65	22.66	23.06	0.5957	0.5970	0.6546
1.4	QPSK	3	0	22.67	23.10	22.87	0.5984	0.6607	0.6266
1.4	QPSK	3	1	22.79	22.98	23.05	0.6152	0.6427	0.6531



1.4	QPSK	3	3	22.67	22.96	23.03	0.5984	0.6397	0.6501
1.4	QPSK	6	0	21.68	21.90	22.21	0.4764	0.5012	0.5383
1.4	16QAM	1	0	21.67	21.59	21.77	0.4753	0.4667	0.4864
1.4	16QAM	1	3	21.77	21.69	22.11	0.4864	0.4775	0.5260
1.4	16QAM	1	5	21.70	21.69	21.73	0.4786	0.4775	0.4819
1.4	16QAM	3	0	21.56	21.81	22.11	0.4634	0.4909	0.5260
1.4	16QAM	3	1	21.50	21.94	22.17	0.4571	0.5058	0.5333
1.4	16QAM	3	3	21.65	21.81	22.15	0.4732	0.4909	0.5309
1.4	16QAM	6	0	20.63	20.85	21.11	0.3741	0.3936	0.4178



LTE Band 71_Ant2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688	L	M	H
20	QPSK	1	0	23.16	23.01	22.97	0.3396	0.3281	0.3251
20	QPSK	1	49	23.34	23.12	23.05	0.3540	0.3365	0.3311
20	QPSK	1	99	23.01	22.92	22.89	0.3281	0.3214	0.3192
20	QPSK	50	0	22.14	21.93	21.73	0.2685	0.2559	0.2443
20	QPSK	50	24	22.22	21.79	21.81	0.2735	0.2477	0.2489
20	QPSK	50	50	21.95	21.83	21.75	0.2570	0.2500	0.2455
20	QPSK	100	0	21.95	21.94	21.70	0.2570	0.2564	0.2427
20	16QAM	1	0	21.87	21.95	21.55	0.2523	0.2570	0.2344
20	16QAM	1	49	22.05	21.94	21.57	0.2630	0.2564	0.2355
20	16QAM	1	99	21.66	22.03	21.73	0.2404	0.2618	0.2443
20	16QAM	50	0	20.94	20.82	20.95	0.2037	0.1982	0.2042
20	16QAM	50	24	21.06	20.94	20.82	0.2094	0.2037	0.1982
20	16QAM	50	50	21.08	20.97	20.88	0.2104	0.2051	0.2009
20	16QAM	100	0	20.97	20.95	20.79	0.2051	0.2042	0.1968
Channel				133197	133297	133397	EIRP(W)		
Frequency (MHz)				670.5	680.5	690.5	L	M	H
15	QPSK	1	0	23.18	23.25	22.88	0.3412	0.3467	0.3184
15	QPSK	1	37	23.27	23.12	22.98	0.3483	0.3365	0.3258
15	QPSK	1	74	22.93	22.95	22.81	0.3221	0.3236	0.3133
15	QPSK	36	0	22.00	21.93	21.60	0.2600	0.2559	0.2371
15	QPSK	36	20	22.07	21.79	21.69	0.2642	0.2477	0.2421
15	QPSK	36	39	21.87	21.76	21.70	0.2523	0.2460	0.2427
15	QPSK	75	0	21.81	21.74	21.64	0.2489	0.2449	0.2393
15	16QAM	1	0	21.74	21.89	21.50	0.2449	0.2535	0.2317
15	16QAM	1	37	21.91	21.75	21.49	0.2547	0.2455	0.2312
15	16QAM	1	74	21.57	21.64	21.58	0.2355	0.2393	0.2360
15	16QAM	36	0	20.79	20.95	20.85	0.1968	0.2042	0.1995
15	16QAM	36	20	20.99	20.82	20.69	0.2061	0.1982	0.1923
15	16QAM	36	39	20.96	20.79	20.82	0.2046	0.1968	0.1982
15	16QAM	75	0	20.87	20.76	20.74	0.2004	0.1954	0.1945
Channel				133172	133272	133422	EIRP(W)		
Frequency (MHz)				668	678	693	L	M	H
10	QPSK	1	0	22.96	23.00	22.84	0.3243	0.3273	0.3155
10	QPSK	1	25	23.29	23.02	22.99	0.3499	0.3289	0.3266
10	QPSK	1	49	22.92	22.84	22.85	0.3214	0.3155	0.3162
10	QPSK	25	0	22.06	21.94	21.58	0.2636	0.2564	0.2360
10	QPSK	25	12	22.07	21.92	21.74	0.2642	0.2553	0.2449
10	QPSK	25	25	21.83	21.82	21.69	0.2500	0.2495	0.2421
10	QPSK	50	0	21.90	21.77	21.57	0.2541	0.2466	0.2355



10	16QAM	1	0	21.75	21.71	21.43	0.2455	0.2432	0.2280
10	16QAM	1	25	21.91	21.88	21.46	0.2547	0.2529	0.2296
10	16QAM	1	49	21.53	21.62	21.65	0.2333	0.2382	0.2399
10	16QAM	25	0	20.89	20.83	20.82	0.2014	0.1986	0.1982
10	16QAM	25	12	20.97	20.93	20.73	0.2051	0.2032	0.1941
10	16QAM	25	25	20.94	20.84	20.73	0.2037	0.1991	0.1941
10	16QAM	50	0	20.83	20.81	20.65	0.1986	0.1977	0.1905
Channel				133147	133247	133447	EIRP(W)		
Frequency (MHz)				665.5	675.5	695.5	L	M	H
5	QPSK	1	0	23.02	22.78	22.89	0.3289	0.3112	0.3192
5	QPSK	1	12	23.15	22.88	22.98	0.3388	0.3184	0.3258
5	QPSK	1	24	22.87	22.71	22.75	0.3177	0.3062	0.3090
5	QPSK	12	0	22.06	21.69	21.61	0.2636	0.2421	0.2377
5	QPSK	12	7	22.07	21.81	21.66	0.2642	0.2489	0.2404
5	QPSK	12	13	21.87	21.78	21.70	0.2523	0.2472	0.2427
5	QPSK	25	0	21.88	21.75	21.63	0.2529	0.2455	0.2388
5	16QAM	1	0	21.75	21.45	21.45	0.2455	0.2291	0.2291
5	16QAM	1	12	21.91	21.62	21.44	0.2547	0.2382	0.2286
5	16QAM	1	24	21.60	21.49	21.61	0.2371	0.2312	0.2377
5	16QAM	12	0	20.85	20.65	20.85	0.1995	0.1905	0.1995
5	16QAM	12	7	20.93	20.75	20.75	0.2032	0.1950	0.1950
5	16QAM	12	13	20.98	20.93	20.79	0.2056	0.2032	0.1968
5	16QAM	25	0	20.90	20.79	20.72	0.2018	0.1968	0.1936



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	PingZhou Liang	Temperature :	21~25°C
		Relative Humidity :	51~53%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to test.

LTE Band 2 / 20MHz / QPSK/ Antenna 1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742	-60.31	-13	-47.31	-78.89	-67.06	5.85	12.60	H
	5613	-51.19	-13	-38.19	-73.58	-56.99	7.30	13.10	H
	7484	-54.71	-13	-41.71	-81.64	-57.86	8.35	11.50	H
	3742	-61.47	-13	-48.47	-79.97	-68.22	5.85	12.60	V
	5613	-47.69	-13	-34.69	-70.27	-53.49	7.30	13.10	V
	7484	-54.74	-13	-41.74	-81.66	-57.89	8.35	11.50	V

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

LTE Band 5 / 20MHz / QPSK/ Antenna 1									
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	1664	-63.43	-13	-50.43	-73.37	-66.68	4.00	9.40	H
	2496	-56.54	-13	-43.54	-70.98	-60.11	4.88	10.60	H
	3328	-62.51	-13	-49.51	-78.67	-67.44	5.52	12.60	H
	1664	-66.41	-13	-53.41	-75.95	-69.66	4.00	9.40	V
	2496	-63.12	-13	-50.12	-77.52	-66.69	4.88	10.60	V
	3328	-62.74	-13	-49.74	-78.66	-67.67	5.52	12.60	V

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

LTE Band 12 / 10MHz / QPSK/ Antenna 1									
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	1406	-56.12	-13	-43.12	-66.85	-59.37	4.00	9.40	H
	2109	-60.02	-13	-47.02	-73.06	-63.59	4.88	10.60	H
	2812	-62.31	-13	-49.31	-78.33	-67.24	5.52	12.60	H
	1406	-60.60	-13	-47.60	-70.89	-63.85	4.00	9.40	V
	2109	-63.52	-13	-50.52	-76.51	-67.09	4.88	10.60	V
	2812	-61.94	-13	-48.94	-78.15	-66.87	5.52	12.60	V

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



LTE Band 13 / 5MHz / QPSK/ Antenna 1									
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	1559.5	-61.71	-42.15	-19.56	-71.73	-64.96	4.00	9.40	H
	2339.25	-47.09	-13	-34.09	-61.84	-50.66	4.88	10.60	H
	3119	-60.82	-13	-47.82	-77.95	-65.75	5.52	12.60	H
	1559.5	-65.10	-42.15	-22.95	-75.20	-68.35	4.00	9.40	V
	2339.25	-55.82	-13	-42.82	-70.57	-59.39	4.88	10.60	V
	3119	-61.05	-13	-48.05	-78.22	-65.98	5.52	12.60	V

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

LTE Band 13 / 10MHz / QPSK/ Antenna 1									
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	1559.5	-62.62	-42.15	-20.47	-72.64	-65.87	4.00	9.40	H
	2339.25	-56.04	-13	-43.04	-70.79	-59.61	4.88	10.60	H
	3119	-60.79	-13	-47.79	-77.92	-65.72	5.52	12.60	H
	1559.5	-65.34	-42.15	-23.19	-75.44	-68.59	4.00	9.40	V
	2339.25	-60.51	-13	-47.51	-75.26	-64.08	4.88	10.60	V
	3119	-60.86	-13	-47.86	-78.03	-65.79	5.52	12.60	V

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

LTE Band 66/ 20MHz / QPSK/ Antenna 1									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-38.56	-13	-25.56	-55.46	-45.41	5.65	12.50	H
	5208	-51.38	-13	-38.38	-73.11	-57.05	7.13	12.80	H
	6944	-56.06	-13	-43.06	-81.98	-59.46	8.40	11.80	H
	3472	-45.46	-13	-32.46	-62.38	-52.31	5.65	12.50	V
	5208	-48.19	-13	-35.19	-70.17	-53.86	7.13	12.80	V
	6944	-55.69	-13	-42.69	-82.08	-59.09	8.40	11.80	V

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

LTE Band 71 / 20MHz / QPSK/ Antenna 1									
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	1348	-59.35	-13	-46.35	-69.43	-62.60	4.00	9.40	H
	2022	-57.67	-13	-44.67	-69.04	-61.24	4.88	10.60	H
	2696	-62.22	-13	-49.22	-77.57	-67.15	5.52	12.60	H
	1348	-64.19	-13	-51.19	-73.90	-67.44	4.00	9.40	V
	2022	-62.79	-13	-49.79	-74.05	-66.36	4.88	10.60	V
	2696	-62.13	-13	-49.13	-77.52	-67.06	5.52	12.60	V

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