

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Report No.: RFBFOK-WTW-P23050750B-4

FCC ID: RI7SE250B4

Product: Module

Brand: Telit Cinterion

Model No.: SE250B4-NA

Received Date: 2025/7/16

Test Date: 2025/7/31

Issued Date: 2025/11/25

Applicant: Telit Communications S.p.A.

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FCC Registration / 788550 / TW0003

Designation Number:

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2025/11/25

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Prepared by : Polly Chien / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBFOK-WTW-P23050750B-4	Original release.	2025/11/25

1 Certificate

Product: Module

Brand: Telit Cinterion

Test Model: SE250B4-NA

Sample Status: Engineering sample

Applicant: Telit Communications S.p.A.

Test Date: 2025/7/31

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Measurement procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 971168 D02 Misc Rev Approv License Devices v02r02

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.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
FCC 47 CFR Part 2.1046 FCC 47 CFR Part 22.913 (a) FCC 47 CFR Part 24.232 (c) FCC 47 CFR Part 27.50(d) FCC 47 CFR Part 27.50(h) FCC 47 CFR Part 27.50(c) FCC 47 CFR Part 27.50(b) FCC 47 CFR Part 90.635(b) FCC 47 CFR Part 90.542(a)(7)	Effective Radiated Power and Equivalent Isotropically Radiated Power	NA	Refer to Note 1
FCC 47 CFR Part 2.1047	Modulation Characteristics	NA	Refer to Note 1
FCC 47 CFR Part 22.913 (d) FCC 47 CFR Part 24.232 (d) FCC 47 CFR Part 27.50(d)	Peak to Average Ratio	NA	Refer to Note 1
FCC 47 CFR Part 2.1049	Bandwidth	NA	Refer to Note 1
FCC 47 CFR Part 2.1051 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Conducted Spurious Emissions	NA	Refer to Note 1
FCC 47 CFR Part 2.1053 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -32.60 dB at 53.28 MHz
FCC 47 CFR Part 2.1053 FCC 47 CFR Part 22.917 FCC 47 CFR Part 24.238 FCC 47 CFR Part 27.53(h) FCC 47 CFR Part 27.53(m) FCC 47 CFR Part 27.53(g) FCC 47 CFR Part 27.53(c)(f) FCC 47 CFR Part 90.691 FCC 47 CFR Part 90.543(e)(f)	Radiated Spurious Emissions above 1GHz	NA	Refer to Note 1
FCC 47 CFR Part 2.1055 FCC 47 CFR Part 22.355 FCC 47 CFR Part 24.235 FCC 47 CFR Part 27.54 FCC 47 CFR Part 90.213 FCC 47 CFR Part 90.539(e)	Frequency Stability	NA	Refer to Note 1

Note:

1. Only unwanted emissions below 1 GHz was verified and recorded in this report. The others testing data refer to original test report.
2. 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:

Parameter	Specification	Uncertainty (±)
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Module
Brand	Telit Cinterion
Test Model	SE250B4-NA
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc (from DC Power Supply) 5 Vdc (from adapter)
Technology Type	4G Cellular Networks
HW Version	1.1
SW Version (FVIN)	MON.100003

Note:

1. This report is issued as a supplementary report of BV CPS report no.: RFBFOK-WTW-P23050750A-4. The differences compared to the original report are as below. Therefore, only unwanted emissions below 1 GHz was verified and recorded in this report. The others testing data refer to original test report.

- Add 2nd source components pin to pin
- Remove Filter
- HW updates version Change (HW Change SKU)
- Update SW Version as below table:

Model	SW	Change Note
SE250B4-NA	MON.100001	Initial software
	MON.100002	Enable GPS/AGPS ATT & Verizon issues fixed
	MON.100003	Modify [Boot] correct pimem size for DDR 3G.

2. The EUT uses following support unit.

AC Adapter	Brand	Shenzhen Aoda Technology Co., Ltd
	Model	A938-055200W-US1
	AC Input	100-240V~50/60Hz, 0.35A
	DC Output	5V, 2A
	Power cord	1m, w/o core

3. Sample's information.

Item	Location	Version	Description	Manufacturer	Manufacturer P/N	Configuration			
						Config#1 (main source)	Config#2 (2nd source)	Config#3 (2nd source)	Config#4 (2nd source)
HW Version	N/A	1.0 Version	eMMC:16G+DRAM: 2G	LONGSYS		V			
		1.1 Version	eMMC:32G+DRAM: 2G	LONGSYS			V		
		1.0 Version	eMMC:16G+DRAM: 2G	SAMSUNG				V	
		1.1 Version	eMMC:32G+DRAM: 3G	LONGSYS					V
SW Version	N/A	MON.100001	Initial software			V		V	
		MON.100002	Enable GPS/AGPS ATT & Verizon issues fixed			V			
		MON.100003	Modify [Boot] correct pimem size for DDR 3G.				V		V
Filter	F2201 F2203	N/A	SAW LPF 698-960MHz 1*0.5*0.5 6P	MICROGATE	MLPF15M0829P69-L29	V		V	
Filter	FL2202	N/A	SAW Low pass 1085MHz 2*1.25*1 3P	MURATA	LFL211G08TF3D908	V		V	
Memory eMMC	U2	N/A	IC_16GB_eMMC_2.7~3.6V_11.5*13.0*1.0_153P FBGA	LONGSYS	FEMDRM016G-58A43	V			
	U2		IC_eMMC 32G_2.7~3.6V_11.5*13*0.8_153P FBGA(TLC type)	LONGSYS	FEMDNN032G-C9A55		V		V
	U2		IC 16GB eMMC 1.8V 11.5*13*0.8 153P FBGA	SAMSUNG	KLMAG1JETD-B041			V	
	U3		IC LPDDR4X 16Gb 1.8V 10*14.5*1 200P VFBG	LONGSYS	FLXC2002G-N2	V	V		
DDR4	U3		IC LPDDR4X 24Gb 1.8V 10*14.5*1 200P_FBGA	LONGSYS	FLXC2003G-49				V
	U3		IC LPDDR4X 16Gb 1.8V 10*15*0.9 200P FBGA	SAMSUNG	K4U6E3S4AB-MGCL			V	
PCB	N/A	N/A	PCB_MB_R_C_14L_1.4mm_4 to 1	WUZHU	BEH3V1410043C0	V		V	
	N/A			HONGHUASHENG	695J008ECA		V		V
LPF	U2311,U2312	N/A	SAW LPF 1710-2690MHz 1.6*0.8*0.6 4P	WALSIN	RFLPF1606F25T	V		V	
	U2311,U2312		SAW LPF 1710-2690MHz 1.6*0.8*0.6 4P	WALSIN	RFLPF1606F48T		V		V

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type		Monopole	
Antenna Connector		SMA	
LTE Band			
Band	Freq. Range (MHz)	Gain (dBi)	
		Ant. 1 (TX/RX)	Ant. 2 (RX diversity)
LTE B2	1850 ~ 1910	2.16	2.16
LTE B4	1710 ~ 1755	2.06	2.06
LTE B5	824 ~ 849	2.31	2.31
LTE B7	2500 ~ 2570	3.12	3.12
LTE B12	698 ~ 716	1.47	1.47
LTE B13	777 ~ 787	1.29	1.29
LTE B14	788 ~ 798	1.47	1.47
LTE B17	704 ~ 716	1.47	1.47
LTE B25	1850 ~ 1915	2.16	2.16
LTE B26	814 ~ 849	2.31	2.31
LTE B41	2535~2655	2.83	2.83
LTE B66	1710 ~ 1780	2.06	2.06
LTE B71	663 ~ 698	1.58	1.58

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: Sample 1/ Sample 2. Pre-scan these ways and find the worst case as a representative test condition. 2. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 3. This device was tested under all bandwidths, RB configurations and modulations. The worst case occurs with QPSK modulation and 1RB offset worst case. 4. For radiated spurious emissions, the worst case from the original report was selected for final testing.
Worst Case:	1. Sample 1/ Sample 2 Worst Condition: Sample 1 2. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis (Ant Z-axis)

For LTE Band 2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	18900 (1880.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 4

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20175 (1732.50 MHz)	20 MHz	QPSK	1 RB

For LTE Band 5

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20525 (836.50 MHz)	10 MHz	QPSK	1 RB

For LTE Band 7

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	21100 (2535.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 12

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23095 (707.50 MHz)	5 MHz	QPSK	1 RB

For LTE Band 13

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23230 (782.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 14

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23330 (793.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 17

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	23790 (710.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 25

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26365 (1882.50 MHz)	20 MHz	QPSK	1 RB

For LTE Band 26 (814 MHz ~ 824 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26740 (819.00 MHz)	10 MHz	QPSK	1 RB

For LTE Band 26 (824 MHz ~ 849 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	26915 (836.50 MHz)	15 MHz	QPSK	1 RB

For LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	40640 (2595.00 MHz)	20 MHz	QPSK	1 RB

For LTE Band 66

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	132322 (1745.00 MHz)	20 MHz	QPSK	1 RB

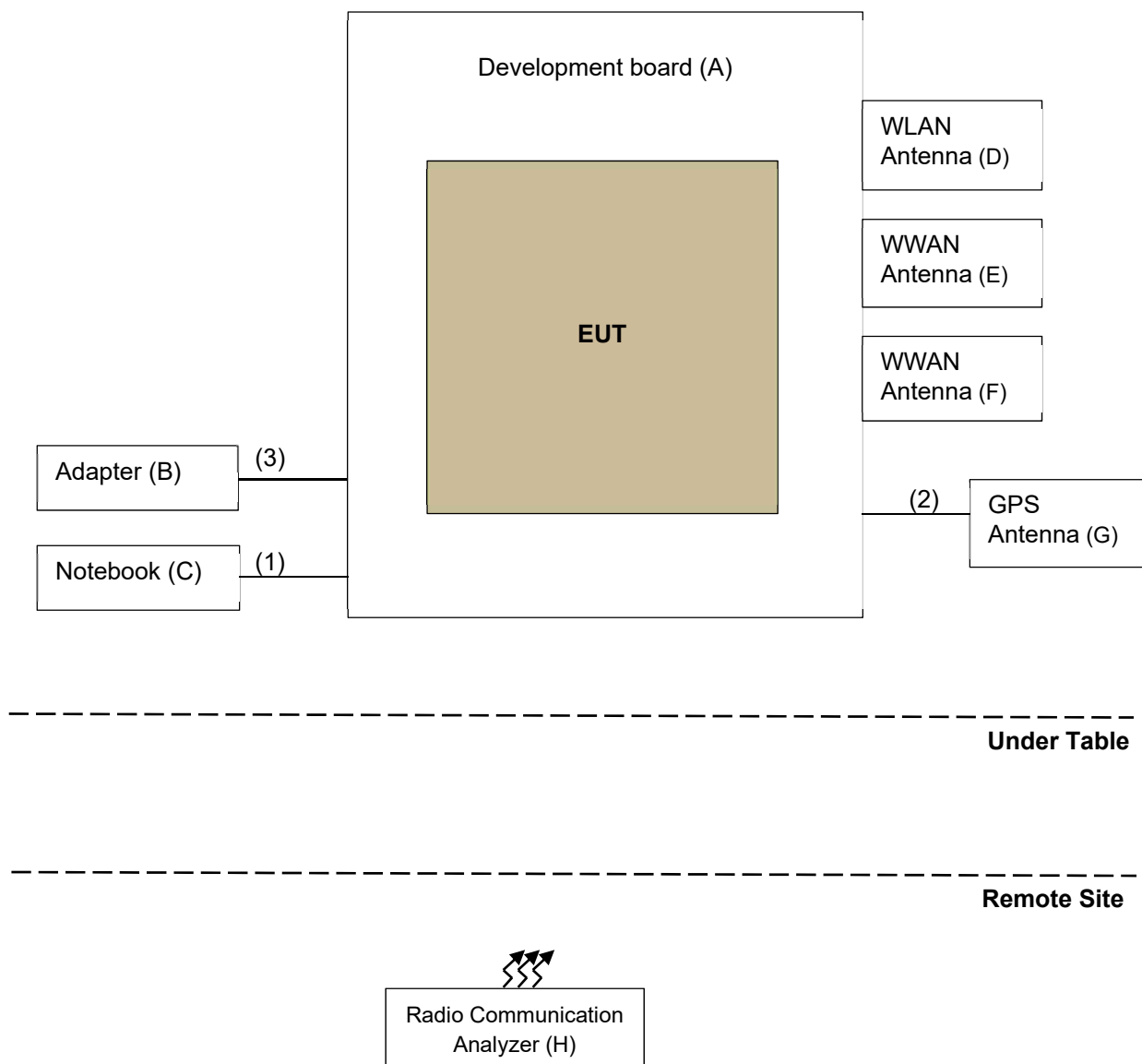
For LTE Band 71

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	133297 (680.50 MHz)	20 MHz	QPSK	1 RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Development board	NA	NA	NA	NA	Supplied by applicant
B	Adapter	Shenzhen Aoda Technology Co., Ltd	A938-055200W-US1	NA	NA	Supplied by applicant
C	Notebook	Lenovo	X250ALT5	PC06HPSE	NA	Provided by Lab
D	WIFI Antenna	ZTX	1.22.00648	NA	NA	Supplied by applicant
E	WWAN Antenna	ZTX	1.22.00573	NA	NA	Supplied by applicant
F	WWAN Antenna	ZTX	1.22.00573	NA	NA	Supplied by applicant
G	GPS Antenna	HUIZHOU SPEED WIRELESS TECHNOLOGY CO., LTD.	L500MM	NA	NA	Supplied by applicant
H	Radio Communication Test Station	Anritsu	MT8821C	6272278310	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type-C cable	1	1	N	0	Provided by Lab
2	GPS cable	1	1	N	0	Supplied by applicant
3	DC power cable	1	1	N	0	Supplied by applicant

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2024/10/9	2025/10/8
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Agilent	N9038A	MY51210203	2024/8/27	2025/8/26
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/7/31

5 Limits of Test Items

5.1 Radiated Spurious Emissions below 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (Part 22):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

For LTE Band 4:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz 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. The limit of emission is equal to -13 dBm.

For LTE Band 7, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 12, LTE Band 17, LTE Band 71:

According to FCC 47 CFR part 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. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 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. The limit of emissions is equal to -13 dBm.

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

For LTE Band 14:

According to FCC 47 CFR part 90.543 (e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

According to FCC 47 CFR part 90.543 (f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 26 (Part 90):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 66:

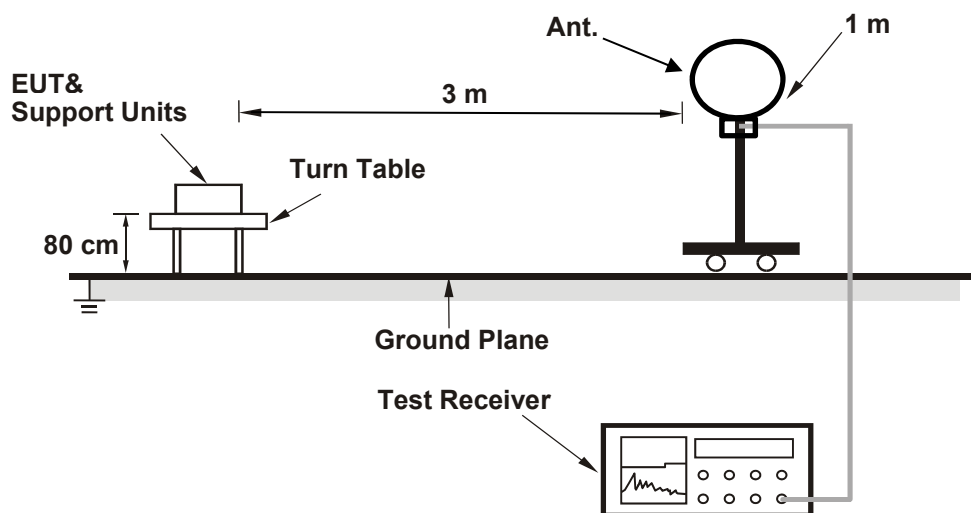
According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

6 Test Arrangements

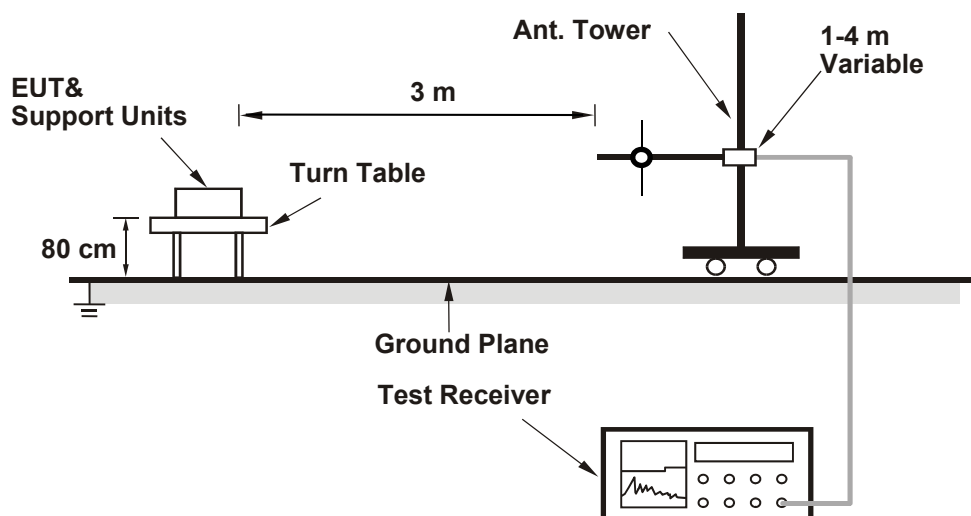
6.1 Radiated Spurious Emissions below 1GHz

6.1.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.1.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) 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 1 m to 4 m 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 ANSI C63.26 section 5.5 and 5.2.7
- e. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

7 Test Results of Test Item

7.1 Radiated Spurious Emissions below 1GHz

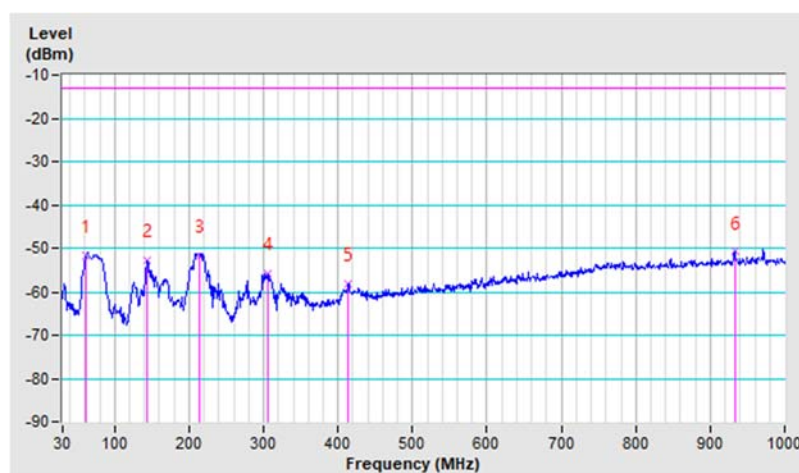
7.1.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	61.04	-51.70	-13.00	-38.70	2.00 H	236	56.64	-108.34
2	143.49	-52.60	-13.00	-39.60	1.50 H	247	55.05	-107.65
3	213.33	-51.67	-13.00	-38.67	1.00 H	165	59.01	-110.68
4	306.45	-55.80	-13.00	-42.80	1.50 H	301	50.84	-106.64
5	414.12	-58.07	-13.00	-45.07	1.00 H	303	45.96	-104.03
6	933.07	-50.85	-13.00	-37.85	1.00 H	38	44.10	-94.95

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

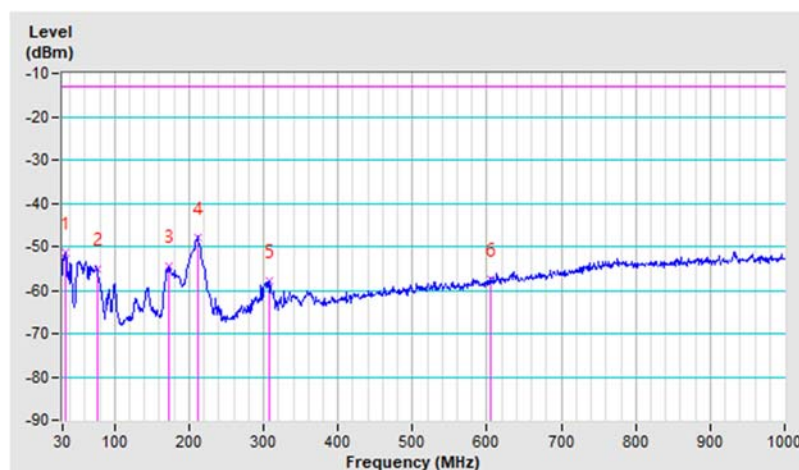


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	-51.50	-13.00	-38.50	1.00 V	239	56.51	-108.01
2	76.56	-55.10	-13.00	-42.10	2.00 V	2	56.38	-111.48
3	173.56	-54.51	-13.00	-41.51	1.00 V	124	53.83	-108.34
4	211.39	-47.80	-13.00	-34.80	1.50 V	183	62.86	-110.66
5	307.42	-57.87	-13.00	-44.87	1.00 V	216	48.74	-106.61
6	604.24	-57.30	-13.00	-44.30	1.50 V	352	42.54	-99.84

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



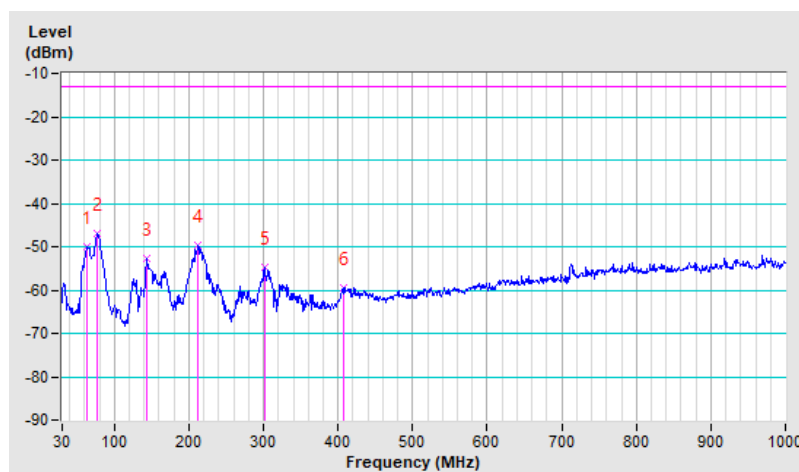
7.1.2 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	-50.10	-13.00	-37.10	2.00 H	245	58.59	-108.69
2	77.53	-47.09	-13.00	-34.09	1.00 H	77	64.61	-111.70
3	143.49	-52.70	-13.00	-39.70	1.50 H	260	54.95	-107.65
4	212.36	-49.72	-13.00	-36.72	1.00 H	154	60.94	-110.66
5	301.60	-54.70	-13.00	-41.70	2.00 H	291	52.11	-106.81
6	407.33	-59.34	-13.00	-46.34	1.00 H	300	44.89	-104.23

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

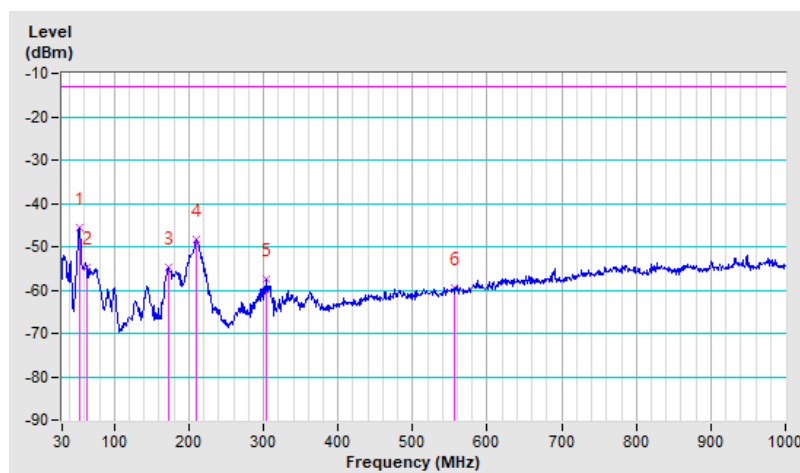


RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-45.60	-13.00	-32.60	2.00 V	256	62.01	-107.61
2	62.98	-54.65	-13.00	-41.65	1.00 V	102	53.99	-108.64
3	172.59	-54.80	-13.00	-41.80	1.50 V	142	53.45	-108.25
4	210.42	-48.47	-13.00	-35.47	1.00 V	164	62.18	-110.65
5	303.54	-57.36	-13.00	-44.36	1.00 V	201	49.39	-106.75
6	555.74	-59.40	-13.00	-46.40	1.50 V	268	41.65	-101.05

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



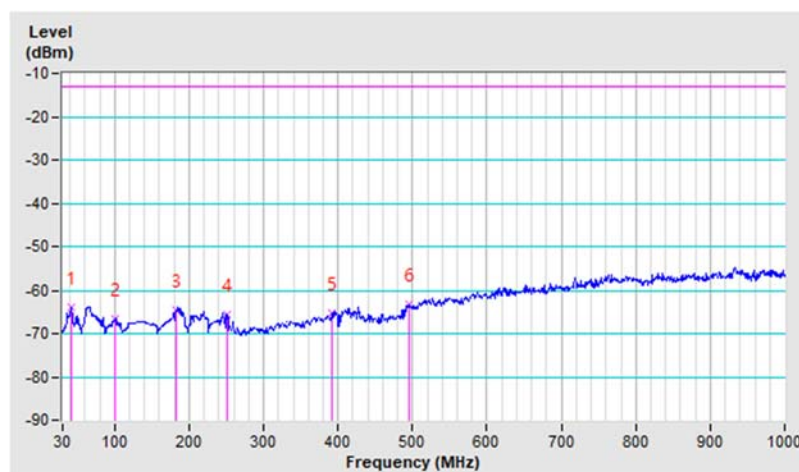
7.1.3 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-63.97	-13.00	-50.97	1.00 H	250	45.77	-109.74
2	99.84	-66.57	-13.00	-53.57	1.00 H	57	47.52	-114.09
3	182.29	-64.50	-13.00	-51.50	1.00 H	94	47.09	-111.59
4	251.16	-65.48	-13.00	-52.48	1.00 H	174	45.39	-110.87
5	391.81	-65.20	-13.00	-52.20	1.00 H	169	41.60	-106.80
6	495.60	-63.27	-13.00	-50.27	1.00 H	193	40.79	-104.06

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

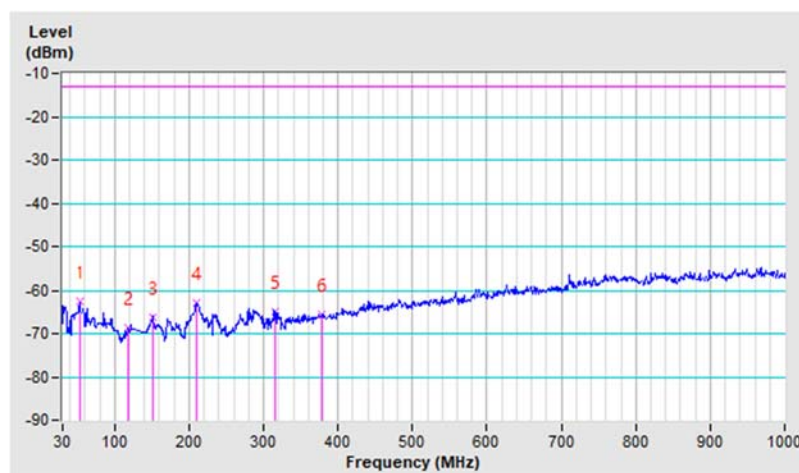


RF Mode	LTE Band 5 Channel Bandwidth: 10MHz	Channel	CH 20525 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-62.53	-13.00	-49.53	1.00 V	43	47.23	-109.76
2	118.27	-68.53	-13.00	-55.53	1.00 V	61	43.16	-111.69
3	151.25	-66.33	-13.00	-53.33	1.00 V	19	43.30	-109.63
4	210.42	-62.82	-13.00	-49.82	1.00 V	183	49.98	-112.80
5	315.18	-65.07	-13.00	-52.07	1.00 V	212	43.45	-108.52
6	378.23	-65.68	-13.00	-52.68	1.00 V	304	41.51	-107.19

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



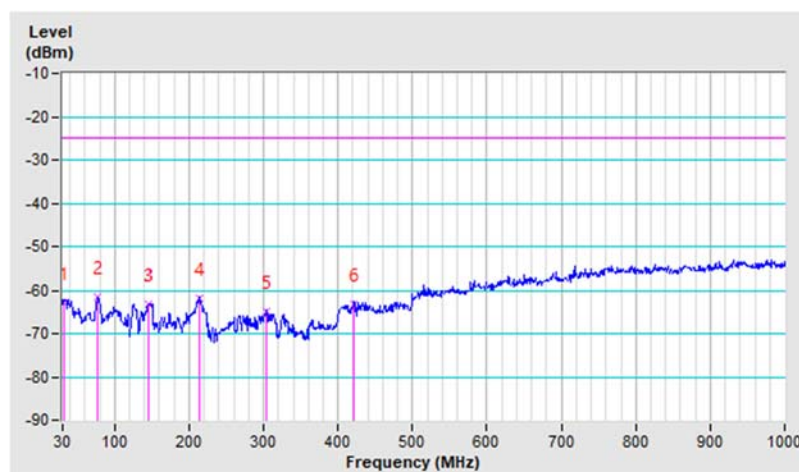
7.1.4 LTE Band 7

RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21100 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-62.81	-25.00	-37.81	1.00 H	182	45.38	-108.19
2	77.53	-61.37	-25.00	-36.37	1.00 H	2	50.33	-111.70
3	144.46	-63.19	-25.00	-38.19	1.00 H	242	44.45	-107.64
4	213.33	-61.72	-25.00	-36.72	1.00 H	164	48.96	-110.68
5	303.54	-64.80	-25.00	-39.80	1.00 H	290	41.95	-106.75
6	421.88	-63.18	-25.00	-38.18	1.00 H	236	40.52	-103.70

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

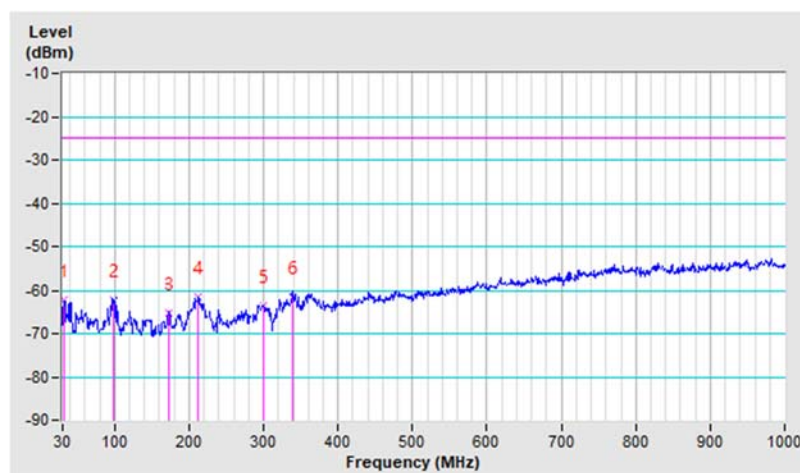


RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21100 : 2535 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-62.06	-25.00	-37.06	1.00 V	107	46.09	-108.15
2	98.87	-62.30	-25.00	-37.30	1.00 V	357	49.80	-112.10
3	173.56	-65.39	-25.00	-40.39	1.00 V	256	42.95	-108.34
4	212.36	-61.61	-25.00	-36.61	1.00 V	176	49.05	-110.66
5	299.66	-63.50	-25.00	-38.50	1.50 V	199	43.37	-106.87
6	339.43	-61.38	-25.00	-36.38	1.00 V	120	44.62	-106.00

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



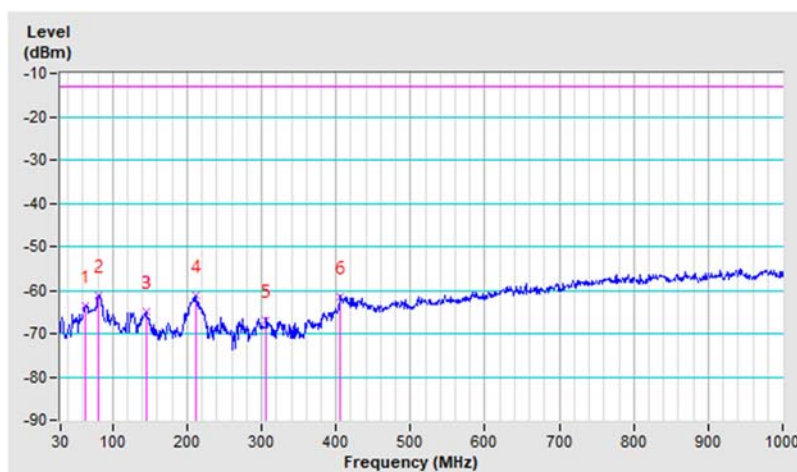
7.1.5 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.98	-63.62	-13.00	-50.62	1.00 H	274	47.17	-110.79
2	80.44	-61.35	-13.00	-48.35	1.00 H	2	53.22	-114.57
3	144.46	-65.05	-13.00	-52.05	1.00 H	245	44.74	-109.79
4	211.39	-61.32	-13.00	-48.32	1.00 H	153	51.49	-112.81
5	306.45	-66.92	-13.00	-53.92	1.00 H	297	41.87	-108.79
6	406.36	-61.60	-13.00	-48.60	2.00 H	315	44.80	-106.40

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

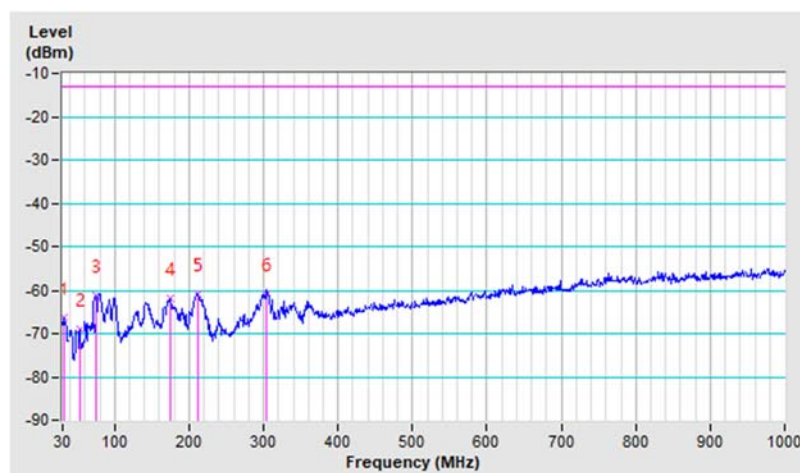


RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-66.14	-13.00	-53.14	1.00 V	139	44.16	-110.30
2	53.28	-69.08	-13.00	-56.08	1.00 V	329	40.68	-109.76
3	75.59	-61.10	-13.00	-48.10	1.50 V	25	52.21	-113.31
4	175.50	-61.77	-13.00	-48.77	1.00 V	276	48.85	-110.62
5	211.39	-61.00	-13.00	-48.00	1.50 V	167	51.81	-112.81
6	304.51	-60.93	-13.00	-47.93	1.00 V	203	47.93	-108.86

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



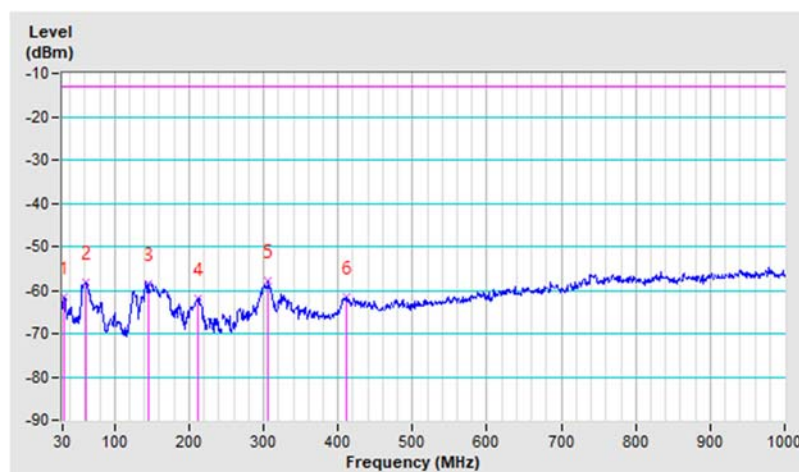
7.1.6 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-61.59	-13.00	-48.59	1.00 H	203	48.75	-110.34
2	61.04	-58.10	-13.00	-45.10	1.50 H	243	52.39	-110.49
3	144.46	-58.60	-13.00	-45.60	2.00 H	266	51.19	-109.79
4	212.36	-61.70	-13.00	-48.70	2.00 H	146	51.11	-112.81
5	306.45	-57.92	-13.00	-44.92	1.00 H	305	50.87	-108.79
6	411.21	-61.63	-13.00	-48.63	1.00 H	301	44.65	-106.28

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

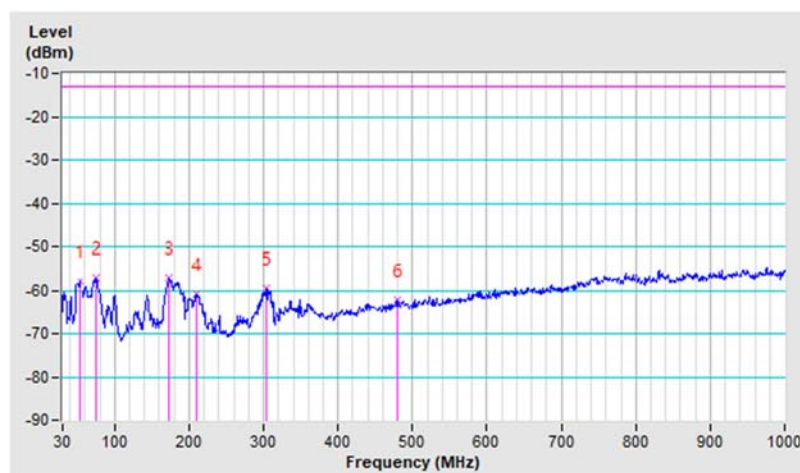


RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-57.80	-13.00	-44.80	1.00 V	2	51.96	-109.76
2	75.59	-57.15	-13.00	-44.15	1.00 V	2	56.16	-113.31
3	173.56	-57.10	-13.00	-44.10	1.50 V	126	53.39	-110.49
4	209.45	-60.83	-13.00	-47.83	1.00 V	173	51.97	-112.80
5	304.51	-59.60	-13.00	-46.60	2.00 V	210	49.26	-108.86
6	479.11	-62.20	-13.00	-49.20	1.50 V	127	42.25	-104.45

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



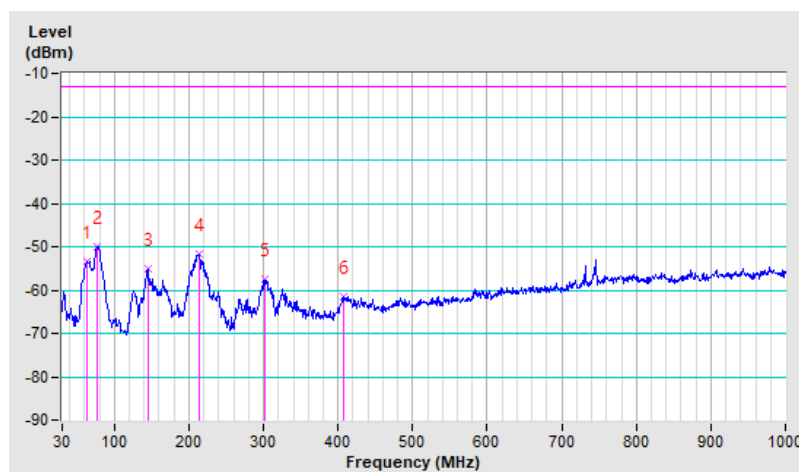
7.1.7 LTE Band 14

RF Mode	LTE Band 14 Channel Bandwidth: 10MHz	Channel	CH 23330 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	-53.40	-13.00	-40.40	2.00 H	246	57.44	-110.84
2	77.53	-49.91	-13.00	-36.91	1.00 H	52	63.94	-113.85
3	144.46	-54.97	-13.00	-41.97	1.00 H	249	54.82	-109.79
4	213.33	-51.67	-13.00	-38.67	1.00 H	163	61.16	-112.83
5	302.57	-57.60	-13.00	-44.60	2.00 H	282	51.33	-108.93
6	408.30	-61.58	-13.00	-48.58	1.00 H	244	44.78	-106.36

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

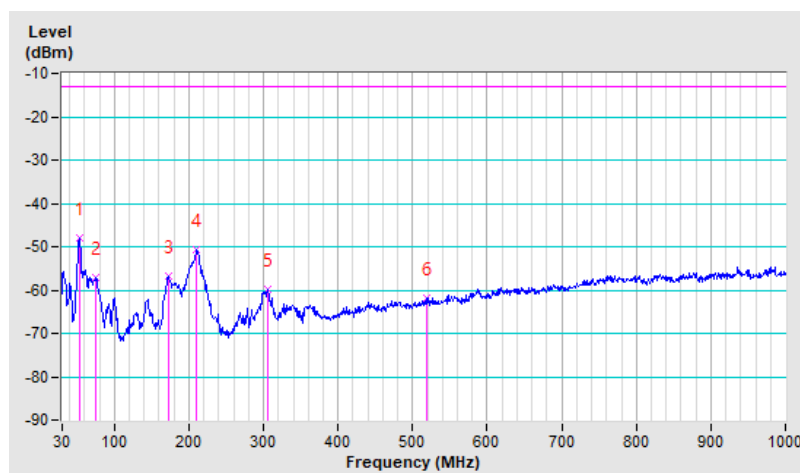


RF Mode	LTE Band 14 Channel Bandwidth: 10MHz	Channel	CH 23330 : 793 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-47.86	-13.00	-34.86	1.00 V	160	61.90	-109.76
2	75.59	-57.02	-13.00	-44.02	1.00 V	359	56.29	-113.31
3	172.59	-56.82	-13.00	-43.82	1.00 V	142	53.58	-110.40
4	210.42	-50.81	-13.00	-37.81	1.00 V	165	61.99	-112.80
5	306.45	-59.90	-13.00	-46.90	2.00 V	209	48.89	-108.79
6	518.88	-61.70	-13.00	-48.70	1.50 V	71	41.68	-103.38

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



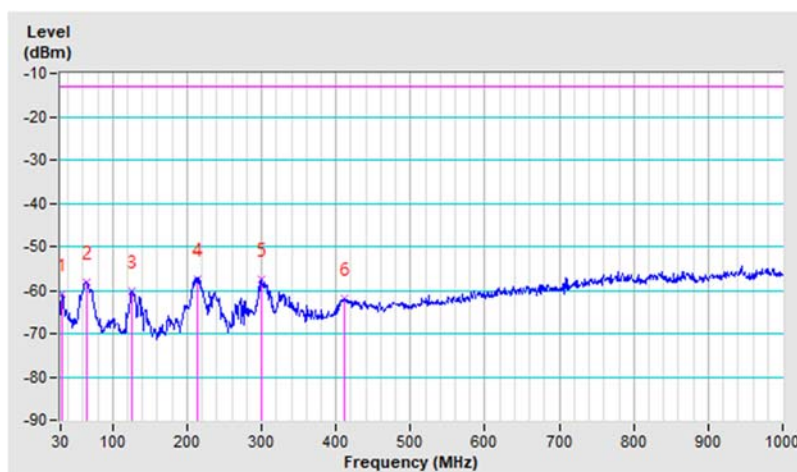
7.1.8 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23790 : 710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-60.81	-13.00	-47.81	1.00 H	175	49.53	-110.34
2	64.92	-58.23	-13.00	-45.23	1.00 H	218	53.19	-111.42
3	125.06	-60.32	-13.00	-47.32	1.00 H	262	50.68	-111.00
4	213.33	-57.58	-13.00	-44.58	1.00 H	144	55.25	-112.83
5	300.63	-57.59	-13.00	-44.59	1.00 H	298	51.40	-108.99
6	411.21	-61.80	-13.00	-48.80	1.50 H	72	44.48	-106.28

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

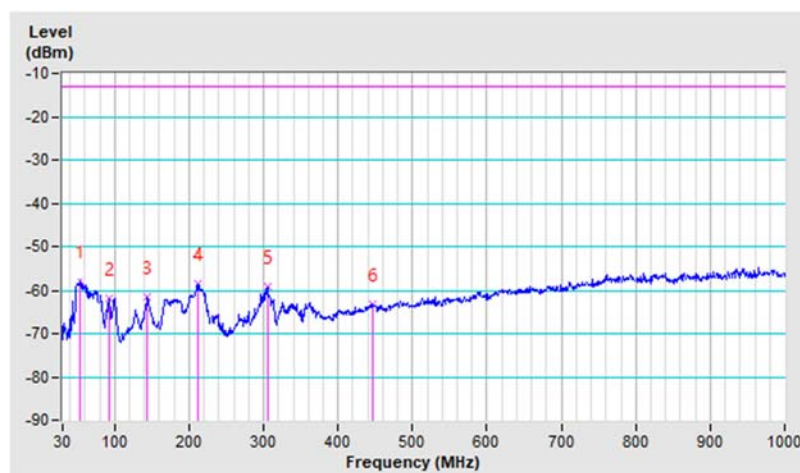


RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23790 : 710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-57.88	-13.00	-44.88	1.00 V	2	51.88	-109.76
2	92.08	-61.95	-13.00	-48.95	1.00 V	223	53.26	-115.21
3	143.49	-61.56	-13.00	-48.56	1.00 V	184	48.24	-109.80
4	211.39	-58.48	-13.00	-45.48	1.00 V	207	54.33	-112.81
5	305.48	-59.20	-13.00	-46.20	1.00 V	194	49.63	-108.83
6	447.10	-63.12	-13.00	-50.12	1.00 V	2	42.00	-105.12

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



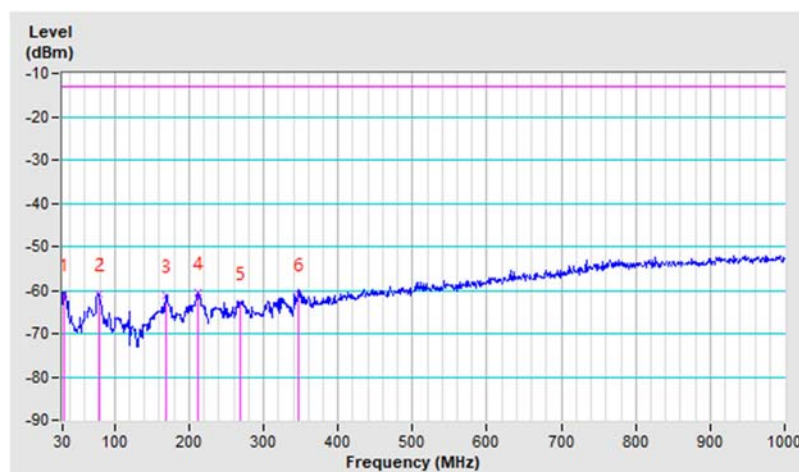
7.1.9 LTE Band 25

RF Mode	LTE Band 25 Channel Bandwidth: 20MHz	Channel	CH 26365 : 1882.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-60.93	-13.00	-47.93	1.00 H	152	47.26	-108.19
2	78.50	-60.84	-13.00	-47.84	1.00 H	18	51.07	-111.91
3	169.68	-61.33	-13.00	-48.33	1.00 H	296	46.68	-108.01
4	212.36	-60.66	-13.00	-47.66	1.00 H	156	50.00	-110.66
5	268.62	-62.85	-13.00	-49.85	1.00 H	177	45.09	-107.94
6	347.19	-60.73	-13.00	-47.73	1.00 H	296	45.22	-105.95

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

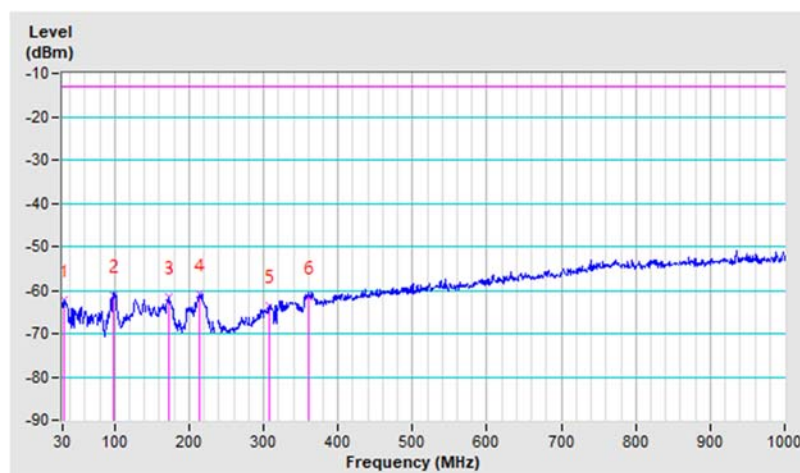


RF Mode	LTE Band 25 Channel Bandwidth: 20MHz	Channel	CH 26365 : 1882.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-62.20	-13.00	-49.20	1.00 V	118	45.95	-108.15
2	98.87	-61.12	-13.00	-48.12	1.00 V	340	50.98	-112.10
3	173.56	-61.37	-13.00	-48.37	1.00 V	166	46.97	-108.34
4	213.33	-60.68	-13.00	-47.68	1.00 V	187	50.00	-110.68
5	308.39	-63.40	-13.00	-50.40	1.50 V	206	43.19	-106.59
6	360.77	-61.40	-13.00	-48.40	1.00 V	201	44.23	-105.63

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



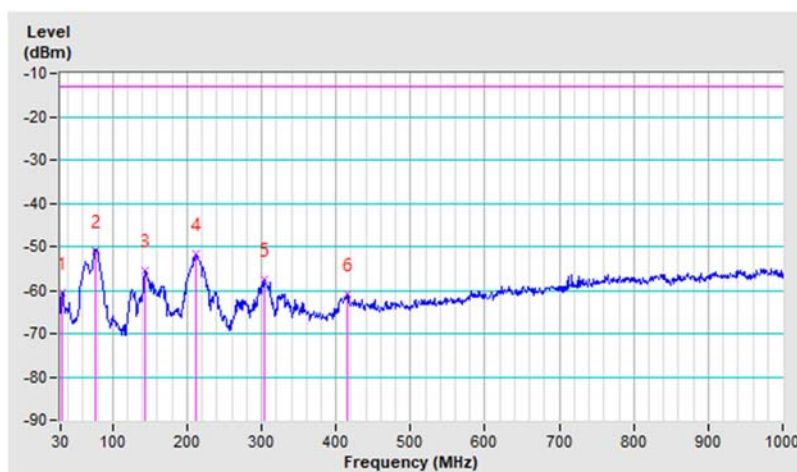
7.1.10LTE Band 26 (814 MHz ~ 824 MHz)

RF Mode	LTE Band 26 Channel Bandwidth: 10MHz	Channel	CH 26740 : 819 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-60.56	-13.00	-47.56	1.00 H	214	49.74	-110.30
2	77.53	-50.92	-13.00	-37.92	1.00 H	90	62.93	-113.85
3	143.49	-55.30	-13.00	-42.30	2.00 H	273	54.50	-109.80
4	212.36	-51.56	-13.00	-38.56	1.00 H	152	61.25	-112.81
5	303.54	-57.50	-13.00	-44.50	2.00 H	282	51.40	-108.90
6	416.06	-60.86	-13.00	-47.86	1.00 H	239	45.24	-106.10

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

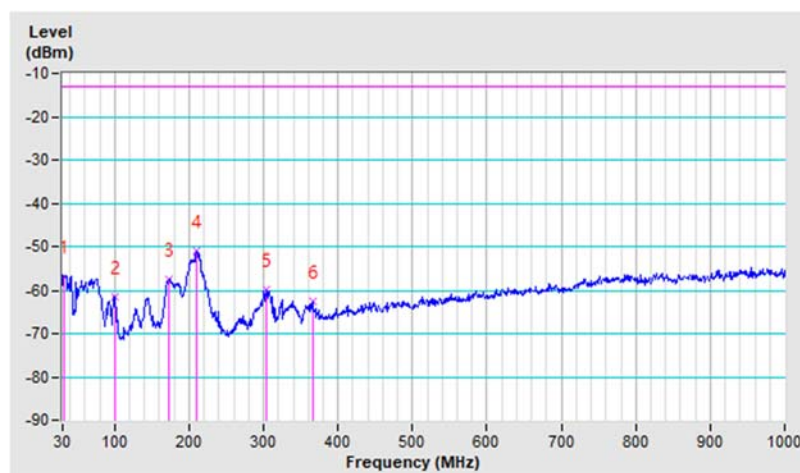


RF Mode	LTE Band 26 Channel Bandwidth: 10MHz	Channel	CH 26740 : 819 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-56.69	-13.00	-43.69	1.00 V	134	53.61	-110.30
2	99.84	-61.40	-13.00	-48.40	1.00 V	154	52.69	-114.09
3	172.59	-57.34	-13.00	-44.34	1.00 V	147	53.06	-110.40
4	210.42	-51.10	-13.00	-38.10	1.00 V	192	61.70	-112.80
5	303.54	-59.80	-13.00	-46.80	1.50 V	219	49.10	-108.90
6	365.62	-62.65	-13.00	-49.65	1.00 V	202	44.96	-107.61

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



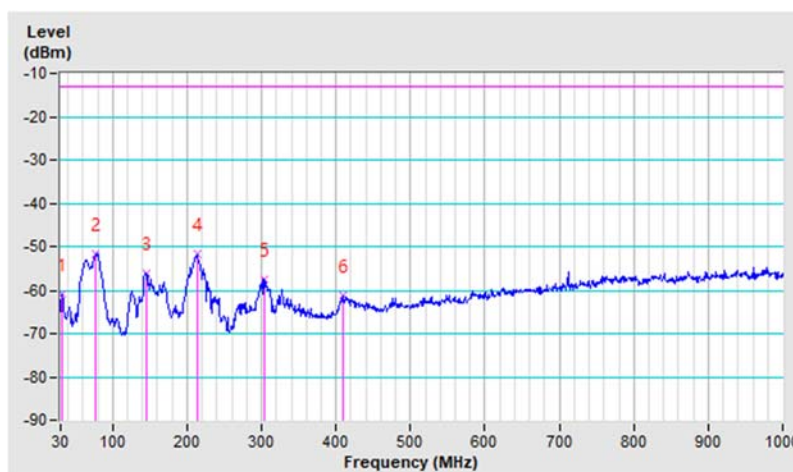
7.1.11LTE Band 26 (824 MHz ~ 849 MHz)

RF Mode	LTE Band 26 Channel Bandwidth: 15MHz	Channel	CH 26915 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-60.96	-13.00	-47.96	1.00 H	231	49.38	-110.34
2	77.53	-51.65	-13.00	-38.65	1.00 H	5	62.20	-113.85
3	144.46	-56.09	-13.00	-43.09	1.00 H	19	53.70	-109.79
4	213.33	-51.80	-13.00	-38.80	1.00 H	162	61.03	-112.83
5	304.51	-57.30	-13.00	-44.30	1.50 H	310	51.56	-108.86
6	409.27	-61.10	-13.00	-48.10	1.50 H	324	45.23	-106.33

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

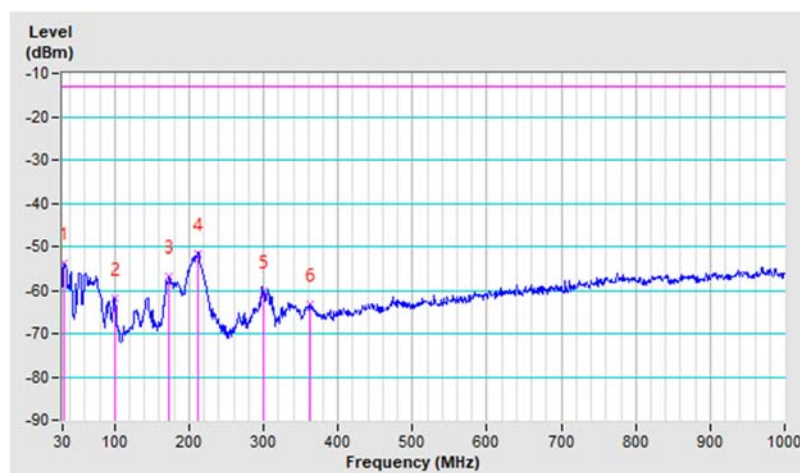


RF Mode	LTE Band 26 Channel Bandwidth: 15MHz	Channel	CH 26915 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-53.60	-13.00	-40.60	1.00 V	162	56.70	-110.30
2	99.84	-61.75	-13.00	-48.75	1.00 V	103	52.34	-114.09
3	173.56	-56.80	-13.00	-43.80	1.50 V	129	53.69	-110.49
4	211.39	-51.68	-13.00	-38.68	1.00 V	193	61.13	-112.81
5	300.63	-60.09	-13.00	-47.09	1.00 V	206	48.90	-108.99
6	361.74	-63.10	-13.00	-50.10	1.00 V	12	44.64	-107.74

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



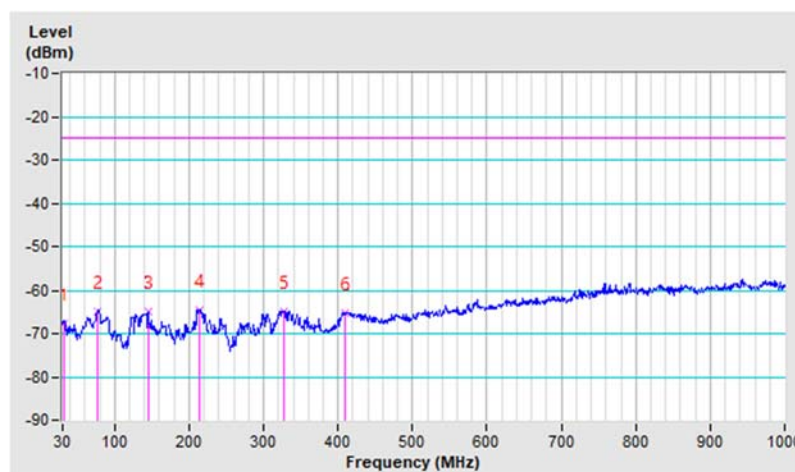
7.1.12LTE Band 41

RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	Channel	CH 40640 : 2595 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-67.49	-25.00	-42.49	1.00 H	212	40.70	-108.19
2	77.53	-64.91	-25.00	-39.91	1.00 H	36	46.79	-111.70
3	144.46	-64.83	-25.00	-39.83	1.00 H	258	42.81	-107.64
4	213.33	-64.59	-25.00	-39.59	1.00 H	154	46.09	-110.68
5	327.79	-64.83	-25.00	-39.83	1.00 H	291	41.23	-106.06
6	409.27	-65.10	-25.00	-40.10	1.00 H	314	39.08	-104.18

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

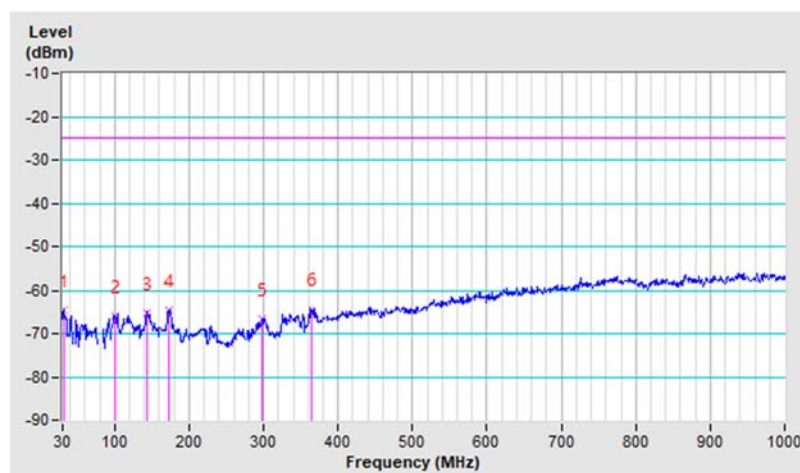


RF Mode	LTE Band 41 Channel Bandwidth: 20MHz	Channel	CH 40640 : 2595 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-64.59	-25.00	-39.59	1.00 V	160	43.56	-108.15
2	99.84	-65.85	-25.00	-40.85	1.00 V	86	46.09	-111.94
3	143.49	-65.28	-25.00	-40.28	1.00 V	214	42.37	-107.65
4	173.56	-64.70	-25.00	-39.70	2.00 V	132	43.64	-108.34
5	298.69	-66.60	-25.00	-41.60	1.50 V	209	40.29	-106.89
6	363.68	-64.28	-25.00	-39.28	1.00 V	196	41.24	-105.52

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



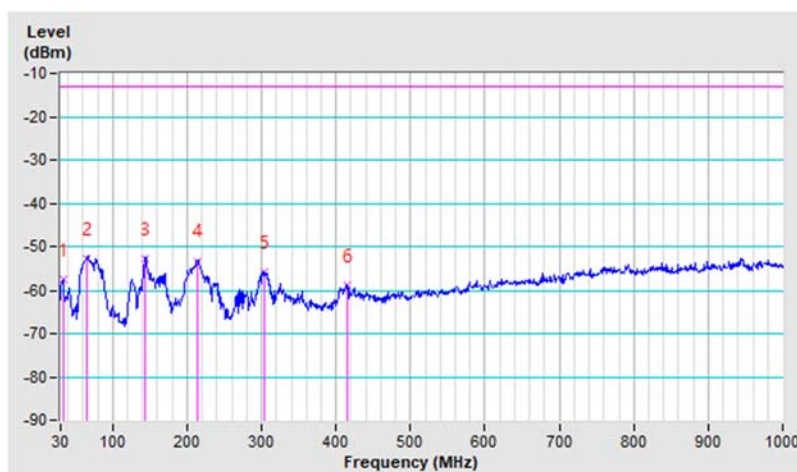
7.1.13LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.88	-57.59	-13.00	-44.59	1.00 H	306	50.52	-108.11
2	65.89	-52.62	-13.00	-39.62	1.00 H	202	56.60	-109.22
3	143.49	-52.76	-13.00	-39.76	1.00 H	259	54.89	-107.65
4	213.33	-53.00	-13.00	-40.00	1.00 H	156	57.68	-110.68
5	303.54	-55.70	-13.00	-42.70	2.00 H	284	51.05	-106.75
6	415.09	-58.72	-13.00	-45.72	1.00 H	10	45.27	-103.99

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

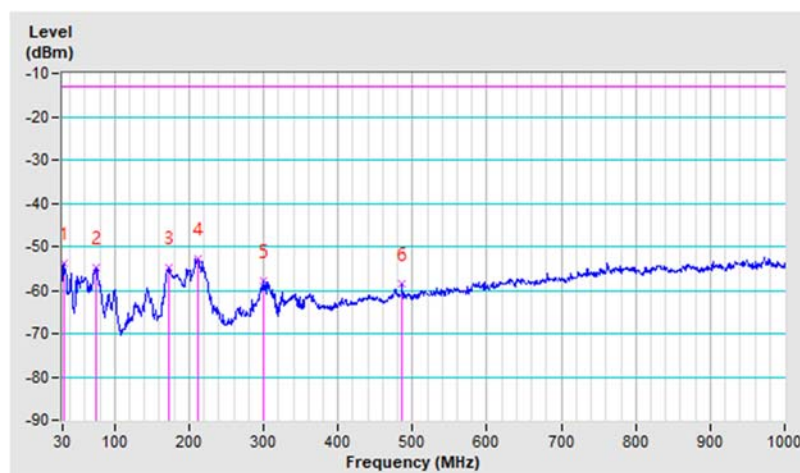


RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-53.84	-13.00	-40.84	1.00 V	114	54.31	-108.15
2	75.59	-54.87	-13.00	-41.87	1.00 V	2	56.29	-111.16
3	172.59	-54.80	-13.00	-41.80	1.50 V	142	53.45	-108.25
4	211.39	-52.74	-13.00	-39.74	1.00 V	166	57.92	-110.66
5	300.63	-57.93	-13.00	-44.93	1.00 V	206	48.91	-106.84
6	485.90	-58.60	-13.00	-45.60	1.50 V	138	43.56	-102.16

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



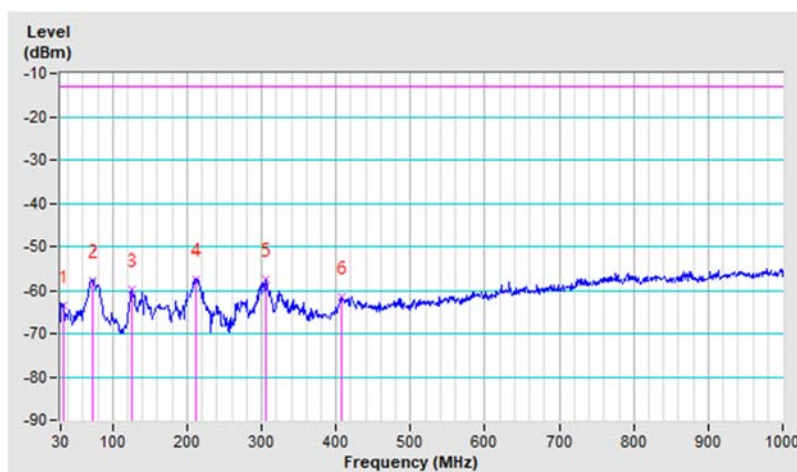
7.1.14LTE Band 71

RF Mode	LTE Band 71 Channel Bandwidth: 20MHz	Channel	CH 133297 : 680.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	-63.69	-13.00	-50.69	1.00 H	44	46.47	-110.16
2	73.65	-57.86	-13.00	-44.86	1.00 H	216	54.93	-112.79
3	126.03	-59.97	-13.00	-46.97	1.00 H	310	50.98	-110.95
4	211.39	-57.62	-13.00	-44.62	1.00 H	164	55.19	-112.81
5	306.45	-57.60	-13.00	-44.60	1.50 H	288	51.19	-108.79
6	408.30	-61.39	-13.00	-48.39	1.00 H	262	44.97	-106.36

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

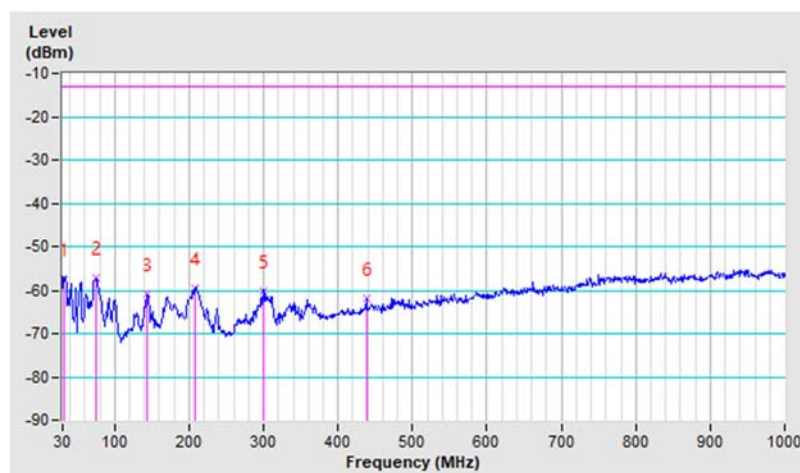


RF Mode	LTE Band 71 Channel Bandwidth: 20MHz	Channel	CH 133297 : 680.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-57.61	-13.00	-44.61	1.00 V	109	52.69	-110.30
2	75.59	-57.19	-13.00	-44.19	1.00 V	338	56.12	-113.31
3	142.52	-60.90	-13.00	-47.90	1.00 V	194	48.96	-109.86
4	208.48	-59.63	-13.00	-46.63	1.00 V	167	53.18	-112.81
5	299.66	-60.00	-13.00	-47.00	1.50 V	207	49.02	-109.02
6	438.37	-61.77	-13.00	-48.77	1.00 V	18	43.57	-105.34

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 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 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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