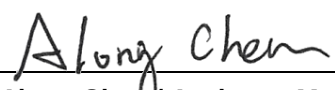


FCC Co-Location Test Report

FCC ID : 2AQ68-GME840U-915U
Equipment : Wireless Gateway
Model No. : GME840U-915U
Multiple Listing : Refer to item 1.1.1 for more details.
Applicant : HON LIN TECHNOLOGY CO., LTD.
Address : 11F, No.32, Jihu Rd., Neihu Dist., Taipei
City, Taiwan 114
Standard : 47 CFR FCC Part 15.247
Received Date : Sep. 04, 2020
Tested Date : Oct. 21 ~ Oct. 28, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

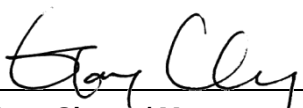

Gary Chang / Manager



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1.4	Reference Guidance	9
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Release Record

Report No.	Version	Description	Issued Date
FR970401-04CO	Rev. 01	Initial issue	Nov. 10, 2020

Summary of Test Results

Test Items	Measured	Result
Radiated Emissions	[dBuV/m at 3m]: 1378.27MHz -41.87 (Margin -1.87dB)	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Model Name	Description	Remark
GME840U-915U	without LTE function	PCB is identical to each model. Difference between both models is only certified LTE module (FCC ID: ZMOL850GL) is embed or not.
GML840U-915U	with LTE function	

1.1.2 Specification of the Equipment under Test (EUT)

WLAN	
Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz
Antenna Type	PIFA antenna
Modulation Type	802.11b: DSSS (DBPSK/DQPSK/CCK) 802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
LoRa	
Operating Frequency	923.3 MHz ~ 927.5 MHz
Antenna Type	Dipole antenna
Modulation Type	CSS

1.1.3 Specification of Certified LTE module (FCC ID: ZMOL850GL)

LTE	
Operating Frequency	Band 02: 1850 MHz – 1910 MHz Band 04: 1710 MHz – 1755 MHz Band 05: 824 MHz – 849 MHz Band 12: 699 MHz – 716 MHz Band 13: 777 MHz – 787 MHz Band 17: 704 MHz – 716 MHz Band 26: 814 MHz – 849 MHz Band 30: 2305 MHz – 2315 MHz Band 66: 1710 MHz – 1780 MHz Band 41: 2496 MHz – 2690 MHz
Modulation Type	DL:QPSK/16QAM/64QAM, UL:QPSK/16QAM
WCDMA	
Operating Frequency	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz
Modulation Type	DL:QPSK/16QAM/64QAM (DC-HSDPA), UL:QPSK (HSUPA)

1.1.4 Antenna Details

Wi-Fi

Ant. No.	Model	Type	Connector	Gain (dBi)
1	ANTP2M2-CZZ08-EH	PIFA	IPEX	2.75

Lora

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)	Jumper cable
1	WHA YU	C107-511326-A	Dipole	N-type plug standard	-0.79	X
2	WHA YU	C107-511380-A	Dipole	N-type plug standard	2.88	X
3	WHA YU	C107-821521-A	Dipole	N-type Jack standard	1.17	O
4	WHA YU	C107-821527-A	Dipole	N-type Jack female	7.04	O
5	TESSWAVE	TOF-900R-8V	Dipole	N-type Jack female	6.5	O

LTE / WCDMA

Ant. No.	Model	Type	Connector	Gain (dBi)	Frequency band
1	C107-511326-A	Dipole	N type	-0.05	1850 MHz – 1910 MHz
				0.34	1710 MHz – 1755 MHz
				-0.4	824 MHz – 849 MHz
				-0.02	699 MHz – 716 MHz
				0.09	777 MHz – 787 MHz
				-0.02	704 MHz – 716 MHz
				-0.4	814 MHz – 849 MHz
				2.44	2305 MHz – 2315 MHz
				0.34	1710 MHz – 1780 MHz
				1.99	2496 MHz – 2690 MHz

1.1.5 Power Supply Type of Equipment under Test (EUT)

Power Supply Type 1 (PoE)	I/P: 100-240Vac, 50/60Hz, 1.5A max. O/P: 50Vdc, 1.2A
Power Supply Type 2 (DC power source)	I/P: 11-57Vdc O/P: 10.8Vdc, 2.36A

1.1.6 Accessories

Accessories		
No.	Equipment	Description
1	POE	Brand: Gospell Model: G0566-500-120 Power Rating: I/P: 100-240Vac, 50/60Hz, 1.5A max. O/P: 50Vdc, 1.2A Power Line: 0.67m non-shielded without core
2	Ground cable	1m non-shielded without core
3	Jumper cable for Lora	0.609m non-shielded without core
4	GPS Antenna	Brand: INPAQ Model: GPSGLONASS08H-S6-1510

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Oct. 21 ~ Oct. 28, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	May 06, 2020	May 05, 2021
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980187	Aug. 05, 2020	Aug. 04, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 02, 2020	Sep. 01, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 26, 2020	Sep. 25, 2021
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 26, 2020	Sep. 25, 2021
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 26, 2020	Sep. 25, 2021
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 26, 2020	Sep. 25, 2021
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 26, 2020	Sep. 25, 2021
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 26, 2020	Sep. 25, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission $\leq$ 1GHz	± 3.96 dB
Radiated emission $>$ 1GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH03-WS	23-24°C / 61-66%	Roger Lu Brad Wu

2.2 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807A
- CAB identifier: TW2732

2.3 The Worst Test Modes and Channel Details

Test item	Radiated Emissions
For model GML840U-915U	
Test Mode (POE mode)	Mode 1a: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 2a: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 3a: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 4a: WCDMA B2, RMC, ch9538(1907.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 5a: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 6a: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
Test Mode (DC mode)	Mode 1b: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 2b: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 3b: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 4b: WCDMA B2, RMC, ch9538(1907.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 5b: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
	Mode 6b: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
For model GME840U-915U	
Test Mode (POE mode)	Mode 7a: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
Test Mode (DC mode)	Mode 7b: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6
NOTE: - The selected channel is the maximum power channel of wireless mode. - This device consumes power from POE or DC power source. Each power supply was selected for final testing.	

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions for Model: GME840U-915U

Table 1: Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9~90 kHz, 110~490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Limit of Unwanted Emissions for Model: GML840U-915U

Model: GML840U-915U shall meet below limit

1. Table 1 limit
2. -13 dBm for spurious emission is caused by the simultaneous operation(Wi-Fi+Lora+WWAN)
(The limit is the highest level allowed by either rule part)

3.1.3 Test Procedures

Model: GME840U-915U / GML840U-915U

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

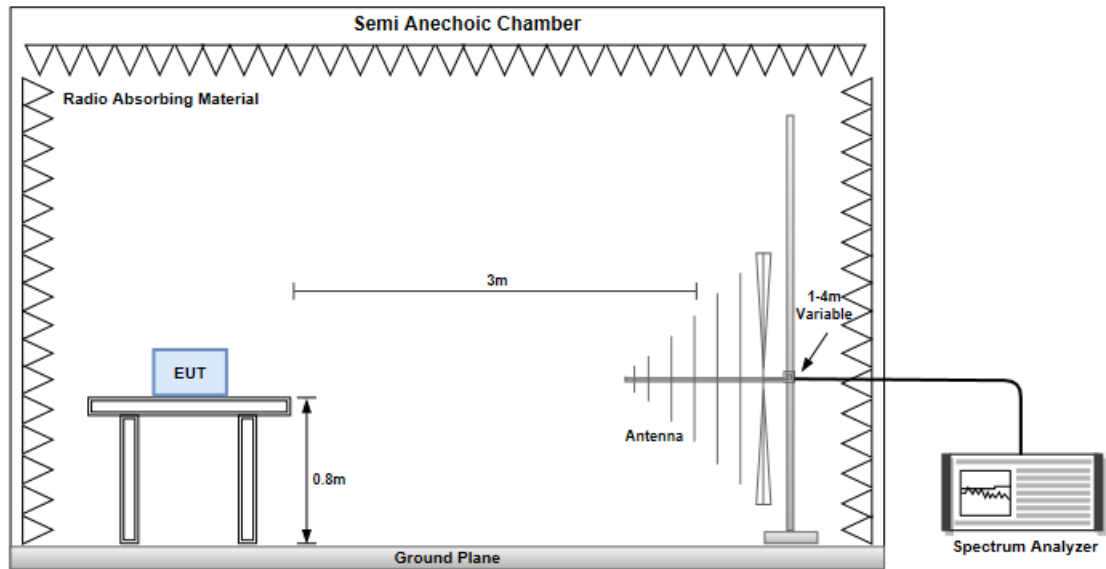
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

Model: GML840U-915U

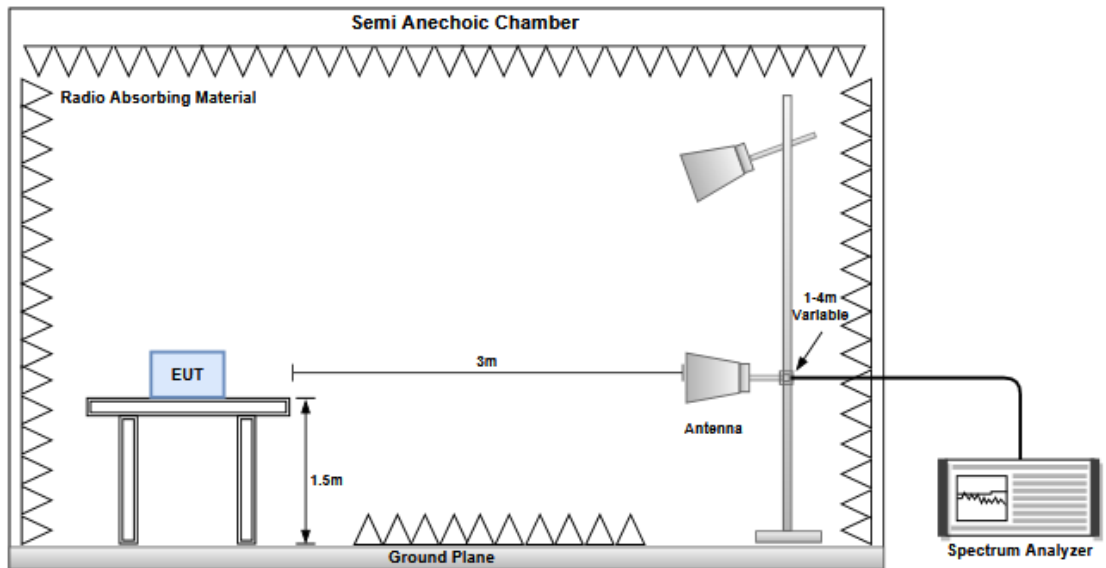
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable. ERP can be calculated by below formula:
$$E.R.P = E.I.R.P - 2.15dB.$$

3.1.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Test mode 1a – POE mode

3.1.5 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 1a: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
Level (dBUV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>38.65</td><td>32.45</td><td>40.00</td><td>-7.55</td><td>41.47</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>79.52</td><td>34.45</td><td>40.00</td><td>-5.55</td><td>47.80</td><td>-13.35</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>208.00</td><td>29.02</td><td>43.50</td><td>-14.48</td><td>41.22</td><td>-12.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>222.40</td><td>29.34</td><td>46.00</td><td>-16.66</td><td>41.74</td><td>-12.40</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>249.60</td><td>33.65</td><td>46.00</td><td>-12.35</td><td>43.83</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>319.20</td><td>29.27</td><td>46.00</td><td>-16.73</td><td>37.24</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	38.65	32.45	40.00	-7.55	41.47	-9.02	Peak	---	---	2	79.52	34.45	40.00	-5.55	47.80	-13.35	Peak	---	---	3	208.00	29.02	43.50	-14.48	41.22	-12.20	Peak	---	---	4	222.40	29.34	46.00	-16.66	41.74	-12.40	Peak	---	---	5	249.60	33.65	46.00	-12.35	43.83	-10.18	Peak	---	---	6	319.20	29.27	46.00	-16.73	37.24	-7.97	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															

3.1.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)

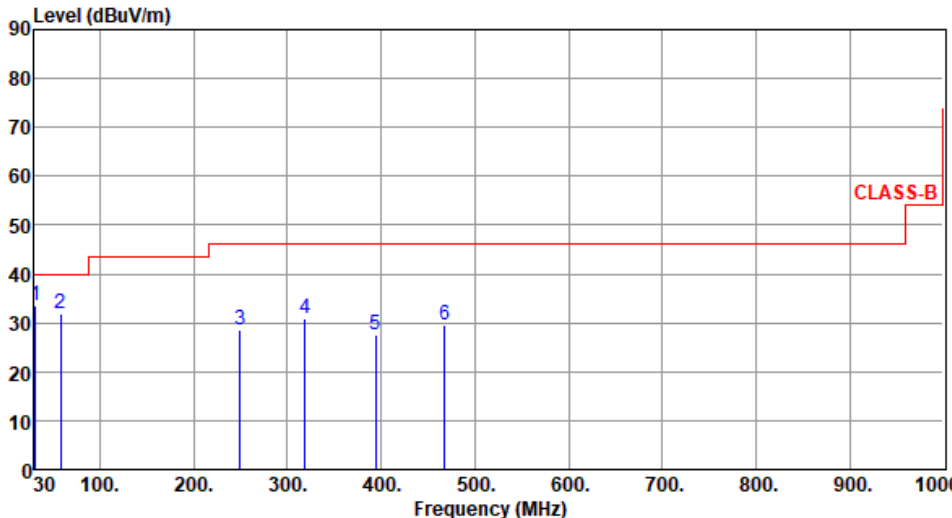
Mode	Mode 1a: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1705.27	H	-45.29	-13.00	-32.29	-49.58	-49.20	6.06
3260.81	H	-69.02	-13.00	-56.02	-79.36	-73.77	6.90
1705.27	V	-43.62	-13.00	-30.62	-47.97	-47.53	6.06
3260.81	V	-63.10	-13.00	-50.10	-73.45	-67.85	6.90

NOTE: ERP = S.G power value + correction factor - 2.15.

Test mode 1b – DC mode

3.1.7 Transmitter Radiated Unwanted Emissions (Below 1GHz)

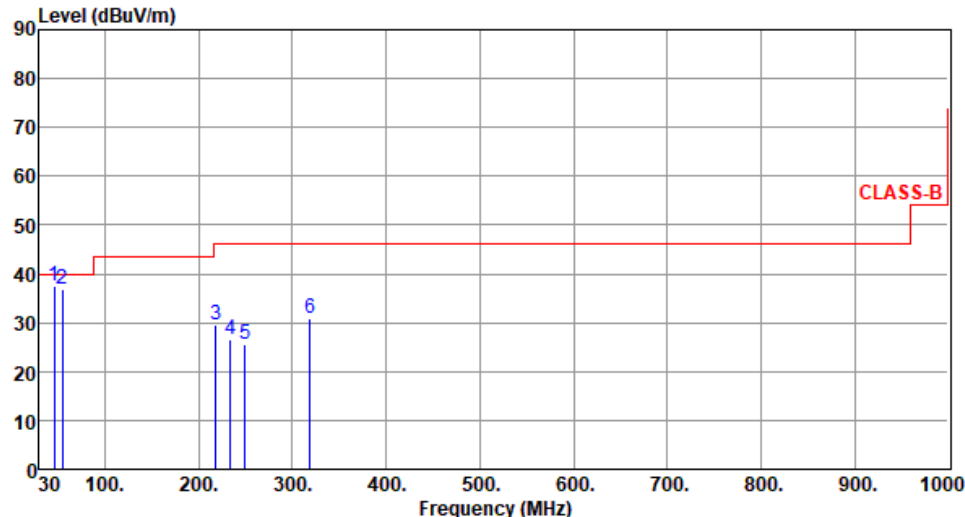
Mode	Mode 1b: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>33.79</td><td>28.33</td><td>40.00</td><td>-11.67</td><td>38.35</td><td>-10.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>108.61</td><td>25.33</td><td>43.50</td><td>-18.17</td><td>37.65</td><td>-12.32</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>209.60</td><td>25.97</td><td>43.50</td><td>-17.53</td><td>38.16</td><td>-12.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.60</td><td>31.98</td><td>46.00</td><td>-14.02</td><td>42.16</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>319.20</td><td>27.12</td><td>46.00</td><td>-18.88</td><td>35.09</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>470.40</td><td>29.78</td><td>46.00</td><td>-16.22</td><td>33.43</td><td>-3.65</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	33.79	28.33	40.00	-11.67	38.35	-10.02	Peak	---	---	2	108.61	25.33	43.50	-18.17	37.65	-12.32	Peak	---	---	3	209.60	25.97	43.50	-17.53	38.16	-12.19	Peak	---	---	4	249.60	31.98	46.00	-14.02	42.16	-10.18	Peak	---	---	5	319.20	27.12	46.00	-18.88	35.09	-7.97	Peak	---	---	6	470.40	29.78	46.00	-16.22	33.43	-3.65	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	33.79	28.33	40.00	-11.67	38.35	-10.02	Peak	---	---																																																																						
2	108.61	25.33	43.50	-18.17	37.65	-12.32	Peak	---	---																																																																						
3	209.60	25.97	43.50	-17.53	38.16	-12.19	Peak	---	---																																																																						
4	249.60	31.98	46.00	-14.02	42.16	-10.18	Peak	---	---																																																																						
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Mode	Mode 1b: LTE B13, BW10MHz, QPSK, CH23230(782MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Vertical																																																																																																		
Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>31.26</td><td>33.42</td><td>40.00</td><td>-6.58</td><td>43.49</td><td>-10.07</td><td>QP</td><td>100</td><td>18</td></tr><tr><td>2</td><td>58.25</td><td>32.02</td><td>40.00</td><td>-7.98</td><td>41.21</td><td>-9.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.60</td><td>28.52</td><td>46.00</td><td>-17.48</td><td>38.70</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>319.20</td><td>30.92</td><td>46.00</td><td>-15.08</td><td>38.89</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>394.40</td><td>27.69</td><td>46.00</td><td>-18.31</td><td>33.64</td><td>-5.95</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>468.00</td><td>29.58</td><td>46.00</td><td>-16.42</td><td>33.27</td><td>-3.69</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	31.26	33.42	40.00	-6.58	43.49	-10.07	QP	100	18	2	58.25	32.02	40.00	-7.98	41.21	-9.19	Peak	---	---	3	249.60	28.52	46.00	-17.48	38.70	-10.18	Peak	---	---	4	319.20	30.92	46.00	-15.08	38.89	-7.97	Peak	---	---	5	394.40	27.69	46.00	-18.31	33.64	-5.95	Peak	---	---	6	468.00	29.58	46.00	-16.42	33.27	-3.69	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
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1	31.26	33.42	40.00	-6.58	43.49	-10.07	QP	100	18																																																																																										
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Test mode 2a – POE mode

3.1.8 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 2a: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>38.45</td><td>31.52</td><td>40.00</td><td>-8.48</td><td>40.56</td><td>-9.04</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>79.52</td><td>35.07</td><td>40.00</td><td>-4.93</td><td>48.42</td><td>-13.35</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>218.40</td><td>30.36</td><td>46.00</td><td>-15.64</td><td>42.66</td><td>-12.30</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.60</td><td>33.66</td><td>46.00</td><td>-12.34</td><td>43.84</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>319.20</td><td>28.21</td><td>46.00</td><td>-17.79</td><td>36.18</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>375.20</td><td>28.04</td><td>46.00</td><td>-17.96</td><td>34.53</td><td>-6.49</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	38.45	31.52	40.00	-8.48	40.56	-9.04	Peak	---	---	2	79.52	35.07	40.00	-4.93	48.42	-13.35	Peak	---	---	3	218.40	30.36	46.00	-15.64	42.66	-12.30	Peak	---	---	4	249.60	33.66	46.00	-12.34	43.84	-10.18	Peak	---	---	5	319.20	28.21	46.00	-17.79	36.18	-7.97	Peak	---	---	6	375.20	28.04	46.00	-17.96	34.53	-6.49	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	38.45	31.52	40.00	-8.48	40.56	-9.04	Peak	---	---																																																																						
2	79.52	35.07	40.00	-4.93	48.42	-13.35	Peak	---	---																																																																						
3	218.40	30.36	46.00	-15.64	42.66	-12.30	Peak	---	---																																																																						
4	249.60	33.66	46.00	-12.34	43.84	-10.18	Peak	---	---																																																																						
5	319.20	28.21	46.00	-17.79	36.18	-7.97	Peak	---	---																																																																						
6	375.20	28.04	46.00	-17.96	34.53	-6.49	Peak	---	---																																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															

Mode	Mode 2a: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Vertical																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
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1	45.61	37.62	40.00	-2.38	46.35	-8.73	QP	166	318																																																																																										
2	54.22	36.72	40.00	-3.28	45.66	-8.94	QP	100	244																																																																																										
3	218.40	29.54	46.00	-16.46	41.84	-12.30	Peak	---	---																																																																																										
4	233.60	26.72	46.00	-19.28	37.93	-11.21	Peak	---	---																																																																																										
5	249.60	25.67	46.00	-20.33	35.85	-10.18	Peak	---	---																																																																																										
6	319.20	30.99	46.00	-15.01	38.96	-7.97	Peak	---	---																																																																																										
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3.1.9 Transmitter Radiated Unwanted Emissions (Above 1GHz)

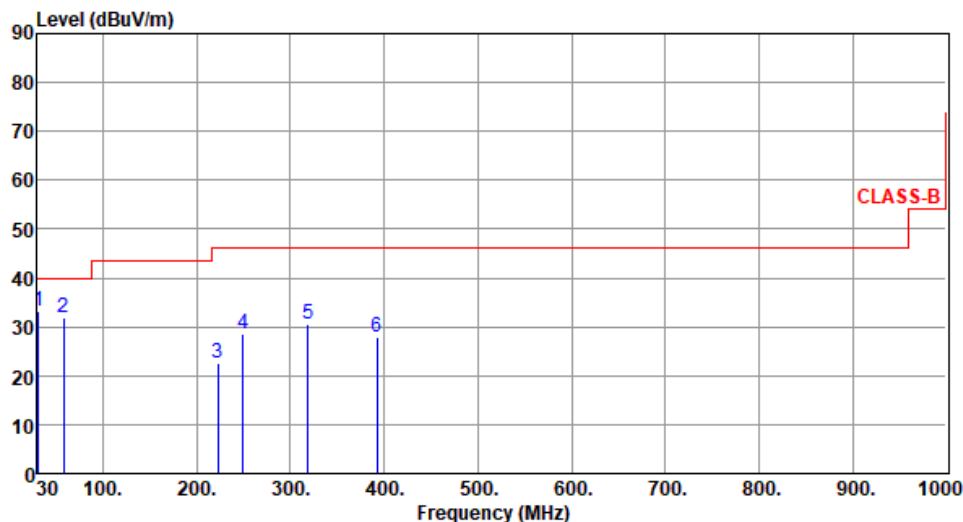
Mode	Mode 2a: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1018.60	H	-43.57	-13.00	-30.57	-43.65	-44.31	2.89
1763.90	H	-53.83	-13.00	-40.83	-58.45	-57.98	6.30
1018.60	V	-34.59	-13.00	-21.59	-33.73	-35.33	2.89
1763.90	V	-49.37	-13.00	-36.37	-53.99	-53.52	6.30

NOTE: ERP = S.G power value + correction factor - 2.15.

Test mode 2b – DC mode

3.1.10 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 2b: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBUV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>30.48</td><td>28.27</td><td>40.00</td><td>-11.73</td><td>38.44</td><td>-10.17</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>108.61</td><td>25.30</td><td>43.50</td><td>-18.20</td><td>37.62</td><td>-12.32</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>209.60</td><td>25.84</td><td>43.50</td><td>-17.66</td><td>38.03</td><td>-12.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.60</td><td>31.88</td><td>46.00</td><td>-14.12</td><td>42.06</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>319.20</td><td>27.16</td><td>46.00</td><td>-18.84</td><td>35.13</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>436.80</td><td>28.85</td><td>46.00</td><td>-17.15</td><td>33.36</td><td>-4.51</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.48	28.27	40.00	-11.73	38.44	-10.17	Peak	---	---	2	108.61	25.30	43.50	-18.20	37.62	-12.32	Peak	---	---	3	209.60	25.84	43.50	-17.66	38.03	-12.19	Peak	---	---	4	249.60	31.88	46.00	-14.12	42.06	-10.18	Peak	---	---	5	319.20	27.16	46.00	-18.84	35.13	-7.97	Peak	---	---	6	436.80	28.85	46.00	-17.15	33.36	-4.51	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	30.48	28.27	40.00	-11.73	38.44	-10.17	Peak	---	---																																																																						
2	108.61	25.30	43.50	-18.20	37.62	-12.32	Peak	---	---																																																																						
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4	249.60	31.88	46.00	-14.12	42.06	-10.18	Peak	---	---																																																																						
5	319.20	27.16	46.00	-18.84	35.13	-7.97	Peak	---	---																																																																						
6	436.80	28.85	46.00	-17.15	33.36	-4.51	Peak	---	---																																																																						
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															

Mode	Mode 2b: WCDMA B5, RMC, ch4182(836.4MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Vertical																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBUV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>30.86</td><td>33.33</td><td>40.00</td><td>-6.67</td><td>43.43</td><td>-10.10</td><td>QP</td><td>100</td><td>22</td></tr><tr><td>2</td><td>58.21</td><td>32.02</td><td>40.00</td><td>-7.98</td><td>41.21</td><td>-9.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>222.40</td><td>22.46</td><td>46.00</td><td>-23.54</td><td>34.86</td><td>-12.40</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.60</td><td>28.48</td><td>46.00</td><td>-17.52</td><td>38.66</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>319.20</td><td>30.46</td><td>46.00</td><td>-15.54</td><td>38.43</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>392.80</td><td>27.76</td><td>46.00</td><td>-18.24</td><td>33.74</td><td>-5.98</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.86	33.33	40.00	-6.67	43.43	-10.10	QP	100	22	2	58.21	32.02	40.00	-7.98	41.21	-9.19	Peak	---	---	3	222.40	22.46	46.00	-23.54	34.86	-12.40	Peak	---	---	4	249.60	28.48	46.00	-17.52	38.66	-10.18	Peak	---	---	5	319.20	30.46	46.00	-15.54	38.43	-7.97	Peak	---	---	6	392.80	27.76	46.00	-18.24	33.74	-5.98	Peak	---	---
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															

Test mode 3a – POE mode

3.1.11 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 3a: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
Level (dBUV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>38.65</td><td>32.46</td><td>40.00</td><td>-7.54</td><td>41.48</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>79.61</td><td>35.06</td><td>40.00</td><td>-4.94</td><td>48.43</td><td>-13.37</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>209.60</td><td>29.05</td><td>43.50</td><td>-14.45</td><td>41.24</td><td>-12.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>218.40</td><td>30.38</td><td>46.00</td><td>-15.62</td><td>42.68</td><td>-12.30</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>249.60</td><td>31.94</td><td>46.00</td><td>-14.06</td><td>42.12</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>319.20</td><td>29.26</td><td>46.00</td><td>-16.74</td><td>37.23</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	38.65	32.46	40.00	-7.54	41.48	-9.02	Peak	---	---	2	79.61	35.06	40.00	-4.94	48.43	-13.37	Peak	---	---	3	209.60	29.05	43.50	-14.45	41.24	-12.19	Peak	---	---	4	218.40	30.38	46.00	-15.62	42.68	-12.30	Peak	---	---	5	249.60	31.94	46.00	-14.06	42.12	-10.18	Peak	---	---	6	319.20	29.26	46.00	-16.74	37.23	-7.97	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
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Mode	Mode 3a: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Vertical																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBUV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>45.66</td><td>37.63</td><td>40.00</td><td>-2.37</td><td>46.35</td><td>-8.72</td><td>QP</td><td>162</td><td>313</td></tr><tr><td>2</td><td>54.22</td><td>36.80</td><td>40.00</td><td>-3.20</td><td>45.74</td><td>-8.94</td><td>QP</td><td>100</td><td>243</td></tr><tr><td>3</td><td>200.00</td><td>28.83</td><td>43.50</td><td>-14.67</td><td>40.95</td><td>-12.12</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>220.00</td><td>30.07</td><td>46.00</td><td>-15.93</td><td>42.43</td><td>-12.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>249.60</td><td>25.23</td><td>46.00</td><td>-20.77</td><td>35.41</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>319.20</td><td>31.19</td><td>46.00</td><td>-14.81</td><td>39.16</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	45.66	37.63	40.00	-2.37	46.35	-8.72	QP	162	313	2	54.22	36.80	40.00	-3.20	45.74	-8.94	QP	100	243	3	200.00	28.83	43.50	-14.67	40.95	-12.12	Peak	---	---	4	220.00	30.07	46.00	-15.93	42.43	-12.36	Peak	---	---	5	249.60	25.23	46.00	-20.77	35.41	-10.18	Peak	---	---	6	319.20	31.19	46.00	-14.81	39.16	-7.97	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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2	54.22	36.80	40.00	-3.20	45.74	-8.94	QP	100	243																																																																						
3	200.00	28.83	43.50	-14.67	40.95	-12.12	Peak	---	---																																																																						
4	220.00	30.07	46.00	-15.93	42.43	-12.36	Peak	---	---																																																																						
5	249.60	25.23	46.00	-20.77	35.41	-10.18	Peak	---	---																																																																						
6	319.20	31.19	46.00	-14.81	39.16	-7.97	Peak	---	---																																																																						
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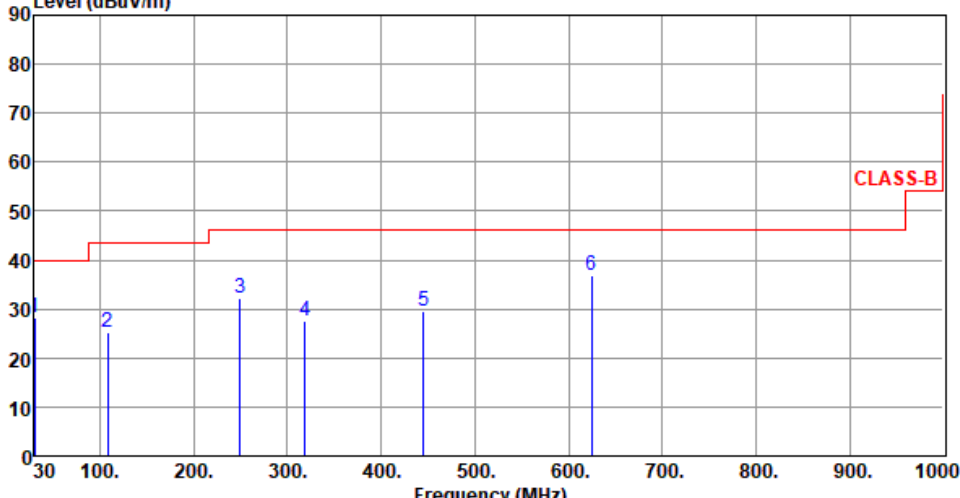
3.1.12 Transmitter Radiated Unwanted Emissions (Above 1GHz)

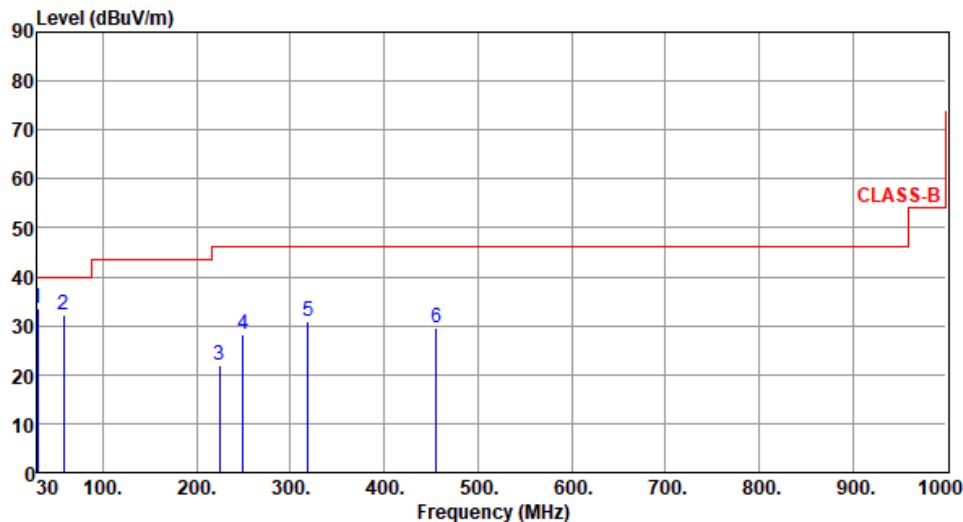
Mode	Mode 3a: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2577.70	H	-42.70	-13.00	-29.70	-53.29	-49.40	6.70
2680.10	H	-42.09	-13.00	-29.09	-53.04	-48.75	6.66
2577.70	V	-42.33	-13.00	-29.33	-52.91	-49.03	6.70
2680.10	V	-41.33	-13.00	-28.33	-52.43	-47.99	6.66

Note: EIRP = S.G Power value + Correction factor.

Test mode 3b – DC mode

3.1.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 3b: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBuV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>30.25</td><td>28.23</td><td>40.00</td><td>-11.77</td><td>38.46</td><td>-10.23</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>108.46</td><td>25.30</td><td>43.50</td><td>-18.20</td><td>37.65</td><td>-12.35</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.60</td><td>32.05</td><td>46.00</td><td>-13.95</td><td>42.23</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>319.20</td><td>27.63</td><td>46.00</td><td>-18.37</td><td>35.60</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>445.60</td><td>29.50</td><td>46.00</td><td>-16.50</td><td>33.44</td><td>-3.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>624.60</td><td>36.86</td><td>46.00</td><td>-9.14</td><td>36.91</td><td>-0.05</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.25	28.23	40.00	-11.77	38.46	-10.23	Peak	---	---	2	108.46	25.30	43.50	-18.20	37.65	-12.35	Peak	---	---	3	249.60	32.05	46.00	-13.95	42.23	-10.18	Peak	---	---	4	319.20	27.63	46.00	-18.37	35.60	-7.97	Peak	---	---	5	445.60	29.50	46.00	-16.50	33.44	-3.94	Peak	---	---	6	624.60	36.86	46.00	-9.14	36.91	-0.05	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	30.25	28.23	40.00	-11.77	38.46	-10.23	Peak	---	---																																																																						
2	108.46	25.30	43.50	-18.20	37.65	-12.35	Peak	---	---																																																																						
3	249.60	32.05	46.00	-13.95	42.23	-10.18	Peak	---	---																																																																						
4	319.20	27.63	46.00	-18.37	35.60	-7.97	Peak	---	---																																																																						
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Mode	Mode 3b: WCDMA B4, RMC, ch1513(1752.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
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Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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Test mode 4a – POE mode

3.1.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 4a: WCDMA B2, RMC, ch9538(1907.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
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Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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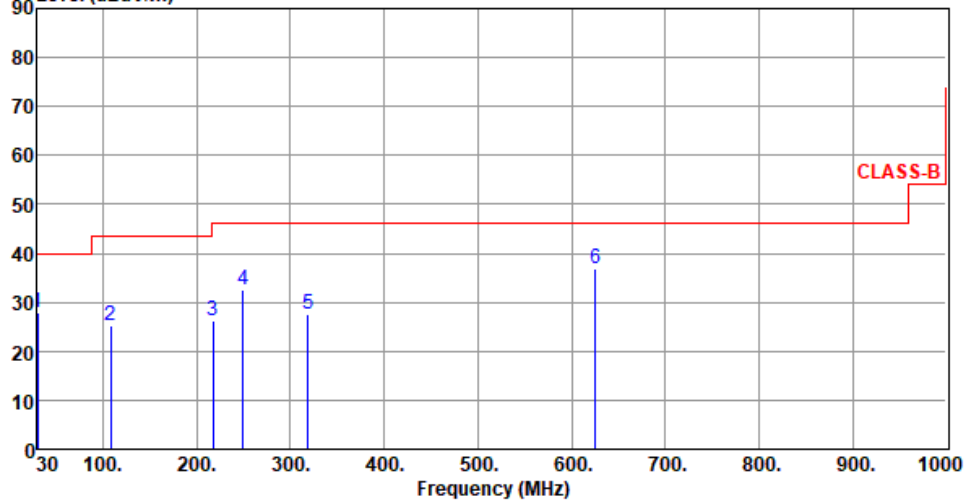
3.1.15 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Mode		Mode 4a: WCDMA B2, RMC, ch9538(1907.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2835.10	H	-41.08	-13.00	-28.08	-52.42	-47.55	6.47
2887.70	H	-41.16	-13.00	-28.16	-52.63	-47.60	6.44
2835.10	V	-39.93	-13.00	-26.93	-51.58	-46.40	6.47
2887.70	V	-40.16	-13.00	-27.16	-51.80	-46.60	6.44

Note: EIRP = S.G Power value + Correction factor.

Test mode 4b – DC mode

3.1.16 Transmitter Radiated Unwanted Emissions (Below 1GHz)

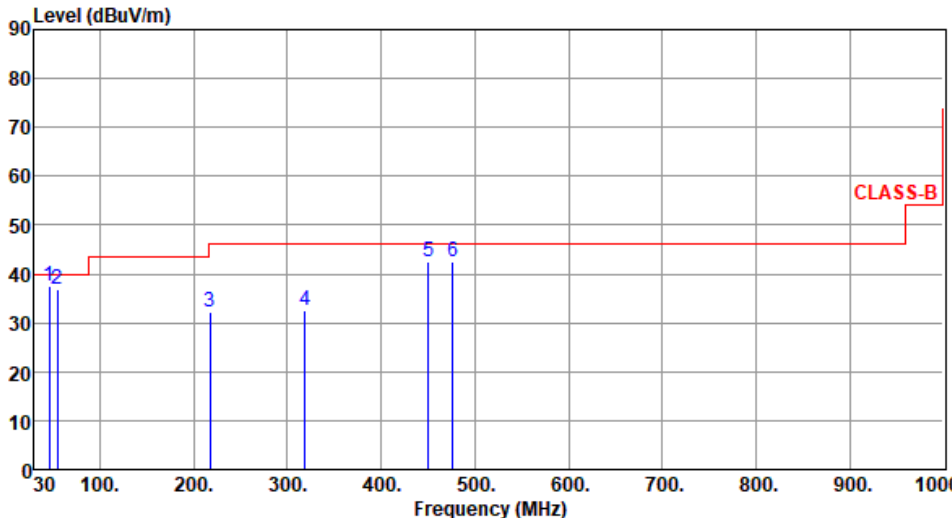
Mode	Mode 4b: WCDMA B2, RMC, ch9538(1907.6MHz) + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
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Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
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Test mode 5a – POE mode

3.1.17 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 5a: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>38.64</td><td>32.46</td><td>40.00</td><td>-7.54</td><td>41.48</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>79.56</td><td>35.32</td><td>40.00</td><td>-4.68</td><td>48.68</td><td>-13.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.60</td><td>33.00</td><td>46.00</td><td>-13.00</td><td>43.18</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>319.20</td><td>30.09</td><td>46.00</td><td>-15.91</td><td>38.06</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>450.40</td><td>39.15</td><td>46.00</td><td>-6.85</td><td>43.23</td><td>-4.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>476.80</td><td>33.01</td><td>46.00</td><td>-12.99</td><td>36.60</td><td>-3.59</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	38.64	32.46	40.00	-7.54	41.48	-9.02	Peak	---	---	2	79.56	35.32	40.00	-4.68	48.68	-13.36	Peak	---	---	3	249.60	33.00	46.00	-13.00	43.18	-10.18	Peak	---	---	4	319.20	30.09	46.00	-15.91	38.06	-7.97	Peak	---	---	5	450.40	39.15	46.00	-6.85	43.23	-4.08	Peak	---	---	6	476.80	33.01	46.00	-12.99	36.60	-3.59	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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2	79.56	35.32	40.00	-4.68	48.68	-13.36	Peak	---	---																																																																						
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Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>45.89</td><td>37.64</td><td>40.00</td><td>-2.36</td><td>46.31</td><td>-8.67</td><td>QP</td><td>161</td><td>317</td></tr><tr><td>2</td><td>54.26</td><td>36.81</td><td>40.00</td><td>-3.19</td><td>45.76</td><td>-8.95</td><td>QP</td><td>100</td><td>247</td></tr><tr><td>3</td><td>217.60</td><td>32.17</td><td>46.00</td><td>-13.83</td><td>44.43</td><td>-12.26</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>319.20</td><td>32.56</td><td>46.00</td><td>-13.44</td><td>40.53</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>450.40</td><td>42.38</td><td>46.00</td><td>-3.62</td><td>46.46</td><td>-4.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>476.80</td><td>42.61</td><td>46.00</td><td>-3.39</td><td>46.20</td><td>-3.59</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	45.89	37.64	40.00	-2.36	46.31	-8.67	QP	161	317	2	54.26	36.81	40.00	-3.19	45.76	-8.95	QP	100	247	3	217.60	32.17	46.00	-13.83	44.43	-12.26	Peak	---	---	4	319.20	32.56	46.00	-13.44	40.53	-7.97	Peak	---	---	5	450.40	42.38	46.00	-3.62	46.46	-4.08	Peak	---	---	6	476.80	42.61	46.00	-3.39	46.20	-3.59	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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3.1.18 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Mode	Mode 5a: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1378.27	H	-47.11	-40.00	-7.11	-52.64	-50.98	3.87
3233.27	H	-66.76	-40.00	-26.76	-79.31	-73.55	6.79
1378.27	V	-41.87	-40.00	-1.87	-47.15	-45.74	3.87
3233.27	V	-61.00	-40.00	-21.00	-73.56	-67.79	6.79

Note: EIRP = S.G Power value + Correction factor.

Test mode 5b – DC mode

3.1.19 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 5b: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
Level (dBuV/m) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.35</td><td>28.24</td><td>40.00</td><td>-11.76</td><td>38.45</td><td>-10.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>108.42</td><td>25.22</td><td>43.50</td><td>-18.28</td><td>37.58</td><td>-12.36</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>249.60</td><td>31.30</td><td>46.00</td><td>-14.70</td><td>41.48</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>319.20</td><td>28.36</td><td>46.00</td><td>-17.64</td><td>36.33</td><td>-7.97</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>450.40</td><td>31.79</td><td>46.00</td><td>-14.21</td><td>35.87</td><td>-4.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>476.80</td><td>31.99</td><td>46.00</td><td>-14.01</td><td>35.58</td><td>-3.59</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	30.35	28.24	40.00	-11.76	38.45	-10.21	Peak	---	---	2	108.42	25.22	43.50	-18.28	37.58	-12.36	Peak	---	---	3	249.60	31.30	46.00	-14.70	41.48	-10.18	Peak	---	---	4	319.20	28.36	46.00	-17.64	36.33	-7.97	Peak	---	---	5	450.40	31.79	46.00	-14.21	35.87	-4.08	Peak	---	---	6	476.80	31.99	46.00	-14.01	35.58	-3.59	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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Mode	Mode 5b: LTE B30, BW10MHz,QPSK,CH27710(2310MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6								
Polarization	Vertical								
Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65			
Level (dBuV/m)									

Test mode 6a – POE mode

3.1.20 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 6a: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
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Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																																																			
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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Mode	Mode 6a: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6								
Polarization	Vertical								
Test By		:Roger Lu		Temperature(°C):23			Humidity(%):65		
Level (dBuV/m) <									

3.1.21 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Mode	Mode 6a: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1663.33	H	-47.22	-25.00	-22.22	-53.43	-53.10	5.88
3518.30	H	-61.57	-25.00	-36.57	-74.25	-68.76	7.19
1663.33	V	-41.81	-25.00	-16.81	-48.12	-47.69	5.88
3518.30	V	-61.58	-25.00	-36.58	-74.16	-68.77	7.19

Note: EIRP = S.G Power value + Correction factor.

Test mode 6b – DC mode

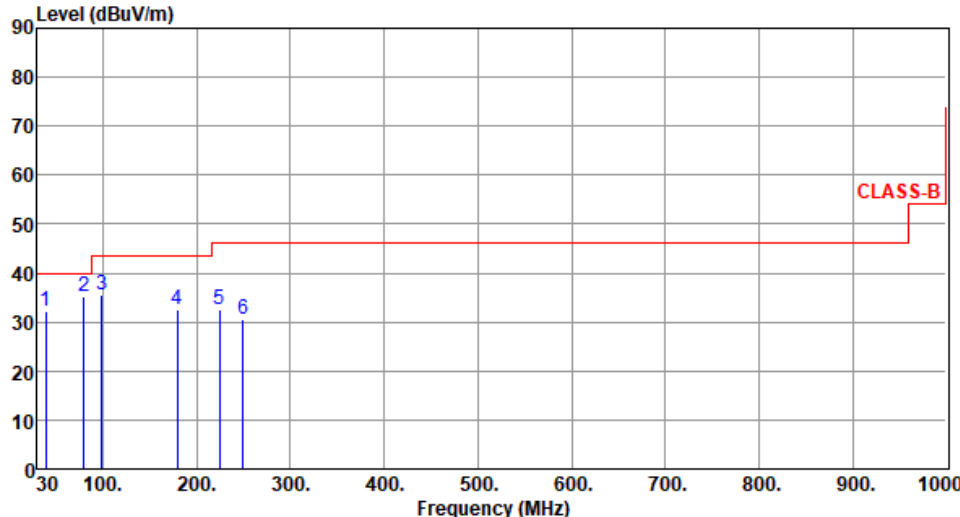
3.1.22 Transmitter Radiated Unwanted Emissions (Below 1GHz)

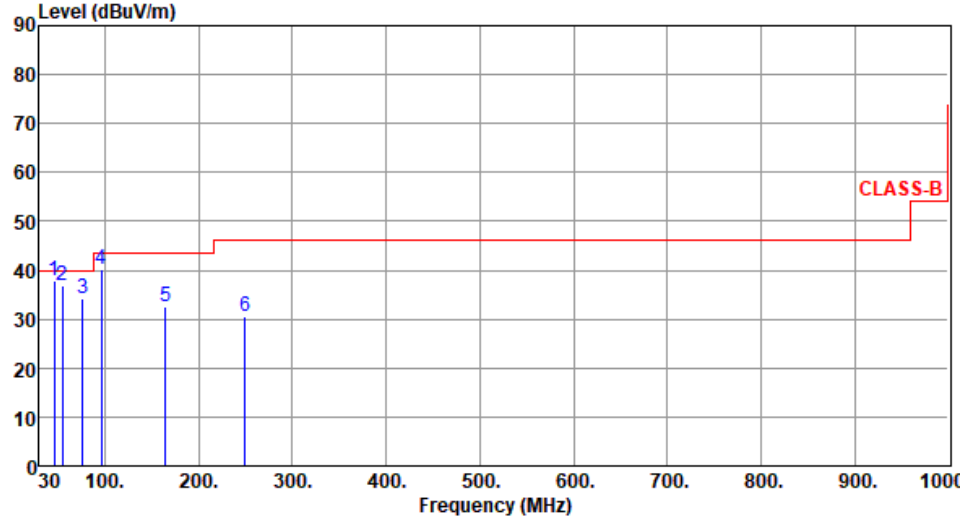
Mode	Mode 6b: LTE B41, BW5MHz, QPSK,CH40620(2593MHz),1rb offset 0 + LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
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Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																																															
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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Test By		:Roger Lu		Temperature(°C):23		Humidity(%):65																																																																																													
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
		dBuV/m			dBuV			cm	deg																																																																																										
1	30.47	33.44	40.00	-6.56	43.62	-10.18	QP	100	19																																																																																										
2	58.26	32.03	40.00	-7.97	41.22	-9.19	Peak	---	---																																																																																										
3	216.00	24.50	43.50	-19.00	36.71	-12.21	Peak	---	---																																																																																										
4	249.60	29.30	46.00	-16.70	39.48	-10.18	Peak	---	---																																																																																										
5	319.20	30.86	46.00	-15.14	38.83	-7.97	Peak	---	---																																																																																										
6	430.40	29.57	46.00	-16.43	34.37	-4.80	Peak	---	---																																																																																										
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																																			

Test mode 7a – POE mode

3.1.23 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 7a: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Horizontal																																																																																																		
Test By :Roger Lu Temperature(°C):23 Humidity(%):66																																																																																																			
Level (dBUV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>38.65</td><td>32.26</td><td>40.00</td><td>-7.74</td><td>41.28</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>79.58</td><td>35.35</td><td>40.00</td><td>-4.65</td><td>48.72</td><td>-13.37</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>98.79</td><td>35.68</td><td>43.50</td><td>-7.82</td><td>49.73</td><td>-14.05</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>179.42</td><td>32.49</td><td>43.50</td><td>-11.01</td><td>42.81</td><td>-10.32</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>224.05</td><td>32.67</td><td>46.00</td><td>-13.33</td><td>45.10</td><td>-12.43</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>249.39</td><td>30.54</td><td>46.00</td><td>-15.46</td><td>40.72</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	38.65	32.26	40.00	-7.74	41.28	-9.02	Peak	---	---	2	79.58	35.35	40.00	-4.65	48.72	-13.37	Peak	---	---	3	98.79	35.68	43.50	-7.82	49.73	-14.05	Peak	---	---	4	179.42	32.49	43.50	-11.01	42.81	-10.32	Peak	---	---	5	224.05	32.67	46.00	-13.33	45.10	-12.43	Peak	---	---	6	249.39	30.54	46.00	-15.46	40.72	-10.18	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
		dBuV/m			dBuV			cm	deg																																																																																										
1	38.65	32.26	40.00	-7.74	41.28	-9.02	Peak	---	---																																																																																										
2	79.58	35.35	40.00	-4.65	48.72	-13.37	Peak	---	---																																																																																										
3	98.79	35.68	43.50	-7.82	49.73	-14.05	Peak	---	---																																																																																										
4	179.42	32.49	43.50	-11.01	42.81	-10.32	Peak	---	---																																																																																										
5	224.05	32.67	46.00	-13.33	45.10	-12.43	Peak	---	---																																																																																										
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Mode	Mode 7a: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
Polarization	Vertical																																																																																																		
Test By :Roger Lu			Temperature(°C):23			Humidity(%):66																																																																																													
Level (dBuV/m)  <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>45.68</td><td>37.85</td><td>40.00</td><td>-2.15</td><td>46.56</td><td>-8.71</td><td>QP</td><td>169</td><td>315</td></tr><tr><td>2</td><td>54.49</td><td>36.75</td><td>40.00</td><td>-3.25</td><td>45.75</td><td>-9.00</td><td>QP</td><td>100</td><td>249</td></tr><tr><td>3</td><td>76.59</td><td>34.33</td><td>40.00</td><td>-5.67</td><td>46.98</td><td>-12.65</td><td>QP</td><td>100</td><td>29</td></tr><tr><td>4</td><td>95.85</td><td>40.31</td><td>43.50</td><td>-3.19</td><td>54.78</td><td>-14.47</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>164.79</td><td>32.65</td><td>43.50</td><td>-10.85</td><td>41.67</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>249.49</td><td>30.49</td><td>46.00</td><td>-15.51</td><td>40.67</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	45.68	37.85	40.00	-2.15	46.56	-8.71	QP	169	315	2	54.49	36.75	40.00	-3.25	45.75	-9.00	QP	100	249	3	76.59	34.33	40.00	-5.67	46.98	-12.65	QP	100	29	4	95.85	40.31	43.50	-3.19	54.78	-14.47	Peak	---	---	5	164.79	32.65	43.50	-10.85	41.67	-9.02	Peak	---	---	6	249.49	30.49	46.00	-15.51	40.67	-10.18	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																										
		dBuV/m			dBuV			cm	deg																																																																																										
1	45.68	37.85	40.00	-2.15	46.56	-8.71	QP	169	315																																																																																										
2	54.49	36.75	40.00	-3.25	45.75	-9.00	QP	100	249																																																																																										
3	76.59	34.33	40.00	-5.67	46.98	-12.65	QP	100	29																																																																																										
4	95.85	40.31	43.50	-3.19	54.78	-14.47	Peak	---	---																																																																																										
5	164.79	32.65	43.50	-10.85	41.67	-9.02	Peak	---	---																																																																																										
6	249.49	30.49	46.00	-15.51	40.67	-10.18	Peak	---	---																																																																																										
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3.1.24 Transmitter Radiated Unwanted Emissions (Above 1GHz)

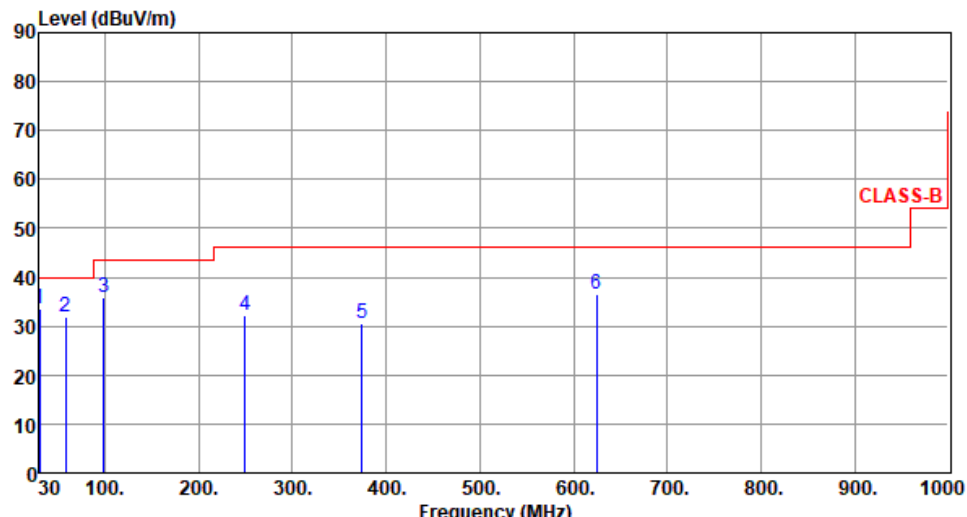
Mode	Mode 7a: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6								
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):24 Humidity(%):61									
Level (dBUV/m) </									

Mode	Mode 7a: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6								
Polarization	Vertical								
Test By		:Roger Lu		Temperature(°C):24			Humidity(%):61		
Level (dBUV/m) <									

Test mode 7b – DC mode

3.1.25 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Mode	Mode 7b: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																														
Polarization	Horizontal																																																																														
Test By :BRAD WU Temperature(°C):23 Humidity(%):66																																																																															
Level (dBUV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>30.15</td><td>28.22</td><td>40.00</td><td>-11.78</td><td>38.47</td><td>-10.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>108.61</td><td>25.24</td><td>43.50</td><td>-18.26</td><td>37.56</td><td>-12.32</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>149.49</td><td>25.43</td><td>43.50</td><td>-18.07</td><td>34.34</td><td>-8.91</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.33</td><td>35.75</td><td>46.00</td><td>-10.25</td><td>45.94</td><td>-10.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>437.58</td><td>28.76</td><td>46.00</td><td>-17.24</td><td>33.23</td><td>-4.47</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>624.59</td><td>37.34</td><td>46.00</td><td>-8.66</td><td>37.39</td><td>-0.05</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	30.15	28.22	40.00	-11.78	38.47	-10.25	Peak	---	---	2	108.61	25.24	43.50	-18.26	37.56	-12.32	Peak	---	---	3	149.49	25.43	43.50	-18.07	34.34	-8.91	Peak	---	---	4	249.33	35.75	46.00	-10.25	45.94	-10.19	Peak	---	---	5	437.58	28.76	46.00	-17.24	33.23	-4.47	Peak	---	---	6	624.59	37.34	46.00	-8.66	37.39	-0.05	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
1	30.15	28.22	40.00	-11.78	38.47	-10.25	Peak	---	---																																																																						
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Mode	Mode 7b: LoRa BW500KHz, 927.5MHz + WIFI 11g ch6																																																																																																		
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==