

FCC Test Report (Part 27)

Report No.: RFBBQZ-WTW-P20090593-2

Contain module FCC ID: PY320300503

Test Model: LM1200

Received Date: Sep. 25, 2020

Test Date: Oct. 19 ~ Oct. 24, 2020

Issued Date: Nov. 02, 2020

Applicant: NETGEAR INC.

Address: 350 East Plumeria Drive, San Jose, CA 95134, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P20090593-2	Original release	Nov. 02, 2020

1 Certificate of Conformity

Product: LTE modem

Brand: Netgear

Test Model: LM1200

Sample Status: Engineering Sample

Applicant: NETGEAR INC.

Test Date: Oct. 19 ~ Oct. 24, 2020

Standards: FCC Part 27, Subpart C, D, F, H, L, N

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen, **Date:** Nov. 02, 2020
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Nov. 02, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2						
FCC Clause				Test Item	Result	Remarks
WCDMA B4 / LTE B4	LTE B12 / LTE B71	LTE B13	LTE B66			
2.1046 27.50 (d)(4)	2.1046 27.50 (c)	2.1046 27.50 (b)	2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1053 27.53(h)	2.1053 27.53(g)	2.1053 27.53(c)(f)	2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -14.2dB at 1564.00MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM80 00	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
DC power supply	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	LTE modem		
Brand	Netgear		
Test Model	LM1200		
Status of EUT	Engineering Sample		
Power Supply Rating	5 Vdc (Adapter)		
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM		
Operating Frequency	WCDMA Band 4		1712.4MHz ~ 1752.6MHz
	LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1754.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1753.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1752.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1750.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1747.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz
		Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz
		Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz
		Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz
	LTE Band 13	Channel Bandwidth 5MHz	779.5MHz ~ 784.5MHz
		Channel Bandwidth 10MHz	782.0MHz
Operating Frequency	LTE Band 66	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1779.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1778.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1777.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1775.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1772.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1770.0MHz
	LTE Band 71	Channel Bandwidth 5MHz	665.5MHz ~ 695.5MHz
		Channel Bandwidth 10MHz	668.0MHz ~ 693.0MHz
		Channel Bandwidth 15MHz	670.5MHz ~ 690.5MHz
		Channel Bandwidth 20MHz	673.0MHz ~ 688.0MHz

Max. EIRP Power	WCDMA Band 4		158.489mW (22.0dBm)	
			QPSK	16QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	181.970mW (22.6dBm)	134.896mW (21.3dBm)
		Channel Bandwidth 3MHz	181.970mW (22.6dBm)	134.896mW (21.3dBm)
		Channel Bandwidth 5MHz	186.209mW (22.7dBm)	138.038mW (21.4dBm)
		Channel Bandwidth 10MHz	186.209mW (22.7dBm)	141.254mW (21.5dBm)
		Channel Bandwidth 15MHz	186.209mW (22.7dBm)	147.911mW (21.7dBm)
		Channel Bandwidth 20MHz	194.984mW (22.9dBm)	151.356mW (21.8dBm)
	LTE Band 66	Channel Bandwidth 1.4MHz	162.181mW (22.1dBm)	134.896mW (21.3dBm)
		Channel Bandwidth 3MHz	169.824mW (22.3dBm)	138.038mW (21.4dBm)
		Channel Bandwidth 5MHz	181.970mW (22.6dBm)	141.254mW (21.5dBm)
		Channel Bandwidth 10MHz	177.828mW (22.5dBm)	144.544mW (21.6dBm)
		Channel Bandwidth 15MHz	173.780mW (22.4dBm)	138.038mW (21.4dBm)
		Channel Bandwidth 20MHz	165.959mW (22.2dBm)	138.038mW (21.4dBm)
Max. ERP Power			QPSK	16QAM
	LTE Band 12	Channel Bandwidth 1.4MHz	107.152mW (20.3dBm)	85.114mW (19.3dBm)
		Channel Bandwidth 3MHz	100.000mW (20.0dBm)	79.433mW (19.0dBm)
		Channel Bandwidth 5MHz	100.000mW (20.0dBm)	779.433mW (19.0dBm)
		Channel Bandwidth 10MHz	91.201mW (19.6dBm)	72.444mW (18.6dBm)
	LTE Band 13	Channel Bandwidth 5MHz	213.796mW (23.3dBm)	177.828mW (22.5dBm)
		Channel Bandwidth 10MHz	223.872mW (23.5dBm)	177.828mW (22.5dBm)
	LTE Band 71	Channel Bandwidth 5MHz	177.828mW (22.5dBm)	144.544mW (21.6dBm)
		Channel Bandwidth 10MHz	165.959mW (22.2dBm)	141.254mW (21.5dBm)
		Channel Bandwidth 15MHz	169.824mW (22.3dBm)	144.544mW (21.6dBm)
		Channel Bandwidth 20MHz	162.181mW (22.1dBm)	131.826mW (21.2dBm)
Antenna Type	WCDMA Band 4, LTE Band 4: Ant. 1: PIFA antenna with 1.61dBi gain Ant. 2: PIFA antenna with 1.47dBi gain LTE Band 12: Ant. 1: PIFA antenna with -0.28dBi gain Ant. 2: PIFA antenna with -1.73dBi gain LTE Band 13: Ant. 1: PIFA antenna with -0.59dBi gain Ant. 2: PIFA antenna with -2.55dBi gain LTE Band 66: Ant. 1: PIFA antenna with 2.01dBi gain Ant. 2: PIFA antenna with 1.47dBi gain LTE Band 71: Ant. 1: PIFA antenna with -1.08dBi gain Ant. 2: PIFA antenna with -2.02dBi gain			
Antenna Connector	Ant. 1: switch Ant. 2: I-pex			
Accessory Device	Refer to Note			
Cable Supplied	Refer to Note			

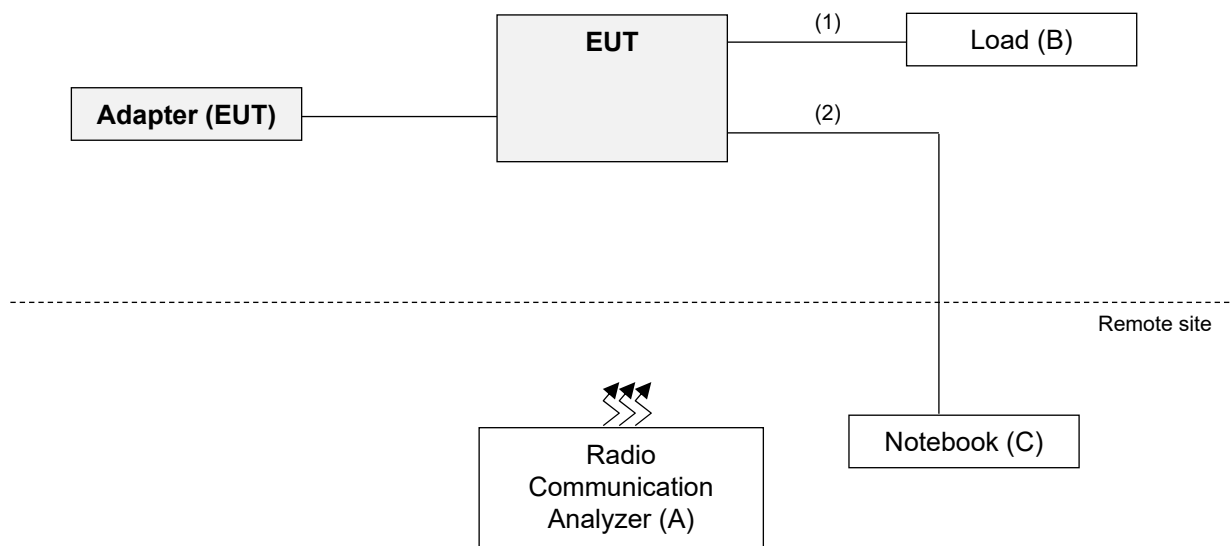
Note:

1. This report is a partial report. Only Equivalent Isotropically Radiated Power / Equivalent Radiated Power and Radiated Spurious Emissions were verified and recorded in this report. Other testing data please refer to the original TA Technology (Shanghai) Co., Ltd. report no.: R1806A0301-R3V1 (LTE Module, Brand: Quectel, Model: EC25-AF, FCC ID: XMR201808EC25AF).
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. The EUT contains following accessory devices.

Adapter	
Brand	Netgear
Model	AD2037320
Input Power	100-240Vac~50/60Hz, 0.3A
Output Power	5.0Vdc, 2.0A

Cable	Brand	Model	Information
USB cable	HOTRON PRECISION	D0017100R20HR	1.0m shielded cable without core
RJ45 Cable 1	EKSON	HS01-C442	1.5m non-shielded cable without core
RJ45 Cable 2	EKSON	HS01-C445	1.5m non-shielded cable without core

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	-
B.	Load	NA	NA	NA	NA	-
C.	Notebook	DELL	E5410	1HC2XM1	FCC Doc Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A, C acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	1	1.5	N	0	RJ45, Accessory
2.	LAN cable	1	10	N	0	RJ45, Provided by lab

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane (For WCDMA Band 4, LTE Band 4, 66) and X-plane (For LTE Band 12, 13, 71). Following channel(s) was (were) selected for the final test as listed below.

WCDMA Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA
-	Radiated Emission Below 1GHz	1312 to 1513	1513(1752.6MHz)	WCDMA
-	Radiated Emission Above 1GHz	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	19975 to 20375	20175(1732.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

LTE Band 12

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5 MHz), 23130(711.0 MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23017 to 23173	23017(699.7MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5 MHz), 23130(711.0 MHz)	10MHz	QPSK	1 RB / 0 RB Offset

LTE Band 13

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

LTE Band 66

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132322 (1745.0MHz), 132657 (1778.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132322 (1745.0MHz), 132622 (1775.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132322 (1745.0MHz), 132597 (1772.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	131979 to 132665	132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

LTE Band 71

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		133172 to 133422	133172 (668.0MHz), 133297 (680.5MHz), 133422 (693.0MHz)	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		133197 to 133397	133197 (670.5MHz), 133297 (680.5MHz), 133397 (690.5MHz)	15 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20 MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	133222 to 133372	133297 (680.5MHz)	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	133147 to 133447	133147 (665.5MHz), 133297 (680.5MHz), 133447 (695.5MHz)	5 MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133222 (673.0MHz), 133297 (680.5MHz), 133372 (688.0MHz)	20 MHz	QPSK	1 RB / 0 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP / ERP	24deg. C, 66%RH	120Vac, 60Hz	Tank Wu
Radiated Emission	24deg. C, 66%RH	120Vac, 60Hz	Tank Wu

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

WCDMA, LTE Band 4, LTE Band 66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

LTE Band 12, LTE Band 13, LTE Band 71:

Control and mobile stations in the 698-746 MHz, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 3 watts ERP.

4.1.2 Test Procedures

Maximum EIRP

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.2.7

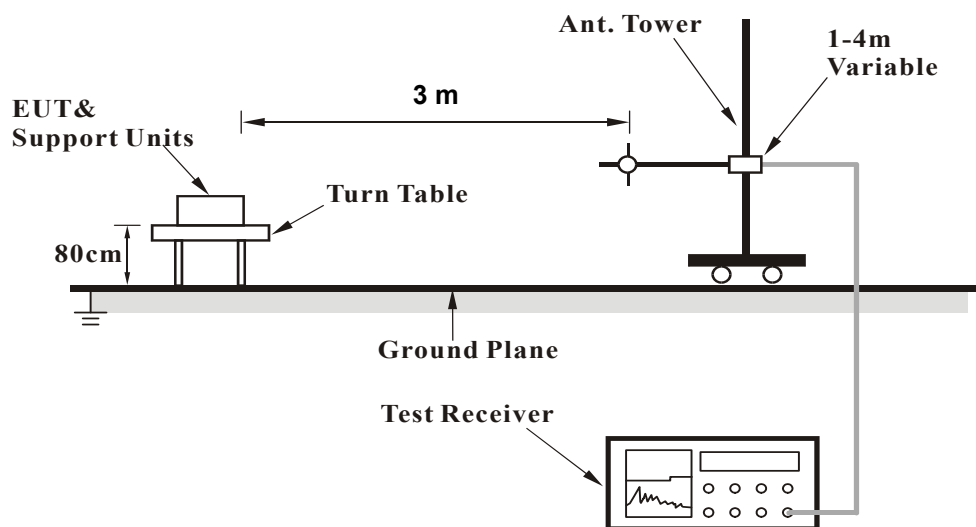
$EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

$ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

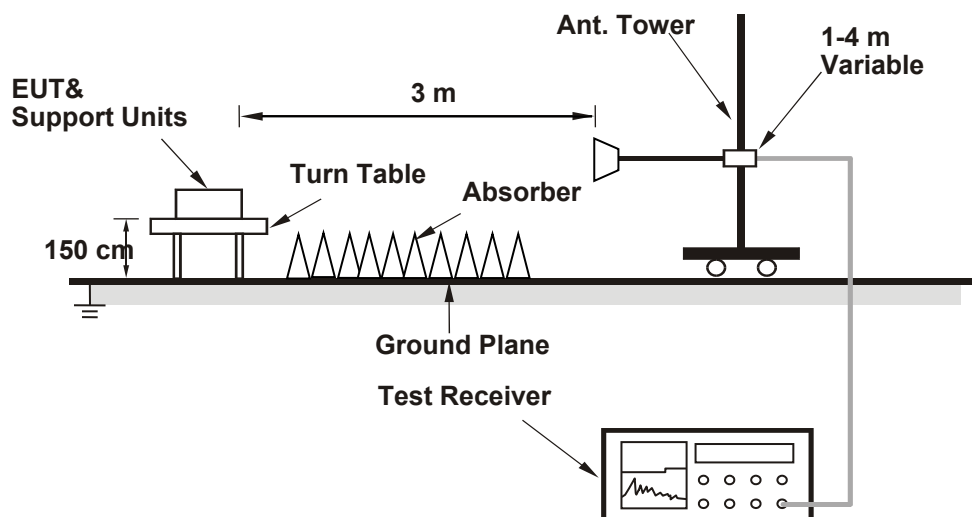
4.1.3 Test Setup

EIRP Measurement:

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

EIRP Power(dBm)

WCDMA Band 4

Mode		TX channel 1312, 1413, 1513						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.4	-66.9	88.9	22.0	30.0	-8.0	188	186
2	1732.6	-66.8	88.5	21.7	30.0	-8.3	192	186
3	1752.6	-66.7	88.6	21.9	30.0	-8.1	182	185
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.4	-66.9	87.9	21.0	30.0	-9.0	359	9
2	1732.6	-66.8	88.0	21.2	30.0	-8.8	353	7
3	1752.6	-66.7	88.3	21.6	30.0	-8.4	342	9

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

Modulation Type: QPSK

LTE Band 4, Channel Bandwidth: 1.4MHz

Mode		TX channel 19957, 20175, 20393						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	88.2	21.3	30.0	-8.7	149	166
2	1732.5	-66.8	88.0	21.2	30.0	-8.8	133	145
3	1754.3	-66.7	88.2	21.5	30.0	-8.5	149	147
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	89.2	22.3	30.0	-7.7	276	40
2	1732.5	-66.8	89.4	22.6	30.0	-7.4	327	36
3	1754.3	-66.7	88.9	22.2	30.0	-7.8	313	37

LTE Band 4, Channel Bandwidth: 3MHz

Mode		TX channel 19965, 20175, 20385						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	88.0	21.1	30.0	-8.9	144	138
2	1732.5	-66.8	88.2	21.4	30.0	-8.6	137	144
3	1753.5	-66.7	88.0	21.3	30.0	-8.7	147	149
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	88.9	22.0	30.0	-8.0	378	20
2	1732.5	-66.8	89.0	22.2	30.0	-7.8	369	15
3	1753.5	-66.7	89.3	22.6	30.0	-7.4	313	17

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 4, Channel Bandwidth: 5MHz

Mode		TX channel 19975, 20175, 20375						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	88.1	21.2	30.0	-8.8	137	146
2	1732.5	-66.8	88.3	21.5	30.0	-8.5	142	151
3	1752.5	-66.7	88.2	21.5	30.0	-8.5	139	140
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	89.4	22.5	30.0	-7.5	346	22
2	1732.5	-66.8	89.5	22.7	30.0	-7.3	326	18
3	1752.5	-66.7	89.3	22.6	30.0	-7.4	341	19

LTE Band 4, Channel Bandwidth: 10MHz

Mode		TX channel 20000, 20175, 20350						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	88.4	21.5	30.0	-8.5	146	155
2	1732.5	-66.8	88.2	21.4	30.0	-8.6	137	156
3	1750.0	-66.7	88.0	21.3	30.0	-8.7	139	135
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	89.6	22.7	30.0	-7.3	336	27
2	1732.5	-66.8	89.4	22.6	30.0	-7.4	322	21
3	1750.0	-66.7	89.2	22.5	30.0	-7.5	329	15

Remarks:

1. EIRP(dBm) = Raw Value(dBuV/m) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8
3. Margin value = EIRP – Limit value

LTE Band 4, Channel Bandwidth: 15MHz

Mode		TX channel 20025, 20175, 20325						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	88.1	21.2	30.0	-8.8	139	127
2	1732.5	-66.8	88.0	21.2	30.0	-8.8	144	135
3	1747.5	-66.7	88.1	21.4	30.0	-8.6	143	148
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	89.5	22.6	30.0	-7.4	338	18
2	1732.5	-66.8	89.3	22.5	30.0	-7.5	329	23
3	1747.5	-66.7	89.4	22.7	30.0	-7.3	318	26

LTE Band 4, Channel Bandwidth: 20MHz

Mode		TX channel 20050, 20175, 20300						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	88.0	21.1	30.0	-8.9	145	137
2	1732.5	-66.8	88.2	21.4	30.0	-8.6	137	149
3	1745.0	-66.7	88.3	21.6	30.0	-8.4	143	129
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	89.4	22.5	30.0	-7.5	329	17
2	1732.5	-66.8	89.4	22.6	30.0	-7.4	328	22
3	1745.0	-66.7	89.6	22.9	30.0	-7.1	341	28

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 1.4MHz

Mode		TX channel 131979, 132322, 132665						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	88.3	21.4	30.0	-8.6	141	166
2	1745.0	-66.7	87.9	21.2	30.0	-8.8	143	159
3	1779.3	-66.6	88.2	21.6	30.0	-8.4	140	165
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	88.9	22.0	30.0	-8.0	320	2
2	1745.0	-66.7	88.3	21.6	30.0	-8.4	298	21
3	1779.3	-66.6	88.7	22.1	30.0	-7.9	345	7

LTE Band 66, Channel Bandwidth: 3MHz

Mode		TX channel 131987, 132322, 132657						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	88.3	21.4	30.0	-8.6	144	162
2	1745.0	-66.7	88.0	21.3	30.0	-8.7	143	159
3	1778.5	-66.6	88.3	21.7	30.0	-8.3	138	165
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	89.0	22.1	30.0	-7.9	323	10
2	1745.0	-66.7	88.9	22.2	30.0	-7.8	299	13
3	1778.5	-66.6	88.9	22.3	30.0	-7.7	312	11

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 5MHz

Mode		TX channel 131997, 132322, 132647						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	88.2	21.3	30.0	-8.7	131	156
2	1745.0	-66.7	88.5	21.8	30.0	-8.2	132	149
3	1777.5	-66.6	88.4	21.8	30.0	-8.2	148	153
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	88.9	22.0	30.0	-8.0	301	16
2	1745.0	-66.7	89.1	22.4	30.0	-7.6	297	20
3	1777.5	-66.6	89.2	22.6	30.0	-7.4	311	23

LTE Band 66, Channel Bandwidth: 10MHz

Mode		TX channel 132022, 132322, 132622						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	88.4	21.5	30.0	-8.5	132	155
2	1745.0	-66.7	88.6	21.9	30.0	-8.1	142	157
3	1775.0	-66.6	88.3	21.7	30.0	-8.3	143	161
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	89.1	22.2	30.0	-7.8	312	12
2	1745.0	-66.7	89.2	22.5	30.0	-7.5	298	19
3	1775.0	-66.6	89.1	22.5	30.0	-7.5	303	20

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 15MHz

Mode		TX channel 132047, 132322, 132597						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	88.2	21.3	30.0	-8.7	153	147
2	1745.0	-66.7	88.4	21.7	30.0	-8.3	142	155
3	1772.5	-66.6	88.1	21.5	30.0	-8.5	146	160
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	88.9	22.0	30.0	-8.0	308	17
2	1745.0	-66.7	89.1	22.4	30.0	-7.6	301	15
3	1772.5	-66.6	88.9	22.3	30.0	-7.7	311	21

LTE Band 66, Channel Bandwidth: 20MHz

Mode		TX channel 132072, 132322, 132575						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	88.2	21.3	30.0	-8.7	137	149
2	1745.0	-66.7	88.3	21.6	30.0	-8.4	148	144
3	1770.0	-66.6	88.0	21.4	30.0	-8.6	152	159
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	89.0	22.1	30.0	-7.9	296	28
2	1745.0	-66.7	88.9	22.2	30.0	-7.8	284	34
3	1770.0	-66.6	88.7	22.1	30.0	-7.9	296	30

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

Modulation Type: 16QAM

LTE Band 4, Channel Bandwidth: 1.4MHz

Mode		TX channel 19957, 20175, 20393						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	88.0	21.1	30.0	-8.9	302	37
2	1732.5	-66.8	88.1	21.3	30.0	-8.7	322	30
3	1754.3	-66.7	87.6	20.9	30.0	-9.1	323	40
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	86.8	19.9	30.0	-10.1	149	141
2	1732.5	-66.8	86.8	20.0	30.0	-10.0	140	137
3	1754.3	-66.7	86.9	20.2	30.0	-9.8	143	151

LTE Band 4, Channel Bandwidth: 3MHz

Mode		TX channel 19965, 20175, 20385						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	86.8	19.9	30.0	-10.1	149	141
2	1732.5	-66.8	86.8	20.0	30.0	-10.0	140	137
3	1753.5	-66.7	86.9	20.2	30.0	-9.8	143	151
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	87.6	20.7	30.0	-9.3	345	19
2	1732.5	-66.8	87.9	21.1	30.0	-8.9	359	22
3	1753.5	-66.7	88.0	21.3	30.0	-8.7	326	14

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 4, Channel Bandwidth: 5MHz

Mode		TX channel 19975, 20175, 20375						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	87.0	20.1	30.0	-9.9	141	150
2	1732.5	-66.8	86.9	20.1	30.0	-9.9	145	143
3	1752.5	-66.7	87.0	20.3	30.0	-9.7	140	144
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	88.0	21.1	30.0	-8.9	344	29
2	1732.5	-66.8	88.2	21.4	30.0	-8.6	321	26
3	1752.5	-66.7	87.9	21.2	30.0	-8.8	344	26

LTE Band 4, Channel Bandwidth: 10MHz

Mode		TX channel 20000, 20175, 20350						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	87.1	20.2	30.0	-9.8	149	156
2	1732.5	-66.8	87.2	20.4	30.0	-9.6	140	149
3	1750.0	-66.7	86.9	20.2	30.0	-9.8	144	150
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	88.4	21.5	30.0	-8.5	329	20
2	1732.5	-66.8	88.1	21.3	30.0	-8.7	329	18
3	1750.0	-66.7	88.1	21.4	30.0	-8.6	321	28

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 4, Channel Bandwidth: 15MHz

Mode		TX channel 20025, 20175, 20325						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	86.9	20.0	30.0	-10.0	140	133
2	1732.5	-66.8	86.7	19.9	30.0	-10.1	146	139
3	1747.5	-66.7	87.0	20.3	30.0	-9.7	139	141
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	88.3	21.4	30.0	-8.6	332	20
2	1732.5	-66.8	88.1	21.3	30.0	-8.7	322	26
3	1747.5	-66.7	88.4	21.7	30.0	-8.3	321	25

LTE Band 4, Channel Bandwidth: 20MHz

Mode		TX channel 20050, 20175, 20300						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	86.8	19.9	30.0	-10.1	149	140
2	1732.5	-66.8	87.1	20.3	30.0	-9.7	144	137
3	1745.0	-66.7	86.9	20.2	30.0	-9.8	152	146
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	88.2	21.3	30.0	-8.7	331	20
2	1732.5	-66.8	88.4	21.6	30.0	-8.4	326	17
3	1745.0	-66.7	88.5	21.8	30.0	-8.2	339	27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 1.4MHz

Mode		TX channel 131979, 132322, 132665						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	87.2	20.3	30.0	-9.7	142	160
2	1745.0	-66.7	87.1	20.4	30.0	-9.6	146	151
3	1779.3	-66.6	87.3	20.7	30.0	-9.3	144	163
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1710.7	-66.9	88.1	21.2	30.0	-8.8	322	8
2	1745.0	-66.7	87.8	21.1	30.0	-8.9	288	32
3	1779.3	-66.6	87.9	21.3	30.0	-8.7	335	11

LTE Band 66, Channel Bandwidth: 3MHz

Mode		TX channel 131987, 132322, 132657						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	87.2	20.3	30.0	-9.7	149	159
2	1745.0	-66.7	87.1	20.4	30.0	-9.6	144	162
3	1778.5	-66.6	87.4	20.8	30.0	-9.2	141	159
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1711.5	-66.9	88.3	21.4	30.0	-8.6	321	16
2	1745.0	-66.7	88.0	21.3	30.0	-8.7	293	14
3	1778.5	-66.6	87.9	21.3	30.0	-8.7	308	17

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 5MHz

Mode		TX channel 131997, 132322, 132647						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	87.4	20.5	30.0	-9.5	129	155
2	1745.0	-66.7	87.3	20.6	30.0	-9.4	129	144
3	1777.5	-66.6	87.3	20.7	30.0	-9.3	147	157
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1712.5	-66.9	87.8	20.9	30.0	-9.1	305	19
2	1745.0	-66.7	88.0	21.3	30.0	-8.7	299	23
3	1777.5	-66.6	88.1	21.5	30.0	-8.5	309	24

LTE Band 66, Channel Bandwidth: 10MHz

Mode		TX channel 132022, 132322, 132622						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	87.4	20.5	30.0	-9.5	139	149
2	1745.0	-66.7	87.5	20.8	30.0	-9.2	139	155
3	1775.0	-66.6	87.5	20.9	30.0	-9.1	144	159
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1715.0	-66.9	88.2	21.3	30.0	-8.7	319	16
2	1745.0	-66.7	88.3	21.6	30.0	-8.4	285	39
3	1775.0	-66.6	88.1	21.5	30.0	-8.5	306	19

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

LTE Band 66, Channel Bandwidth: 15MHz

Mode		TX channel 132047, 132322, 132597						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	87.1	20.2	30.0	-9.8	155	149
2	1745.0	-66.7	87.2	20.5	30.0	-9.5	144	159
3	1772.5	-66.6	87.5	20.9	30.0	-9.1	148	152
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1717.5	-66.9	87.9	21.0	30.0	-9.0	309	21
2	1745.0	-66.7	88.1	21.4	30.0	-8.6	310	19
3	1772.5	-66.6	87.8	21.2	30.0	-8.8	312	28

LTE Band 66, Channel Bandwidth: 20MHz

Mode		TX channel 132072, 132322, 132575						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	87.4	20.5	30.0	-9.5	139	150
2	1745.0	-66.7	87.5	20.8	30.0	-9.2	149	146
3	1770.0	-66.6	88.0	21.4	30.0	-8.6	149	155
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1720.0	-66.9	88.1	21.2	30.0	-8.8	298	29
2	1745.0	-66.7	87.9	21.2	30.0	-8.8	289	32
3	1770.0	-66.6	87.6	21.0	30.0	-9.0	299	32

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$

ERP Power (dBm)
Modulation Type: QPSK

LTE Band 12, Channel Bandwidth: 1.4MHz

Mode		TX channel 23017, 23095, 23173						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	699.7	-68.0	86.5	18.5	34.8	-16.3	116	203
2	707.5	-67.9	88.2	20.3	34.8	-14.5	121	209
3	715.3	-67.8	87.8	20.1	34.8	-14.7	109	214
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	699.7	-68.0	81.9	13.9	34.8	-20.9	106	58
2	707.5	-67.9	82.0	14.1	34.8	-20.7	116	52
3	715.3	-67.8	81.8	14.0	34.8	-20.8	113	67

LTE Band 12, Channel Bandwidth: 3MHz

Mode		TX channel 23025, 23095, 23165						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	700.5	-68.0	87.2	19.3	34.8	-15.5	118	202
2	707.5	-67.9	87.4	19.5	34.8	-15.3	122	204
3	714.5	-67.9	87.9	20.0	34.8	-14.8	116	210
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	700.5	-68.0	82.0	14.1	34.8	-20.7	113	50
2	707.5	-67.9	81.9	14.0	34.8	-20.8	116	60
3	714.5	-67.9	81.7	13.8	34.8	-21.0	106	62

Remarks:

1. $ERP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8 - 2.15$
3. $\text{Margin value} = ERP - \text{Limit value}$

LTE Band 12, Channel Bandwidth: 5MHz

Mode		TX channel 23035, 23095, 23155						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	701.5	-68.0	87.1	19.1	34.8	-15.7	117	202
2	707.5	-67.9	87.2	19.3	34.8	-15.5	116	198
3	713.5	-67.9	87.9	20.0	34.8	-14.8	110	208
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	701.5	-68.0	82.0	14.0	34.8	-20.8	108	51
2	707.5	-67.9	82.1	14.2	34.8	-20.6	113	66
3	713.5	-67.9	81.7	13.8	34.8	-21.0	108	62

LTE Band 12, Channel Bandwidth: 10MHz

Mode		TX channel 23060, 23095, 23130						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	704.0	-67.9	87.1	19.2	34.8	-15.6	113	208
2	707.5	-67.9	87.1	19.2	34.8	-15.6	117	204
3	711.0	-67.9	87.5	19.6	34.8	-15.2	119	201
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	704.0	-67.9	81.7	13.8	34.8	-21.0	110	52
2	707.5	-67.9	81.9	14.0	34.8	-20.8	116	57
3	711.0	-67.9	81.9	14.0	34.8	-20.8	108	63

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 13, Channel Bandwidth: 5MHz

Mode		TX channel 23205, 23230, 23255						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	779.5	-66.4	89.5	23.1	34.8	-11.7	101	198
2	782.0	-66.4	89.6	23.2	34.8	-11.6	100	204
3	784.5	-66.4	89.7	23.3	34.8	-11.5	100	192
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	779.5	-66.4	84.3	17.9	34.8	-16.9	110	75
2	782.0	-66.4	84.2	17.8	34.8	-17.0	110	70
3	784.5	-66.4	84.3	17.9	34.8	-16.9	113	72

LTE Band 13, Channel Bandwidth: 10MHz

Mode		TX channel 23230						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	782.0	-66.4	89.9	23.5	34.8	-11.3	104	204
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	782.0	-66.4	83.9	17.5	34.8	-17.3	107	75

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 71, Channel Bandwidth: 5MHz

Mode		TX channel 133147, 133297, 133447						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	665.5	-68.3	89.3	21.0	34.8	-13.8	112	205
2	680.5	-68.2	90.5	22.2	34.8	-12.6	116	206
3	695.5	-68.1	90.6	22.5	34.8	-12.3	113	212
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	665.5	-68.3	82.2	13.9	34.8	-20.9	102	38
2	680.5	-68.2	82.7	14.4	34.8	-20.4	116	206
3	695.5	-68.1	82.7	14.6	34.8	-20.2	100	30

LTE Band 71, Channel Bandwidth: 10MHz

Mode		TX channel 133172, 133297, 133422						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	668.0	-68.3	89.4	21.1	34.8	-13.7	119	212
2	680.5	-68.2	90.5	22.2	34.8	-12.6	129	209
3	693.0	-68.1	90.1	22.0	34.8	-12.8	114	211
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	668.0	-68.3	81.9	13.6	34.8	-21.2	100	27
2	680.5	-68.2	82.5	14.2	34.8	-20.6	103	32
3	693.0	-68.1	82.8	14.7	34.8	-20.1	107	26

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 71, Channel Bandwidth: 15MHz

Mode		TX channel 133197, 133297, 133397						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	670.5	-68.3	89.4	21.1	34.8	-13.7	118	203
2	680.5	-68.2	90.0	21.7	34.8	-13.1	119	207
3	690.5	-68.1	90.4	22.3	34.8	-12.5	119	210
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	670.5	-68.3	81.9	13.6	34.8	-21.2	100	32
2	680.5	-68.2	82.5	14.2	34.8	-20.6	109	37
3	690.5	-68.1	82.2	14.1	34.8	-20.7	103	30

LTE Band 71, Channel Bandwidth: 20MHz

Mode		TX channel 133222, 133297, 133372						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	673.0	-68.3	89.5	21.2	34.8	-13.6	120	211
2	680.5	-68.2	90.2	22.0	34.8	-12.8	123	201
3	688.0	-68.1	90.2	22.1	34.8	-12.7	115	213
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	673.0	-68.3	82.5	14.2	34.8	-20.6	106	37
2	680.5	-68.2	82.5	14.2	34.8	-20.6	111	32
3	688.0	-68.1	82.4	14.3	34.8	-20.5	100	29

Remarks:

1. $ERP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8 - 2.15$
3. $\text{Margin value} = ERP - \text{Limit value}$

Modulation Type: 16QAM

LTE Band 12, Channel Bandwidth: 1.4MHz

Mode		TX channel 23017, 23095, 23173						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	699.7	-68.0	86.0	18.0	34.8	-16.8	116	203
2	707.5	-67.9	87.2	19.3	34.8	-15.5	121	209
3	715.3	-67.8	86.8	19.1	34.8	-15.7	109	214
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	699.7	-68.0	80.9	12.9	34.8	-21.9	106	58
2	707.5	-67.9	81.0	13.1	34.8	-21.7	116	52
3	715.3	-67.8	80.8	13.0	34.8	-21.8	113	67

LTE Band 12, Channel Bandwidth: 3MHz

Mode		TX channel 23025, 23095, 23165						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	700.5	-68.0	86.2	18.3	34.8	-16.5	118	202
2	707.5	-67.9	86.4	18.5	34.8	-16.3	122	204
3	714.5	-67.9	86.9	19.0	34.8	-15.8	116	210
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	700.5	-68.0	81.0	13.1	34.8	-21.7	113	50
2	707.5	-67.9	80.9	13.0	34.8	-21.8	116	60
3	714.5	-67.9	80.7	12.8	34.8	-22.0	106	62

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 12, Channel Bandwidth: 5MHz

Mode		TX channel 23035, 23095, 23155						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	701.5	-68.0	86.1	18.1	34.8	-16.7	117	202
2	707.5	-67.9	86.2	18.3	34.8	-16.5	116	198
3	713.5	-67.9	86.9	19.0	34.8	-15.8	110	208
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	701.5	-68.0	81.0	13.0	34.8	-21.8	108	51
2	707.5	-67.9	81.4	13.5	34.8	-21.3	113	66
3	713.5	-67.9	81.1	13.2	34.8	-21.6	108	62

LTE Band 12, Channel Bandwidth: 10MHz

Mode		TX channel 23060, 23095, 23130						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	704.0	-67.9	86.1	18.2	34.8	-16.6	113	208
2	707.5	-67.9	86.1	18.2	34.8	-16.6	117	204
3	711.0	-67.9	86.5	18.6	34.8	-16.2	119	201
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	704.0	-67.9	81.0	13.1	34.8	-21.7	110	52
2	707.5	-67.9	80.9	13.0	34.8	-21.8	116	57
3	711.0	-67.9	80.9	13.0	34.8	-21.8	108	63

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 13, Channel Bandwidth: 5MHz

Mode		TX channel 23205, 23230, 23255						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	779.5	-66.4	88.9	22.5	34.8	-12.3	101	202
2	782.0	-66.4	88.7	22.3	34.8	-12.5	100	205
3	784.5	-66.4	88.8	22.4	34.8	-12.4	100	198
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	779.5	-66.4	83.1	16.7	34.8	-18.1	112	71
2	782.0	-66.4	83.1	16.7	34.8	-18.1	110	75
3	784.5	-66.4	83.4	17.0	34.8	-17.8	109	75

LTE Band 13, Channel Bandwidth: 10MHz

Mode		TX channel 23230						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	782.0	-66.4	88.9	22.5	34.8	-12.3	104	203
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	782.0	-66.4	83.2	16.8	34.8	-18.0	109	72

Remarks:

1. $ERP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8 - 2.15$
3. $\text{Margin value} = ERP - \text{Limit value}$

LTE Band 71, Channel Bandwidth: 5MHz

Mode		TX channel 133147, 133297, 133447						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	665.5	-68.3	88.5	20.2	34.8	-14.6	103	211
2	680.5	-68.2	89.8	21.5	34.8	-13.3	115	208
3	695.5	-68.1	89.7	21.6	34.8	-13.2	103	219
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	665.5	-68.3	81.5	13.2	34.8	-21.6	103	30
2	680.5	-68.2	82.0	13.7	34.8	-21.1	110	213
3	695.5	-68.1	81.8	13.7	34.8	-21.1	100	21

LTE Band 71, Channel Bandwidth: 10MHz

Mode		TX channel 133172, 133297, 133422						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	668.0	-68.3	88.8	20.5	34.8	-14.3	120	203
2	680.5	-68.2	89.8	21.5	34.8	-13.3	122	200
3	693.0	-68.1	89.4	21.3	34.8	-13.5	120	213
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	668.0	-68.3	81.3	13.0	34.8	-21.8	100	31
2	680.5	-68.2	81.8	13.5	34.8	-21.3	109	27
3	693.0	-68.1	81.7	13.6	34.8	-21.2	100	29

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

LTE Band 71, Channel Bandwidth: 15MHz

Mode		TX channel 133197, 133297, 133397						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	670.5	-68.3	88.8	20.4	34.8	-14.4	119	210
2	680.5	-68.2	89.2	21.0	34.8	-13.8	120	213
3	690.5	-68.1	89.7	21.6	34.8	-13.2	121	209
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	670.5	-68.3	81.2	12.9	34.8	-21.9	100	39
2	680.5	-68.2	81.5	13.2	34.8	-21.6	103	30
3	690.5	-68.1	81.3	13.2	34.8	-21.6	100	41

LTE Band 71, Channel Bandwidth: 20MHz

Mode		TX channel 133222, 133297, 133372						
Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	673.0	-68.3	88.5	20.2	34.8	-14.6	125	208
2	680.5	-68.2	89.5	21.2	34.8	-13.6	129	211
3	688.0	-68.1	89.3	21.2	34.8	-13.6	116	219
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	673.0	-68.3	81.9	13.6	34.8	-21.2	103	32
2	680.5	-68.2	81.8	13.5	34.8	-21.3	116	38
3	688.0	-68.1	81.7	13.6	34.8	-21.2	103	30

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

For WCDMA Band 4, LTE Band 4, 66

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

For LTE Band 12, 71

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 13

According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

According to FCC 27.53(f) for operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5
$$\text{EIRP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8; \text{ where } D \text{ is the measurement distance (in the far field region) in m.}$$
$$\text{ERP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8 - 2.15; \text{ where } D \text{ is the measurement distance (in the far field region) in m.}$$

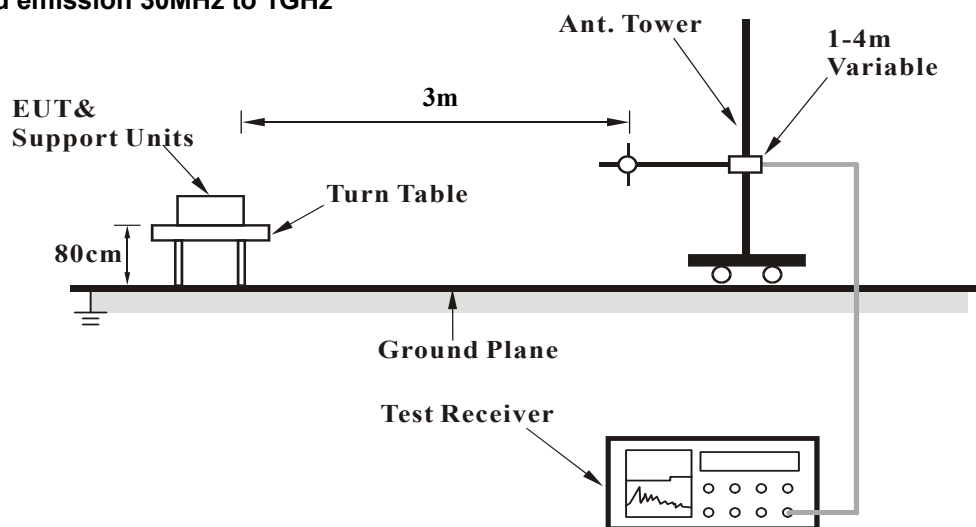
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.2.3 Deviation from Test Standard

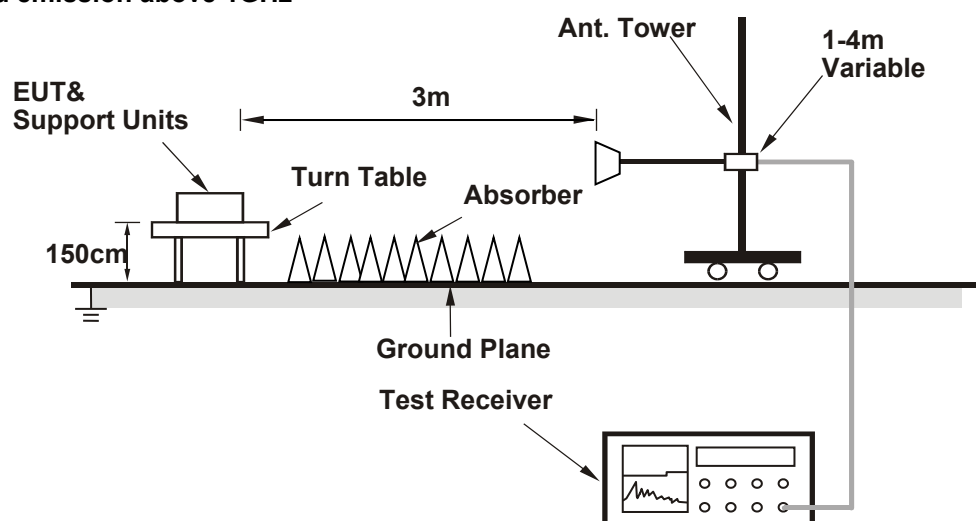
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

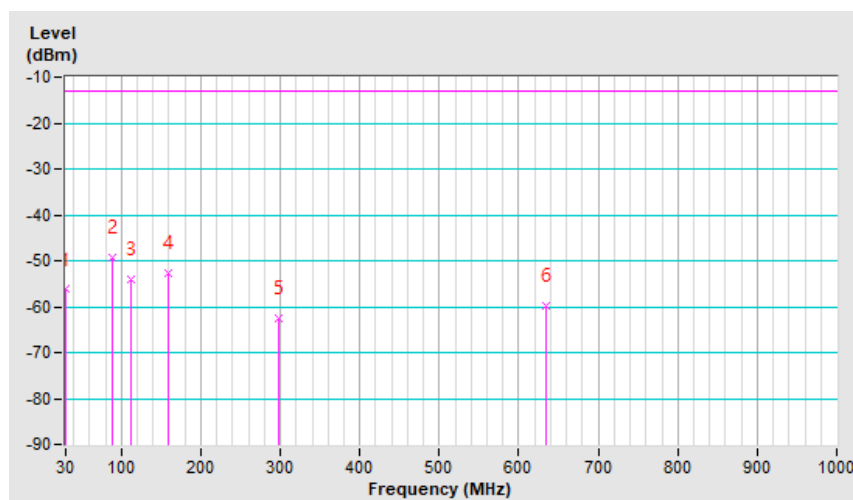
Below 1GHz
WCDMA Band 4

Mode	TX channel 1513 (1752.6MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-105.8	49.5	-56.3	-13.0	-43.3	150	83
2	89.17	-109.8	60.6	-49.2	-13.0	-36.2	150	11
3	112.45	-107.0	52.9	-54.1	-13.0	-41.1	100	189
4	159.98	-103.7	50.9	-52.8	-13.0	-39.8	150	96
5	298.69	-102.4	39.7	-62.7	-13.0	-49.7	100	257
6	633.34	-95.5	35.7	-59.8	-13.0	-46.8	100	134

Remarks:

1. $EIRP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8$
3. $\text{Margin value} = EIRP - \text{Limit value}$
4. The other EIRP levels were very low against the limit.

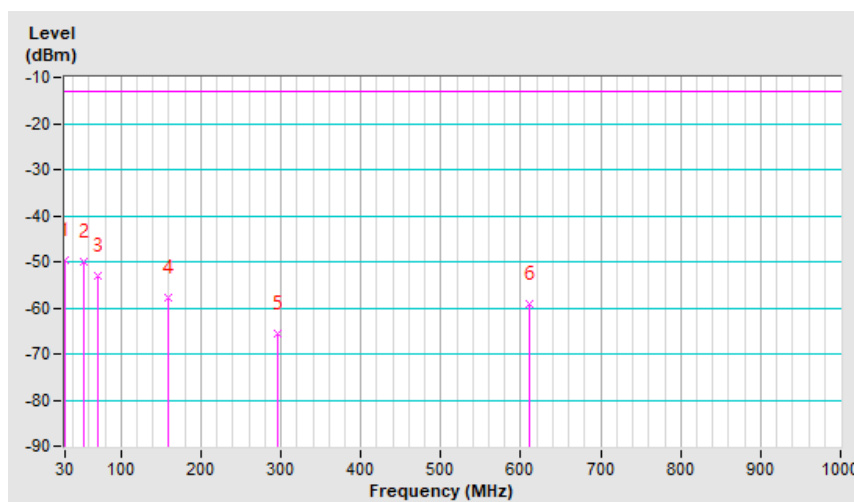


Mode	TX channel 1513 (1752.6MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-105.8	56.0	-49.8	-13.0	-36.8	150	45
2	53.28	-104.5	54.5	-50.0	-13.0	-37.0	100	80
3	70.74	-106.4	53.3	-53.1	-13.0	-40.1	100	349
4	159.01	-103.7	45.8	-57.9	-13.0	-44.9	100	182
5	295.78	-102.5	36.9	-65.6	-13.0	-52.6	125	17
6	610.06	-95.8	36.6	-59.2	-13.0	-46.2	200	86

Remarks:

1. $EIRP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8$
3. $\text{Margin value} = EIRP - \text{Limit value}$
4. The other EIRP levels were very low against the limit.



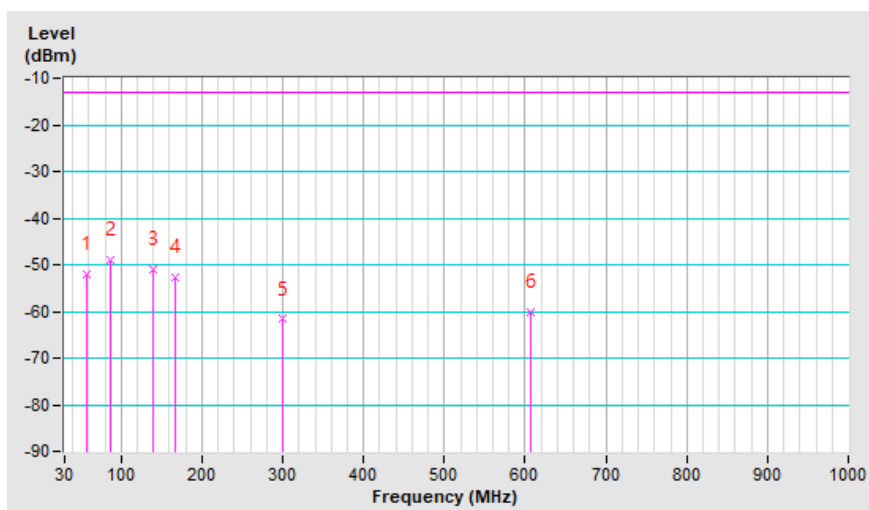
LTE Band 4, Channel Bandwidth: 5MHz

Mode	TX channel 20175 (1732.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	58.13	-104.7	52.6	-52.1	-13.0	-39.1	150	313
2	87.23	-109.8	60.7	-49.1	-13.0	-36.1	100	247
3	138.64	-104.5	53.4	-51.1	-13.0	-38.1	150	97
4	167.74	-104.1	51.3	-52.8	-13.0	-39.8	150	282
5	299.66	-102.4	40.7	-61.7	-13.0	-48.7	150	97
6	607.15	-96.0	35.8	-60.2	-13.0	-47.2	100	217

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

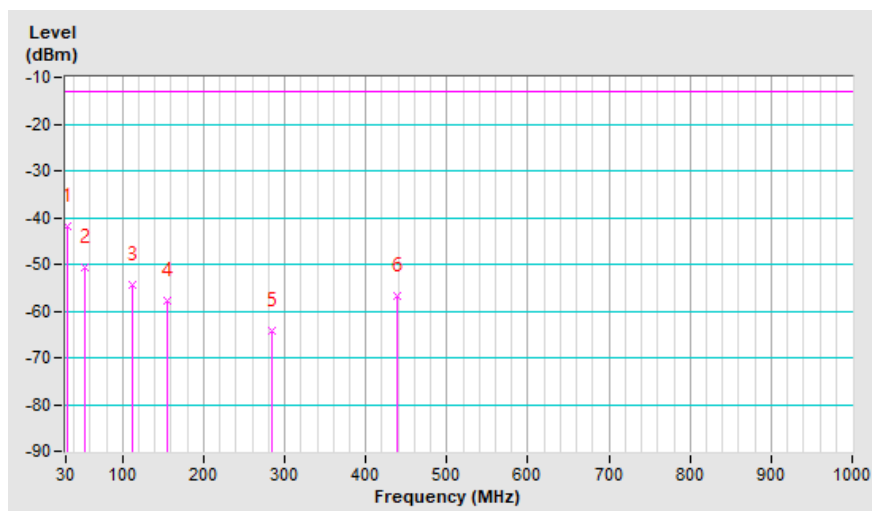


Mode	TX channel 20175 (1732.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	32.91	-106.0	64.0	-42.0	-13.0	-29.0	125	355
2	53.28	-104.5	53.9	-50.6	-13.0	-37.6	100	16
3	111.48	-107.2	52.8	-54.4	-13.0	-41.4	150	136
4	156.10	-103.8	46.0	-57.8	-13.0	-44.8	150	189
5	285.11	-102.6	38.3	-64.3	-13.0	-51.3	100	346
6	439.34	-99.2	42.5	-56.7	-13.0	-43.7	151	63

Remarks:

1. $EIRP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8$
3. $\text{Margin value} = EIRP - \text{Limit value}$
4. The other EIRP levels were very low against the limit.



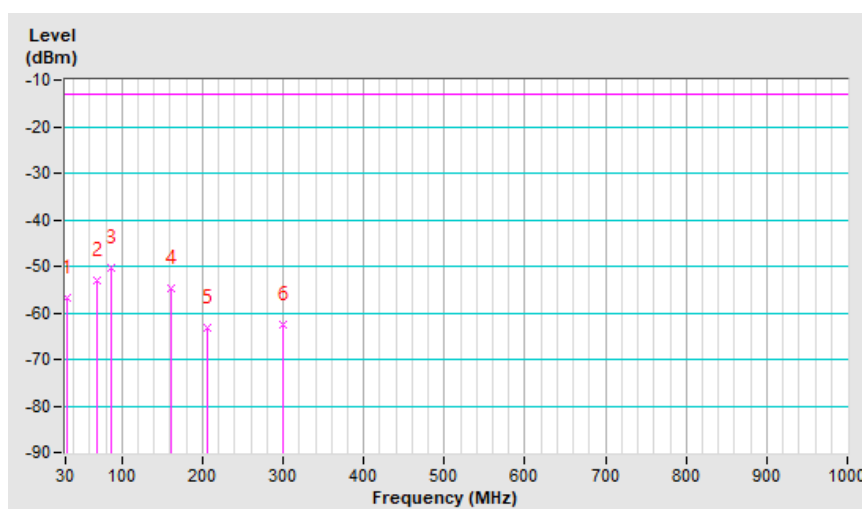
LTE Band 12, Channel Bandwidth: 1.4MHz

Mode	TX channel 23017 (699.7MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	32.91	-108.2	51.3	-56.9	-13.0	-43.9	100	88
2	68.80	-108.3	55.4	-52.9	-13.0	-39.9	100	286
3	86.26	-111.9	61.4	-50.5	-13.0	-37.5	100	282
4	160.95	-106.0	51.4	-54.6	-13.0	-41.6	150	104
5	206.54	-108.9	45.8	-63.1	-13.0	-50.1	100	82
6	299.66	-104.6	42.0	-62.6	-13.0	-49.6	125	265

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

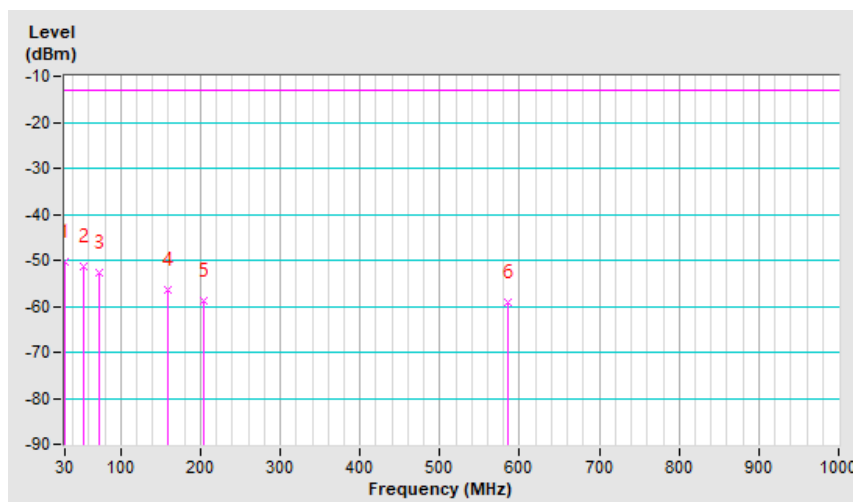


Mode	TX channel 23017 (699.7MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-108.0	57.8	-50.2	-13.0	-37.2	100	350
2	54.25	-106.8	55.4	-51.4	-13.0	-38.4	100	7
3	72.68	-108.9	56.1	-52.8	-13.0	-39.8	149	6
4	159.98	-105.8	49.2	-56.6	-13.0	-43.6	125	215
5	203.63	-108.9	50.0	-58.9	-13.0	-45.9	100	158
6	584.84	-98.7	39.7	-59.0	-13.0	-46.0	149	238

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



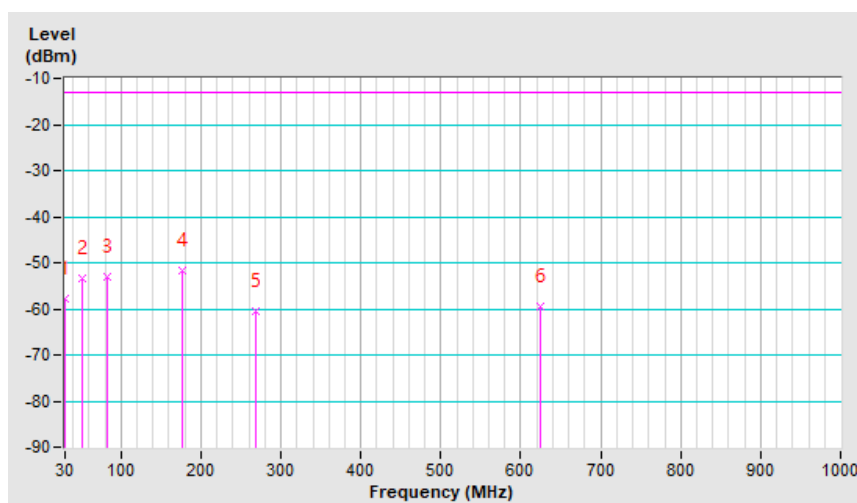
LTE Band 13, Channel Bandwidth: 10MHz

Mode	TX channel 23230 (782.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-108.0	50.2	-57.7	-13.0	-44.7	100	12
2	51.34	-106.7	53.3	-53.4	-13.0	-40.4	100	94
3	83.35	-111.6	58.5	-53.1	-13.0	-40.1	125	44
4	177.44	-107.2	55.5	-51.8	-13.0	-38.8	100	259
5	267.65	-105.6	45.2	-60.4	-13.0	-47.4	200	94
6	623.64	-97.9	38.4	-59.5	-13.0	-46.5	125	6

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

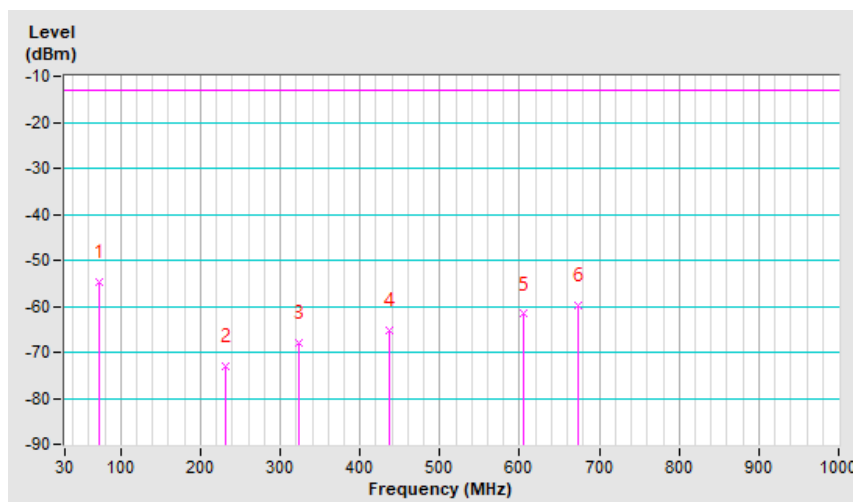


Mode	TX channel 23230 (782.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	73.65	-109.2	54.4	-54.9	-13.0	-41.9	100	219
2	230.79	-108.2	35.2	-73.0	-13.0	-60.0	100	320
3	322.94	-103.9	35.8	-68.1	-13.0	-55.1	100	106
4	437.40	-101.4	36.1	-65.3	-13.0	-52.3	100	213
5	604.24	-98.2	36.5	-61.7	-13.0	-48.7	100	309
6	674.08	-97.1	37.2	-59.9	-13.0	-46.9	100	211

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



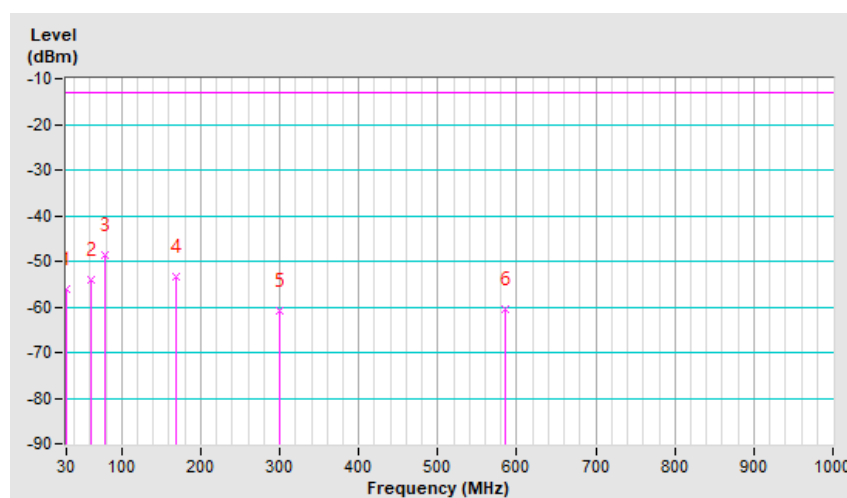
LTE Band 66, Channel Bandwidth: 1.4MHz

Mode	TX channel 132665 (1779.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-105.8	49.8	-56.0	-13.0	-43.0	125	176
2	61.04	-105.0	51.0	-54.0	-13.0	-41.0	150	233
3	78.50	-108.3	59.6	-48.7	-13.0	-35.7	200	69
4	169.68	-104.3	50.9	-53.4	-13.0	-40.4	150	271
5	299.66	-102.4	41.4	-61.0	-13.0	-48.0	100	255
6	584.84	-96.5	36.1	-60.4	-13.0	-47.4	100	142

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

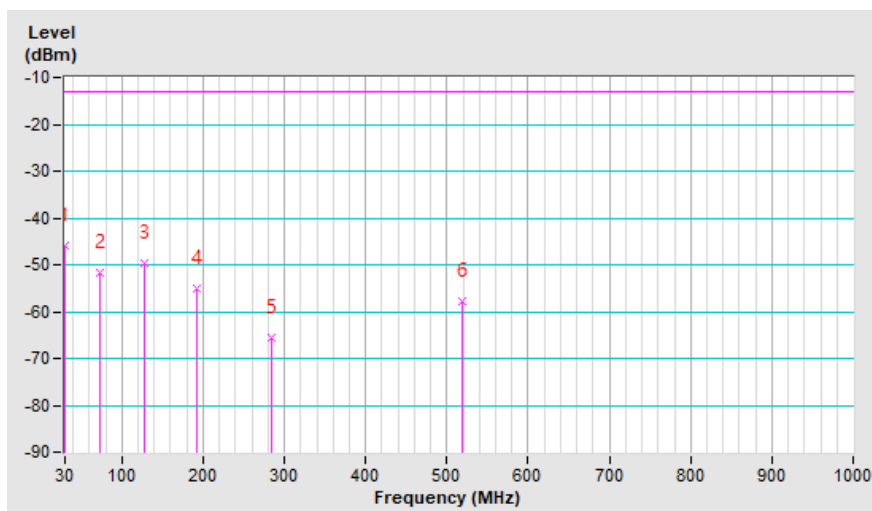


Mode	TX channel 132665 (1779.3MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.97	-106.3	60.3	-46.0	-13.0	-33.0	125	195
2	73.65	-107.1	55.4	-51.7	-13.0	-38.7	100	211
3	127.97	-105.6	56.0	-49.6	-13.0	-36.6	100	231
4	192.96	-106.8	51.6	-55.2	-13.0	-42.2	149	152
5	285.11	-102.6	37.1	-65.5	-13.0	-52.5	149	289
6	519.85	-98.0	40.2	-57.8	-13.0	-44.8	200	157

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



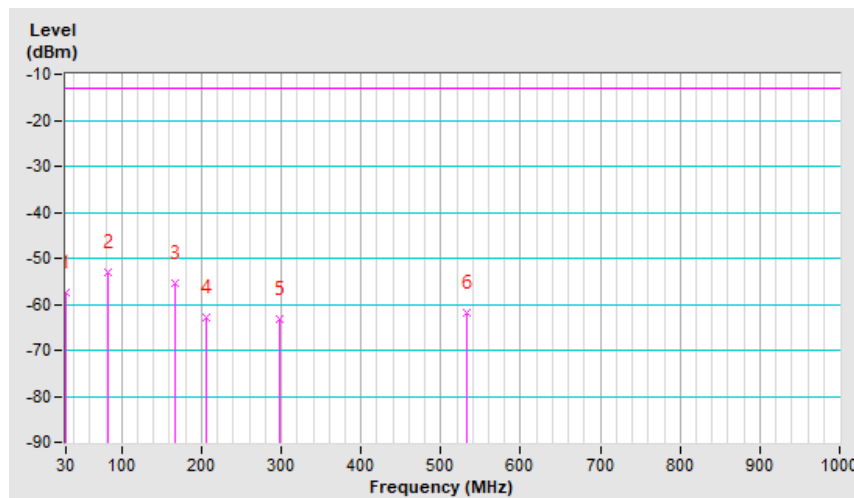
LTE Band 71, Channel Bandwidth: 20MHz

Mode	TX channel 133297 (680.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-108.0	50.4	-57.6	-13.0	-44.6	100	12
2	83.35	-111.6	58.5	-53.1	-13.0	-40.1	100	44
3	167.74	-106.2	51.0	-55.3	-13.0	-42.3	125	283
4	205.57	-108.9	45.9	-63.0	-13.0	-50.0	125	97
5	298.69	-104.6	41.3	-63.3	-13.0	-50.3	100	257
6	532.46	-99.8	37.9	-61.9	-13.0	-48.9	200	181

Remarks:

1. $ERP(dBm) = \text{Raw Value}(dBuV/m) + \text{Correction Factor}(dB/m)$
2. $\text{Correction Factor}(dB/m) = \text{Antenna Factor}(dB/m) + \text{Cable Factor}(dB) - \text{Pre-Amplifier Factor}(dB) + 20\log(D) - 104.8 - 2.15$
3. $\text{Margin value} = ERP - \text{Limit value}$
4. The other ERP levels were very low against the limit.

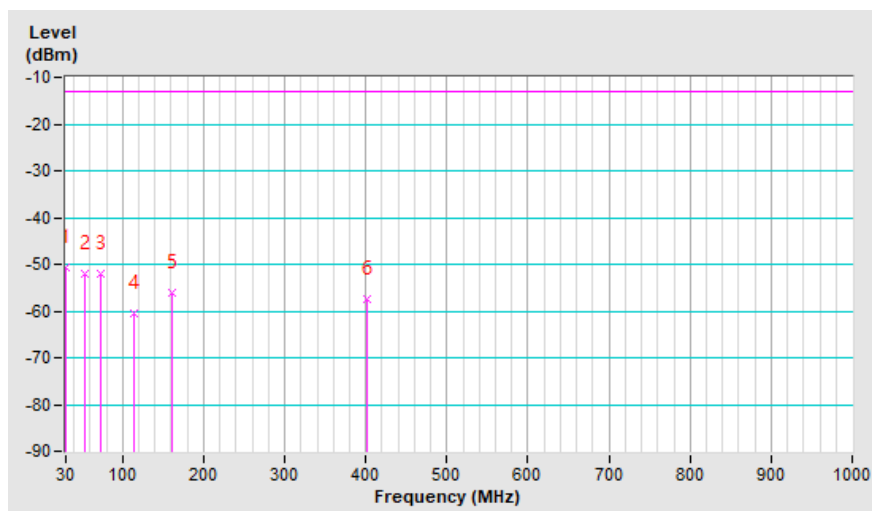


Mode	TX channel 133297 (680.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	30.00	-108.0	57.2	-50.8	-13.0	-37.8	100	282
2	54.25	-106.8	54.8	-52.0	-13.0	-39.0	100	10
3	72.68	-108.9	57.0	-51.9	-13.0	-38.9	100	2
4	113.42	-109.2	48.8	-60.4	-13.0	-47.4	100	186
5	160.95	-106.0	49.9	-56.1	-13.0	-43.1	100	220
6	401.51	-102.5	45.1	-57.4	-13.0	-44.4	100	15

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



Above 1GHz
WCDMA Band 4

Mode	TX channel 1312 (1712.4MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3424.80	-97.1	54.4	-42.7	-13.0	-29.7	244	174
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3424.80	-97.1	53.7	-43.4	-13.0	-30.4	330	185

Mode	TX channel 1413 (1732.6MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.20	-96.8	54.7	-42.1	-13.0	-29.1	238	162
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.20	-96.8	53.3	-43.5	-13.0	-30.5	322	179

Mode	TX channel 1513 (1752.6MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3505.20	-96.7	54.7	-42.0	-13.0	-29.0	241	159
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3505.20	-96.7	53.9	-42.8	-13.0	-29.8	329	189

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 4, Channel Bandwidth: 1.4MHz

Mode	TX channel 19957 (1710.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3421.40	-97.1	44.6	-52.5	-13.0	-39.5	155	192
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3421.40	-97.1	45.0	-52.1	-13.0	-39.1	163	178

Mode	TX channel 20175 (1732.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	44.8	-52.0	-13.0	-39.0	149	103
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	45.2	-51.6	-13.0	-38.6	166	183

Mode	TX channel 20393 (1754.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3508.60	-96.6	44.7	-51.9	-13.0	-38.9	153	106
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3508.60	-96.6	45.1	-51.5	-13.0	-38.5	162	191

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 4, Channel Bandwidth: 5MHz

Mode	TX channel 19975 (1712.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3425.00	-97.1	44.7	-52.4	-13.0	-39.4	124	159
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3425.00	-97.1	45.0	-52.1	-13.0	-39.1	215	85

Mode	TX channel 20175 (1732.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	44.8	-52.0	-13.0	-39.0	151	89
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	45.2	-51.6	-13.0	-38.6	166	183

Mode	TX channel 20375 (1752.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3505.00	-96.7	44.6	-52.1	-13.0	-39.1	138	162
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3505.00	-96.7	45.3	-51.4	-13.0	-38.4	237	98

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 4, Channel Bandwidth: 20MHz

Mode	TX channel 20050 (1720.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3440.00	-97.0	44.5	-52.5	-13.0	-39.5	149	102
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3440.00	-97.0	44.9	-52.1	-13.0	-39.1	161	179

Mode	TX channel 20175 (1732.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	44.7	-52.1	-13.0	-39.1	152	91
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3465.00	-96.8	45.1	-51.7	-13.0	-38.7	159	188

Mode	TX channel 20300 (1745.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	44.5	-52.2	-13.0	-39.2	153	81
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	44.9	-51.8	-13.0	-38.8	155	179

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 12, Channel Bandwidth: 1.4MHz

Mode	TX channel 23017 (699.7MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1399.40	-102.2	47.5	-54.7	-13.0	-41.7	159	129
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1399.40	-102.2	47.0	-55.2	-13.0	-42.2	162	237

Mode	TX channel 23095 (707.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	47.2	-55.0	-13.0	-42.0	149	117
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	46.9	-55.3	-13.0	-42.3	166	240

Mode	TX channel 23173 (715.3MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1430.60	-102.4	47.1	-55.3	-13.0	-42.3	152	108
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1430.60	-102.4	46.7	-55.7	-13.0	-42.7	162	223

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth: 5MHz

Mode	TX channel 23035 (701.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1403.00	-102.2	46.9	-55.3	-13.0	-42.3	155	116
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1403.00	-102.2	46.4	-55.8	-13.0	-42.8	166	231

Mode	TX channel 23095 (707.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	47.1	-55.1	-13.0	-42.1	149	120
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	46.5	-55.7	-13.0	-42.7	162	230

Mode	TX channel 23155 (713.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1427.00	-102.4	47.0	-55.4	-13.0	-42.4	146	119
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1427.00	-102.4	46.7	-55.7	-13.0	-42.7	159	227

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth: 10MHz

Mode	TX channel 23060 (704.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1408.00	-102.2	46.8	-55.4	-13.0	-42.4	146	129
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1408.00	-102.2	46.4	-55.8	-13.0	-42.8	162	219

Mode	TX channel 23095 (707.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	47.0	-55.2	-13.0	-42.2	159	116
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1415.00	-102.2	46.6	-55.6	-13.0	-42.6	166	237

Mode	TX channel 23130 (711.0 MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1422.00	-102.3	46.8	-55.5	-13.0	-42.5	155	120
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1422.00	-102.3	46.3	-56.0	-13.0	-43.0	162	210

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 13, Channel Bandwidth: 5MHz

Mode	TX channel 23205 (779.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1559.00	-100.9	46.5	-54.4	-40.0	-14.4	159	103
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1559.00	-100.9	46.1	-54.8	-40.0	-14.8	165	200

Mode	TX channel 23230 (782.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1564.00	-101.0	46.7	-54.3	-40.0	-14.3	155	112
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1564.00	-101.0	46.2	-54.8	-40.0	-14.8	163	211

Mode	TX channel 23255 (784.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1569.00	-101.0	46.7	-54.3	-40.0	-14.3	155	113
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1569.00	-101.0	46.4	-54.6	-40.0	-14.6	159	203

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 13, Channel Bandwidth: 10MHz

Mode	TX channel 23230 (782.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1564.00	-101.0	46.8	-54.2	-40.0	-14.2	149	120
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1564.00	-101.0	46.1	-54.9	-40.0	-14.9	165	241

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 66, Channel Bandwidth: 1.4MHz

Mode	TX channel 131979 (1710.7MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3421.40	-97.1	46.2	-50.9	-13.0	-37.9	159	108
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3421.40	-97.1	46.8	-50.3	-13.0	-37.3	171	211

Mode	TX channel 132322 (1745.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	46.4	-50.3	-13.0	-37.3	161	122
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	46.7	-50.0	-13.0	-37.0	159	241

Mode	TX channel 132665 (1779.3MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3558.60	-96.3	46.3	-50.0	-13.0	-37.0	148	125
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3558.60	-96.3	46.9	-49.4	-13.0	-36.4	159	231

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 66, Channel Bandwidth: 5MHz

Mode	TX channel 131997 (1712.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3425.00	-97.1	46.4	-50.7	-13.0	-37.7	151	130
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3425.00	-97.1	46.8	-50.3	-13.0	-37.3	166	224

Mode	TX channel 132322 (1745.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	46.5	-50.2	-13.0	-37.2	146	89
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	46.9	-49.8	-13.0	-36.8	159	233

Mode	TX channel 132647 (1777.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3555.00	-96.3	46.3	-50.0	-13.0	-37.0	144	121
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3555.00	-96.3	46.8	-49.5	-13.0	-36.5	162	213

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 66, Channel Bandwidth: 20MHz

Mode	TX channel 132072 (1720.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3440.00	-97.0	46.1	-50.9	-13.0	-37.9	155	122
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3440.00	-97.0	46.5	-50.5	-13.0	-37.5	159	217

Mode	TX channel 132322 (1745.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	46.5	-50.2	-13.0	-37.2	157	132
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3490.00	-96.7	47.1	-49.6	-13.0	-36.6	167	207

Mode	TX channel 132572 (1770.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3540.00	-96.4	46.3	-50.1	-13.0	-37.1	148	124
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	3540.00	-96.4	46.8	-49.6	-13.0	-36.6	162	215

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 71, Channel Bandwidth: 5MHz

Mode	TX channel 133147 (665.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1331.00	-102.6	47.1	-55.5	-13.0	-42.5	142	103
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1331.00	-102.6	46.4	-56.2	-13.0	-43.2	159	197

Mode	TX channel 133297 (680.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1361.00	-102.2	47.1	-55.1	-13.0	-42.1	146	114
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1361.00	-102.2	46.6	-55.6	-13.0	-42.6	166	217

Mode	TX channel 133447 (695.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1391.00	-102.2	47.4	-54.8	-13.0	-41.8	144	123
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1391.00	-102.2	47.0	-55.2	-13.0	-42.2	159	297

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 71, Channel Bandwidth: 20MHz

Mode	TX channel 133222 (673.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1346.00	-102.3	47.2	-55.1	-13.0	-42.1	147	103
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1346.00	-100.2	44.7	-55.5	-13.0	-42.5	154	254

Mode	TX channel 133297 (680.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1361.00	-102.2	47.6	-54.6	-13.0	-41.6	144	97
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1361.00	-102.2	47.0	-55.2	-13.0	-42.2	162	203

Mode	TX channel 133372 (688.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	24deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Tank Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1376.00	-102.2	47.4	-54.9	-13.0	-41.9	152	117
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Freq. (MHz)	Correction Factor (dB)	Reading (dBuV/m)	ERP (dBm)	Limit (dBm)	Margin (dB)	Ant. Height (m)	Table Angle (deg)
1	1376.00	-102.2	46.9	-55.4	-13.0	-42.4	159	217

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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