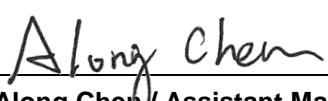


FCC Test Report

FCC ID : 2AX22-VNC0100201
Equipment : Cattle Rider
Model No. : VNC-01-00201
Brand Name : Vence
Applicant : Vence Corp
Address : 16885 West Bernardo Drive, San Diego, CA 92127
Standard : 47 CFR FCC Part 15.247
Received Date : Nov. 06, 2020
Tested Date : Dec. 01, 2020 ~ Jan. 07, 2021

We, International Certification Corporation, 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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Release Record

| Report No. | Version | Description | Issued Date |
|------------|---------|---------------|---------------|
| FR0N0603AH | Rev. 01 | Initial issue | Mar. 26, 2021 |

Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|-------------------------------------------------------------------------|------------------------|-----------------------------------------------------------|--------|
| 15.207 | Conducted Emissions | Note | N/A |
| 15.247(d) 15.209 | Radiated Emissions | [dBuV/m at 3m]: 2709.00MHz 45.93 (Margin -8.07dB) - AV | Pass |
| 15.247(b)(3) | Maximum Output Power | Max Power [dBm]: 21.22 | Pass |
| 15.247(a)(2) | 6dB Bandwidth | Meet the requirement of limit | Pass |
| 15.247(e) | Power Spectral Density | Meet the requirement of limit | Pass |
| 15.203 | Antenna Requirement | Meet the requirement of limit | Pass |
| Note: The EUT consumes power from battery, so the test is not required. | | | |

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 Specification of the Equipment under Test (EUT)

| RF General Information | | | | | |
|----------------------------------------------------------------------------------|-----------------|----------------|-----------------------------|---------------|-------------------------|
| Frequency Range (MHz) | Ch. Freq. (MHz) | Channel Number | Physical bit rate (bit/sec) | Spread Factor | Channel Bandwidth (kHz) |
| 902 ~ 928 | 903 ~ 914.2 | 65 ~ 72 [8] | 7000 | SF8 | 500 |
| Note 1: RF output power specifies that Maximum Conducted (Average) Output Power. | | | | | |
| Note 2: The device uses Lora modulation. | | | | | |

1.1.2 Antenna Details

| Ant. No. | Brand | Model | Type | Connector | Gain (dBi) |
|----------|-------|--------------|------|-----------|------------|
| 1 | Pulse | Larsen W3012 | Chip | N/A | -1.1 |

1.1.3 Power Supply Type of Equipment under Test (EUT)

| | |
|-------------------|--------|
| Power Supply Type | 3.6Vdc |
|-------------------|--------|

1.1.4 Accessories

N/A

1.1.5 Channel List

| Channel | Frequency(MHz) |
|---------|----------------|
| 65 | 903 |
| 66 | 904.6 |
| 67 | 906.2 |
| 68 | 907.8 |
| 69 | 909.4 |
| 70 | 911 |
| 71 | 912.6 |
| 72 | 914.2 |

1.1.6 Test Tool and Duty Cycle

| | | |
|-----------------------------------|------------------------------|-------------------------|
| Test Tool | cmd, version: 6.1.7601.17514 | |
| Duty Cycle and Duty Factor | Duty Cycle (%) | Duty Factor (dB) |
| | 100% | 0 |

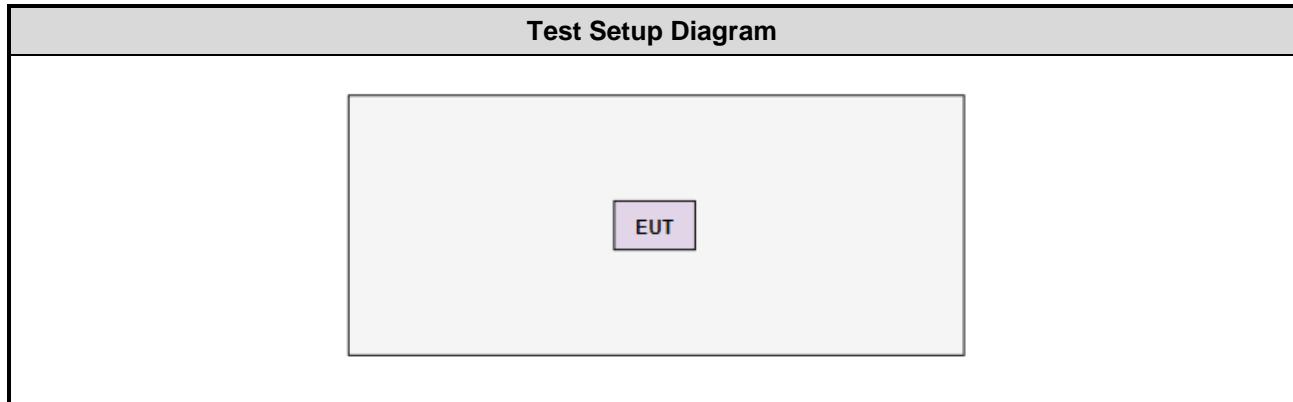
1.1.7 Power Setting

| Modulation Mode | Test Frequency (MHz) | | |
|------------------------|-----------------------------|--------------|--------------|
| | 903 | 907.8 | 914.2 |
| CSS | 22 | 22 | 22 |

1.2 Local Support Equipment List

| Support Equipment List | | | | | |
|------------------------|-------------|-------|----------------|--------|---------------------------|
| No. | Equipment | Brand | Model | FCC ID | Signal cable / Length (m) |
| 1 | Notebook | DELL | Latitude E5470 | DoC | --- |
| 2 | USB console | FTDI | TTL-232R-3V3 | --- | Provided by applicant. |

1.3 Test Setup Chart



Note: The notebook & USB console are disconnected from EUT and removed from test table after sending command from notebook to control EUT to transmit continuously.

1.4 The Equipment List

| Test Item | Radiated Emission | | | | |
|---------------------------------------------------------------------|-----------------------------|-----------------------|-------------------------|------------------|-------------------|
| Test Site | 966 chamber 3 / (03CH03-WS) | | | | |
| Tested Date | Dec. 01, 2020 | | | | |
| Instrument | Brand | Model No. | Serial No. | Calibration Date | Calibration Until |
| 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 1095 | Sep. 25, 2020 | Sep. 24, 2021 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 17, 2020 | Nov. 16, 2021 |
| 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 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Sep. 26, 2020 | Sep. 25, 2021 |
| RF cable-8M | EMC | EMC104-SM-SM-80 00 | 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-300 0 | 131103 | Sep. 26, 2020 | Sep. 25, 2021 |
| LF cable-13M | EMC | EMC8D-NM-NM-130 00 | 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. | | | | | |

| Test Item | RF Conducted | | | | |
|---------------------------------------------------------------------|---------------|------------------|-------------|------------------|-------------------|
| Test Site | (TH01-WS) | | | | |
| Tested Date | Jan. 07, 2021 | | | | |
| Instrument | Brand | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | R&S | FSV40 | 101063 | Apr. 30, 2020 | Apr. 29, 2021 |
| Spectrum Analyzer | R&S | FSV40 | 101499 | Jan. 09, 2020 | Jan. 08, 2021 |
| TEMP&HUMIDITY CHAMBER | GIANT FORCE | GCT-225-40-SP-SD | MAF1212-002 | May. 06, 2020 | May. 05, 2021 |
| Power Meter | Anritsu | ML2495A | 1241002 | Nov. 04, 2020 | Nov. 03, 2021 |
| Power Sensor | Anritsu | MA2411B | 1207366 | Nov. 04, 2020 | Nov. 03, 2021 |
| Signal Generator | R&S | SMB100A | 175727 | Jan. 07, 2021 | Jan. 06, 2022 |
| DC POWER SOURCE | GW INSTEK | GPC-6030D | GES855395 | Nov. 09, 2020 | Nov. 08, 2021 |
| Measurement Software | Sporton | Sporton_1 | 1.3.30 | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 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 |
| Bandwidth | ±34.130 Hz |
| Conducted power | ±0.808 dB |
| Power density | ±0.583 dB |
| Radiated emission ≤ 1GHz | ±3.96 dB |
| Radiated emission > 1GHz | ±4.51 dB |

2 Test Configuration

2.1 Testing Facility

| | |
|----------------------|----------------------------------------------------------------------------------------|
| Test Laboratory | International Certification Corporation |
| Test Site | TH01-WS |
| Address of Test Site | No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) |
| Test Site | 03CH03-WS |
| Address of Test Site | No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.) |

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

2.2 The Worst Test Modes and Channel Details

| Test item | Test Frequency (MHz) | Channel Bandwidth (kHz) | Modulation / SF | Test Configuration |
|--------------------------|----------------------|-------------------------|-----------------|--------------------|
| Conducted Emissions | | | | |
| Radiated Emissions >1GHz | | | | |
| Maximum Output Power | 903 / 907.8 / 914.2 | 500 | Lora / 8 | --- |
| 6dB Bandwidth | | | | |
| Power Spectral Density | | | | |
| Radiated Emissions ≤1GHz | 903 / 907.8 / 914.2 | 500 | Lora / 8 | --- |

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** result was found as the worst case and was shown in this report.

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

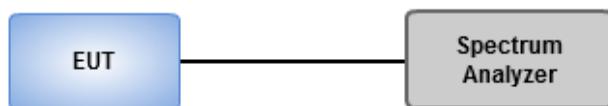
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 10kHz, Video bandwidth = 30kHz.
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

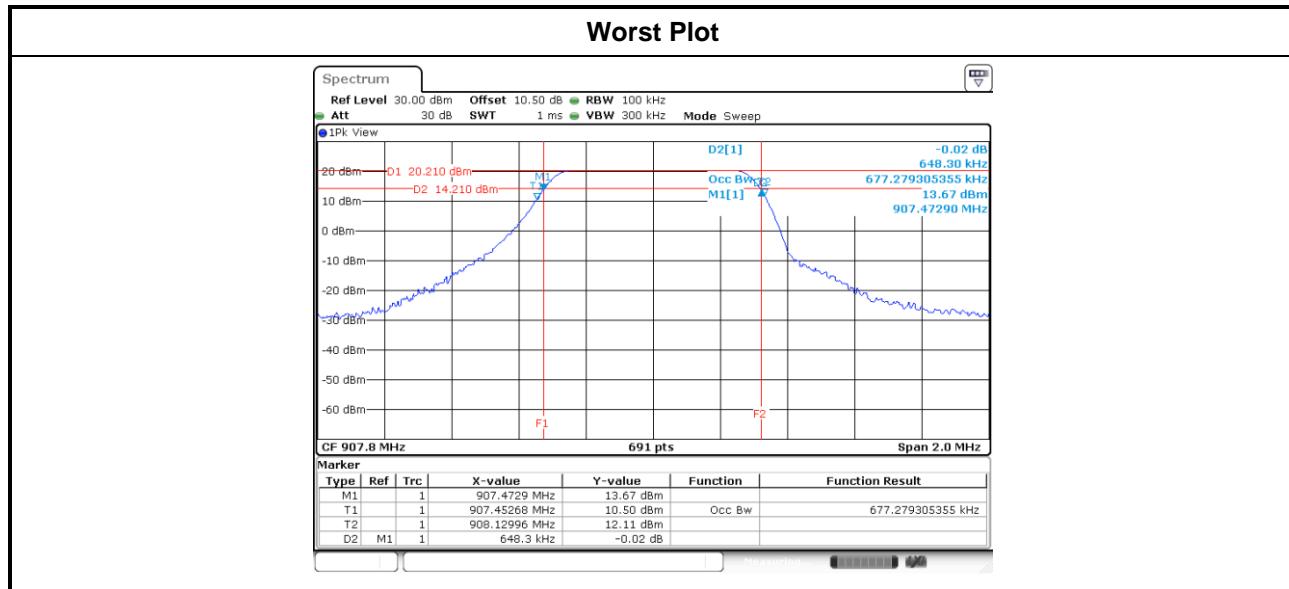
3.1.3 Test Setup



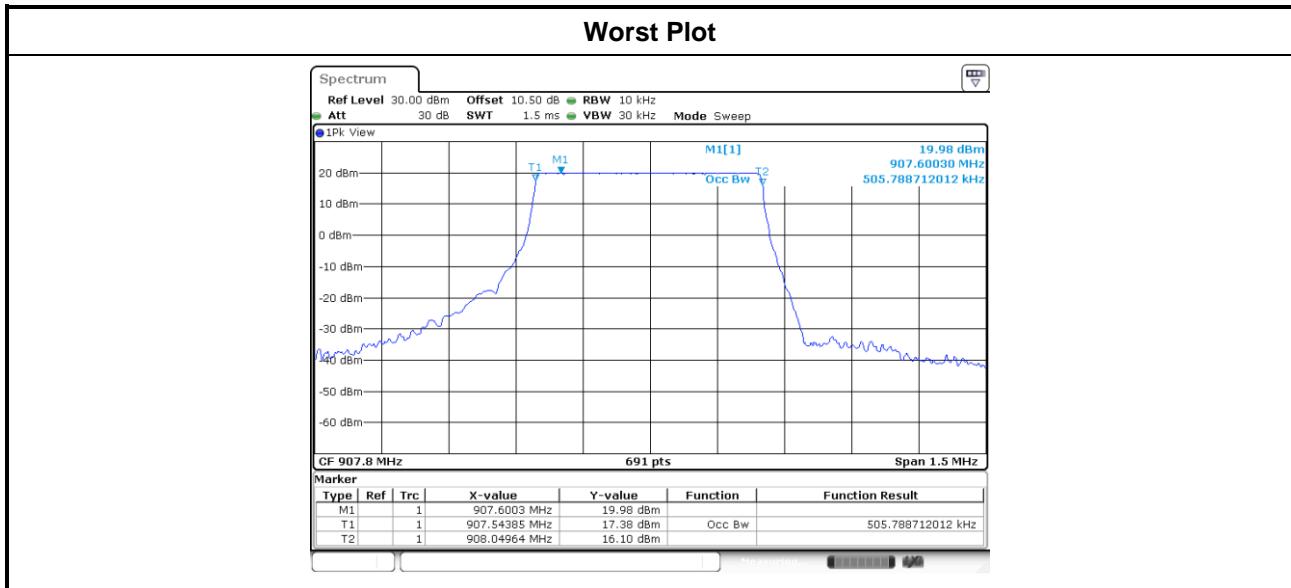
3.1.4 Test Result of 6dB and Occupied Bandwidth

| | | | |
|--------------------------|------------|------------------|---------|
| Ambient Condition | 22°C / 65% | Tested By | Brad Wu |
|--------------------------|------------|------------------|---------|

| Modulation / SF | Freq. (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|-----------------|-------------|---------------------|-------------|
| Lora / 8 | 903 | 0.643 | 0.5 |
| Lora / 8 | 907.8 | 0.648 | 0.5 |
| Lora / 8 | 914.2 | 0.648 | 0.5 |



| Modulation / SF | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |
|-----------------|-------------|------------------------------|
| Lora / 8 | 903 | 0.504 |
| Lora / 8 | 907.8 | 0.506 |
| Lora / 8 | 914.2 | 0.504 |



3.2 RF Output Power

3.2.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

- Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.
- Antenna gain > 6dBi

Transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

3.2.2 Test Procedures

- Maximum Peak Conducted Output Power
 - Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - Power meter**
 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Output Power
 - Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Result of Maximum Output Power

| | | | |
|-------------------|------------|-----------|---------|
| Ambient Condition | 22°C / 65% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|

| Modulation / SF | Freq. (MHz) | Output Power (mW) | Output Power (dBm) | Limit (dBm) |
|-----------------|-------------|-------------------|--------------------|-------------|
| Lora / 8 | 903 | 132.4342 | 21.22 | 30 |
| Lora / 8 | 907.8 | 129.1219 | 21.11 | 30 |
| Lora / 8 | 914.2 | 124.7384 | 20.96 | 30 |

3.3 Power Spectral Density

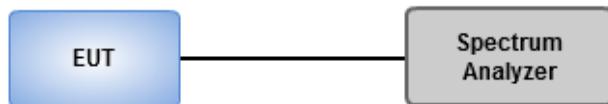
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Employ trace averaging (RMS) mode over a minimum of 100 traces
4. Use the peak marker function to determine the maximum amplitude level.

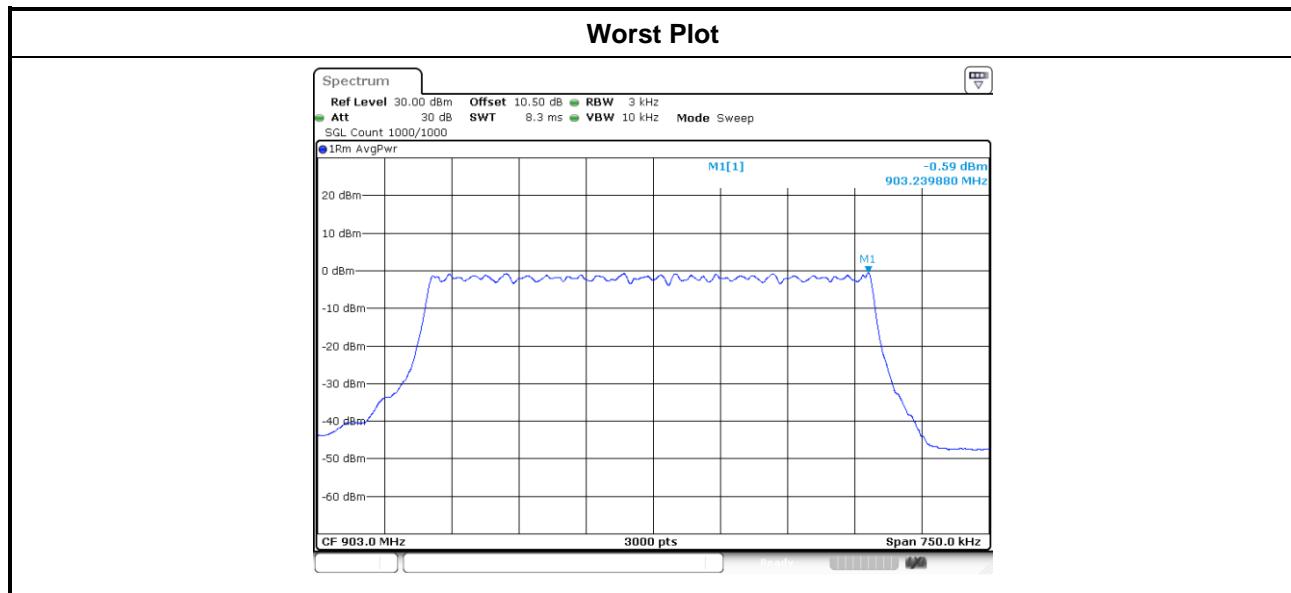
3.3.3 Test Setup



3.3.4 Test Result of Power Spectral Density

| | | | |
|-------------------|------------|-----------|---------|
| Ambient Condition | 22°C / 65% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|

| Modulation / SF | Freq. (MHz) | Total Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|-----------------|-------------|-----------------------------------------|------------------|
| Lora / 8 | 903 | -0.59 | 8.00 |
| Lora / 8 | 907.8 | -0.81 | 8.00 |
| Lora / 8 | 914.2 | -1.30 | 8.00 |



3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| 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:
Quasi-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.

3.4.2 Test Procedures

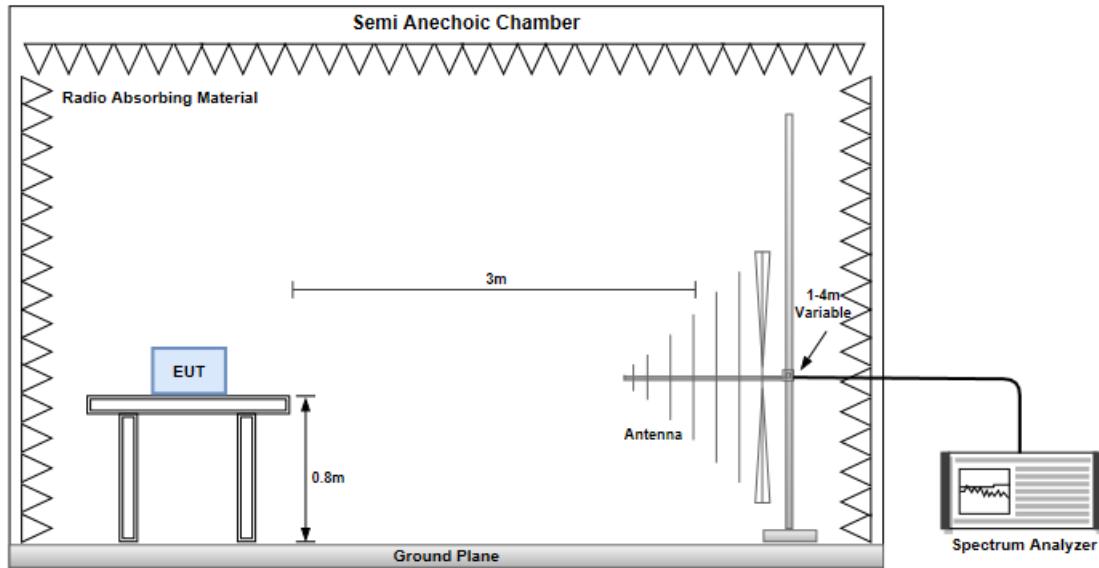
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

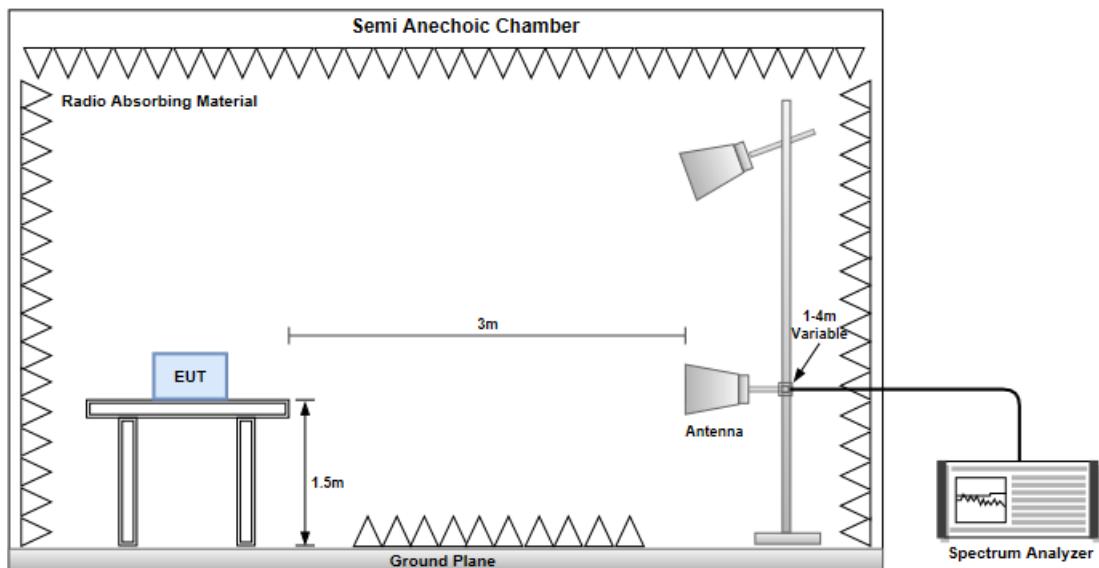
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

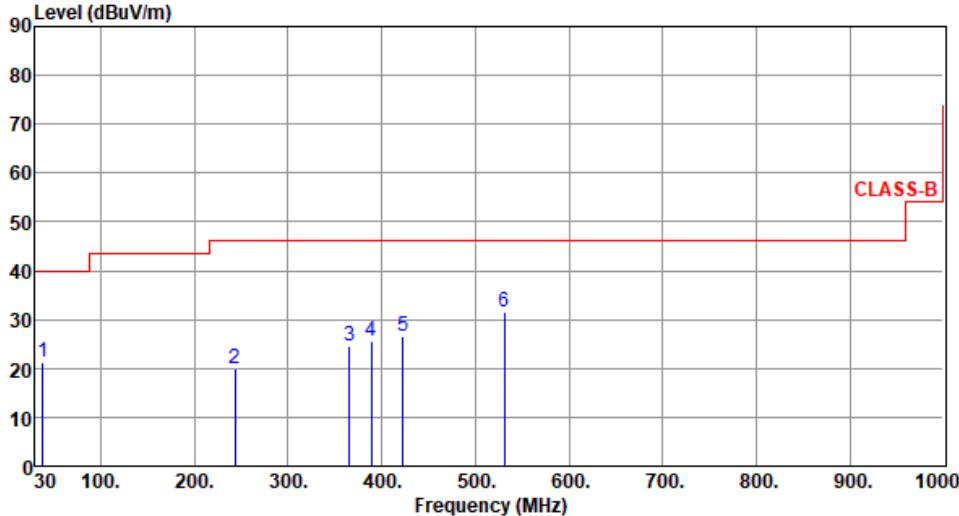
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

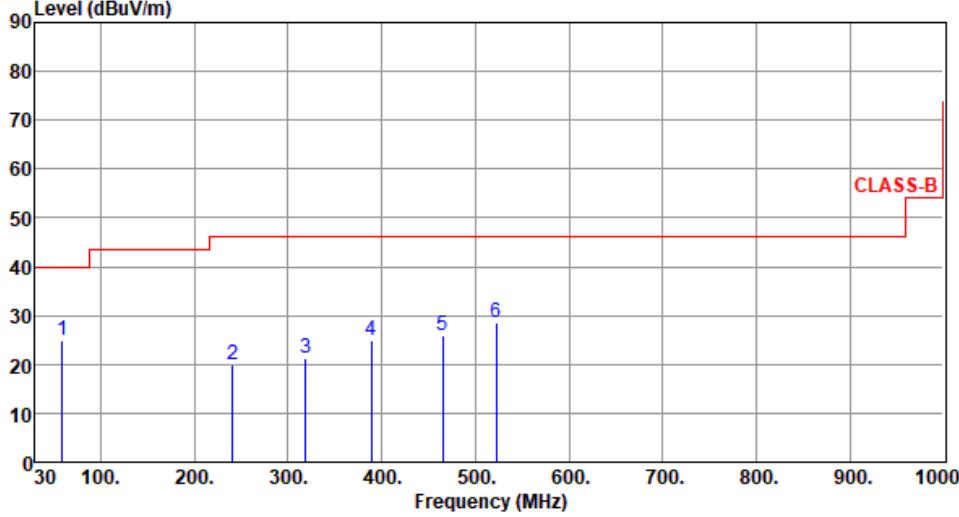
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|----------------|-----------------------|-----------------------------|-----------------|-------------------|-----------------------|--------------|--------|-------------------|----------------------|---|-------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|
| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <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>38.28</td> <td>21.14</td> <td>40.00</td> <td>-18.86</td> <td>30.20</td> <td>-9.06</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>243.20</td> <td>19.77</td> <td>46.00</td> <td>-26.23</td> <td>30.23</td> <td>-10.46</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>365.60</td> <td>24.66</td> <td>46.00</td> <td>-21.34</td> <td>31.47</td> <td>-6.81</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>388.80</td> <td>25.59</td> <td>46.00</td> <td>-20.41</td> <td>31.67</td> <td>-6.08</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>422.40</td> <td>26.62</td> <td>46.00</td> <td>-19.38</td> <td>31.74</td> <td>-5.12</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>531.20</td> <td>31.71</td> <td>46.00</td> <td>-14.29</td> <td>34.42</td> <td>-2.71</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 | 38.28 | 21.14 | 40.00 | -18.86 | 30.20 | -9.06 | Peak | --- | --- | 2 | 243.20 | 19.77 | 46.00 | -26.23 | 30.23 | -10.46 | Peak | --- | --- | 3 | 365.60 | 24.66 | 46.00 | -21.34 | 31.47 | -6.81 | Peak | --- | --- | 4 | 388.80 | 25.59 | 46.00 | -20.41 | 31.67 | -6.08 | Peak | --- | --- | 5 | 422.40 | 26.62 | 46.00 | -19.38 | 31.74 | -5.12 | Peak | --- | --- | 6 | 531.20 | 31.71 | 46.00 | -14.29 | 34.42 | -2.71 | 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 | 38.28 | 21.14 | 40.00 | -18.86 | 30.20 | -9.06 | Peak | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 243.20 | 19.77 | 46.00 | -26.23 | 30.23 | -10.46 | Peak | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 365.60 | 24.66 | 46.00 | -21.34 | 31.47 | -6.81 | Peak | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 388.80 | 25.59 | 46.00 | -20.41 | 31.67 | -6.08 | Peak | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 422.40 | 26.62 | 46.00 | -19.38 | 31.74 | -5.12 | Peak | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 531.20 | 31.71 | 46.00 | -14.29 | 34.42 | -2.71 | 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.

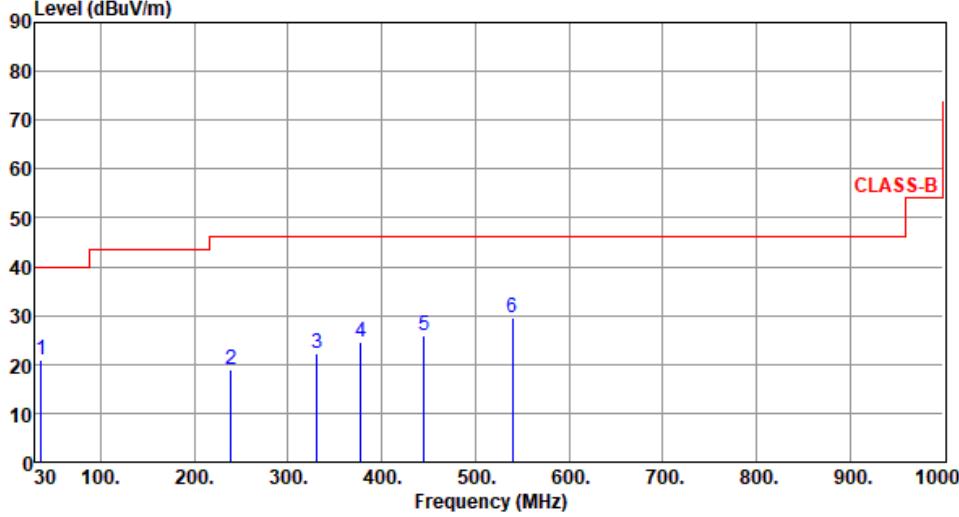
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  CLASS-B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | Margin | reading | Factor | Peak | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | dB | dBuV | dB | | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 58.65 | 25.06 | 40.00 | -14.94 | 34.25 | -9.19 | --- | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 240.80 | 20.02 | 46.00 | -25.98 | 30.58 | -10.56 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 319.20 | 21.24 | 46.00 | -24.76 | 29.21 | -7.97 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 388.80 | 24.82 | 46.00 | -21.18 | 30.90 | -6.08 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 465.60 | 25.85 | 46.00 | -20.15 | 29.59 | -3.74 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 522.40 | 28.44 | 46.00 | -17.56 | 31.18 | -2.74 | 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.

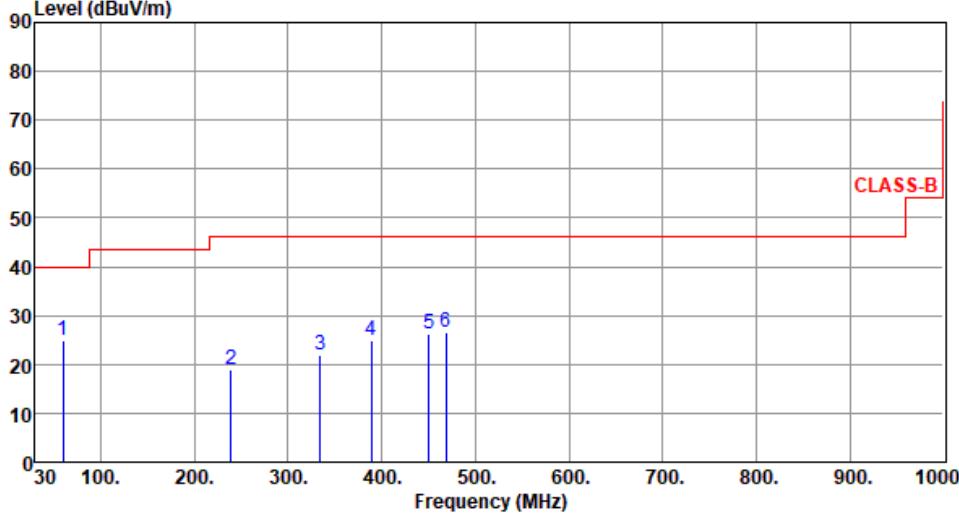
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 907.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | Margin | reading | dB | | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 36.22 | 20.88 | 40.00 | -19.12 | 30.52 | -9.64 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 239.20 | 18.96 | 46.00 | -27.04 | 29.62 | -10.66 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 331.20 | 22.23 | 46.00 | -23.77 | 29.64 | -7.41 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 377.60 | 24.44 | 46.00 | -21.56 | 30.83 | -6.39 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 445.60 | 26.05 | 46.00 | -19.95 | 29.99 | -3.94 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 540.00 | 29.71 | 46.00 | -16.29 | 32.43 | -2.72 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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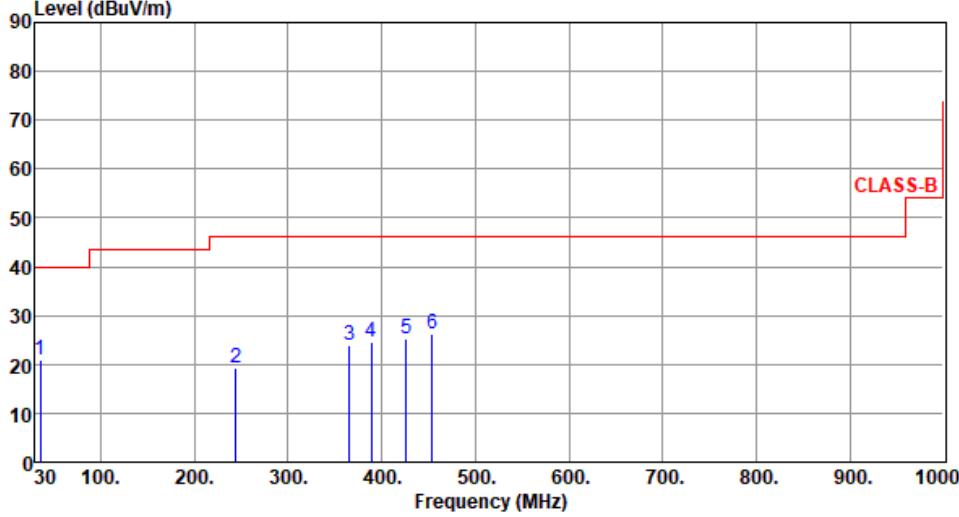
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 907.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dBuV/m | dB | reading | | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 59.46 | 24.98 | 40.00 | -15.02 | 34.17 | -9.19 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 239.20 | 18.93 | 46.00 | -27.07 | 29.59 | -10.66 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 334.40 | 21.94 | 46.00 | -24.06 | 29.26 | -7.32 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 388.80 | 24.91 | 46.00 | -21.09 | 30.99 | -6.08 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 450.40 | 26.21 | 46.00 | -19.79 | 30.29 | -4.08 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 468.80 | 26.52 | 46.00 | -19.48 | 30.19 | -3.67 | 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.

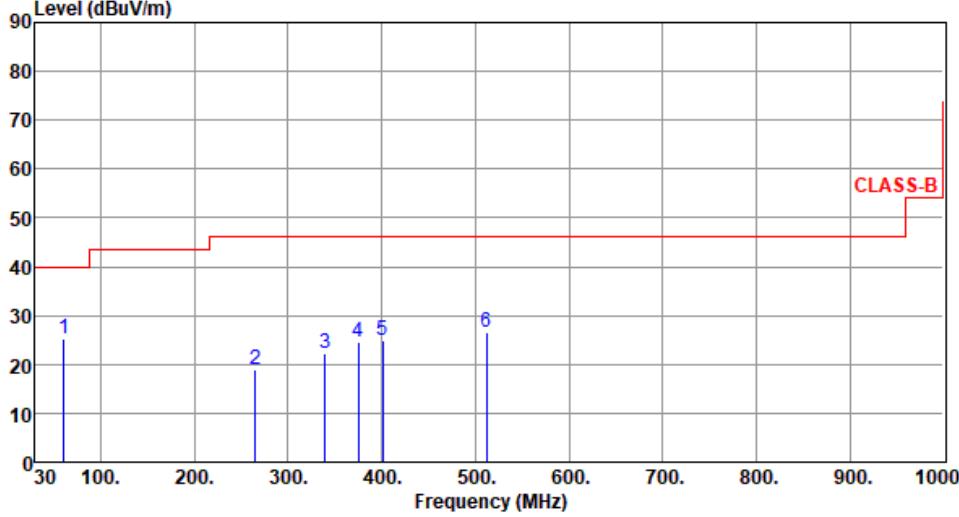
| | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|----------------|
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 914.2 |
| Polarization | Horizontal | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 |
|  | | | |
| Freq. Emission Limit Margin SA Factor Remark ANT Turn level level reading reading MHz dBuV/m dBuV/m dB dB 1 35.92 20.94 40.00 -19.06 30.55 -9.61 Peak High cm --- deg 2 244.00 19.36 46.00 -26.64 29.79 -10.43 Peak --- --- 3 365.60 23.94 46.00 -22.06 30.75 -6.81 Peak --- --- 4 388.80 24.58 46.00 -21.42 30.66 -6.08 Peak --- --- 5 426.40 25.13 46.00 -20.87 30.11 -4.98 Peak --- --- 6 453.60 26.25 46.00 -19.75 30.27 -4.02 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.

| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 914.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature (°C):22 | Humidity (%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th></th> <th>Freq. (MHz)</th> <th>Emission level (dBuV/m)</th> <th>Margin (dBuV/m)</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>60.28</td> <td>25.35</td> <td>40.00</td> <td>-14.65</td> <td>34.62</td> <td>-9.27</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2</td> <td>264.80</td> <td>19.06</td> <td>46.00</td> <td>-26.94</td> <td>28.82</td> <td>-9.76</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>339.20</td> <td>22.10</td> <td>46.00</td> <td>-23.90</td> <td>29.37</td> <td>-7.27</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>375.20</td> <td>24.53</td> <td>46.00</td> <td>-21.47</td> <td>31.02</td> <td>-6.49</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>400.80</td> <td>25.05</td> <td>46.00</td> <td>-20.95</td> <td>30.77</td> <td>-5.72</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6</td> <td>512.00</td> <td>26.54</td> <td>46.00</td> <td>-19.46</td> <td>29.46</td> <td>-2.92</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table> | | | | | Freq. (MHz) | Emission level (dBuV/m) | Margin (dBuV/m) | SA reading (dBuV) | Factor (dB) | Remark | ANT High (cm) | Turn Table deg | 1 | 60.28 | 25.35 | 40.00 | -14.65 | 34.62 | -9.27 | Peak | --- | 2 | 264.80 | 19.06 | 46.00 | -26.94 | 28.82 | -9.76 | Peak | --- | 3 | 339.20 | 22.10 | 46.00 | -23.90 | 29.37 | -7.27 | Peak | --- | 4 | 375.20 | 24.53 | 46.00 | -21.47 | 31.02 | -6.49 | Peak | --- | 5 | 400.80 | 25.05 | 46.00 | -20.95 | 30.77 | -5.72 | Peak | --- | 6 | 512.00 | 26.54 | 46.00 | -19.46 | 29.46 | -2.92 | Peak | --- |
| | Freq. (MHz) | Emission level (dBuV/m) | Margin (dBuV/m) | SA reading (dBuV) | Factor (dB) | Remark | ANT High (cm) | Turn Table deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 60.28 | 25.35 | 40.00 | -14.65 | 34.62 | -9.27 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 264.80 | 19.06 | 46.00 | -26.94 | 28.82 | -9.76 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 339.20 | 22.10 | 46.00 | -23.90 | 29.37 | -7.27 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 375.20 | 24.53 | 46.00 | -21.47 | 31.02 | -6.49 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 400.80 | 25.05 | 46.00 | -20.95 | 30.77 | -5.72 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 512.00 | 26.54 | 46.00 | -19.46 | 29.46 | -2.92 | Peak | --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

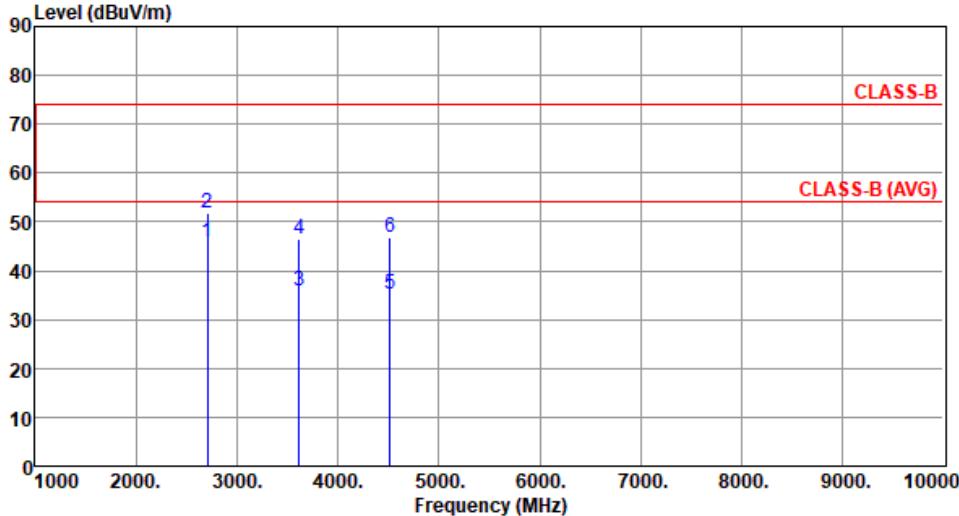
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

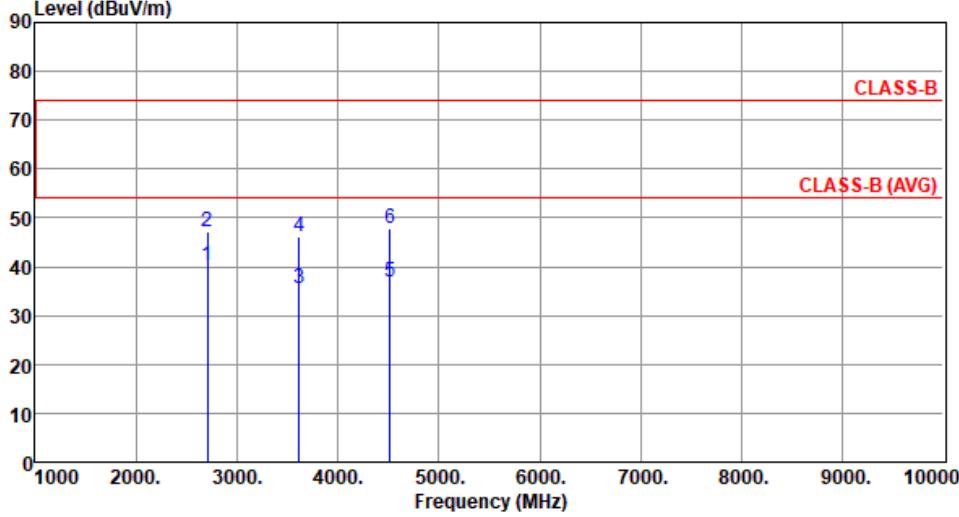
*Factor includes antenna factor , cable loss and amplifier gain

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.

3.4.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

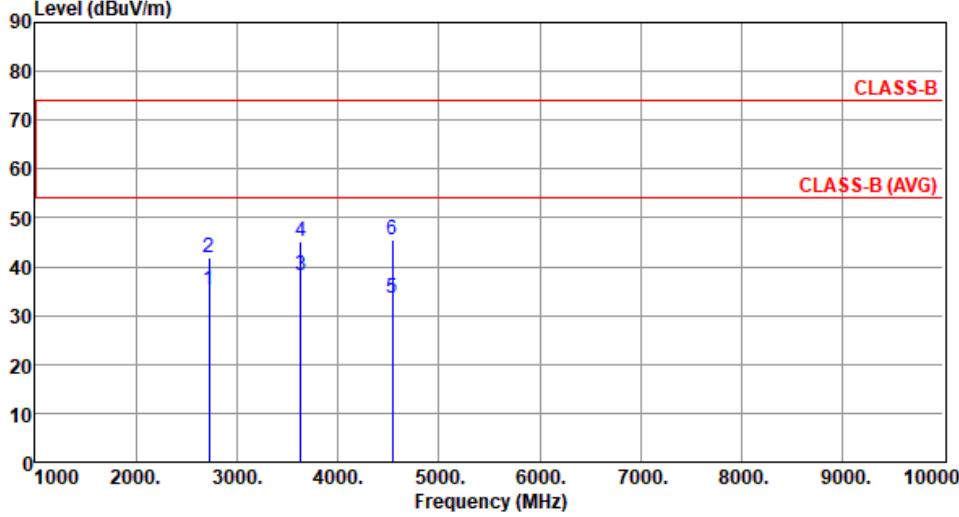
| Modulation / SF | Lora / 8 | | Test Freq. (MHz) | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>The graph plots Emission Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 10000). Two horizontal red lines represent the limits: a higher one at approximately 74 dBuV/m labeled 'CLASS-B' and a lower one at approximately 54 dBuV/m labeled 'CLASS-B (AVG)'. Six vertical blue lines indicate measured levels at specific frequencies: 2709.00 MHz (level ~46 dBuV/m), 3612.00 MHz (level ~36 dBuV/m), and 4515.00 MHz (level ~47 dBuV/m), each with a corresponding number (2, 3, 4, 5, 6) above it. The x-axis is logarithmic.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dBuV</th> <th style="text-align: left;"> </th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">1</td> <td style="text-align: left;">2709.00</td> <td style="text-align: left;">45.93</td> <td style="text-align: left;">54.00</td> <td style="text-align: left;">-8.07</td> <td style="text-align: left;">47.08</td> <td style="text-align: left;">-1.15</td> <td style="text-align: left;">Average</td> <td style="text-align: left;">126</td> <td style="text-align: left;">234</td> </tr> <tr> <td style="text-align: left;">2</td> <td style="text-align: left;">2709.00</td> <td style="text-align: left;">51.89</td> <td style="text-align: left;">74.00</td> <td style="text-align: left;">-22.11</td> <td style="text-align: left;">53.04</td> <td style="text-align: left;">-1.15</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">126</td> <td style="text-align: left;">234</td> </tr> <tr> <td style="text-align: left;">3</td> <td style="text-align: left;">3612.00</td> <td style="text-align: left;">35.93</td> <td style="text-align: left;">54.00</td> <td style="text-align: left;">-18.07</td> <td style="text-align: left;">34.26</td> <td style="text-align: left;">1.67</td> <td style="text-align: left;">Average</td> <td style="text-align: left;">128</td> <td style="text-align: left;">243</td> </tr> <tr> <td style="text-align: left;">4</td> <td style="text-align: left;">3612.00</td> <td style="text-align: left;">46.39</td> <td style="text-align: left;">74.00</td> <td style="text-align: left;">-27.61</td> <td style="text-align: left;">44.72</td> <td style="text-align: left;">1.67</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">128</td> <td style="text-align: left;">243</td> </tr> <tr> <td style="text-align: left;">5</td> <td style="text-align: left;">4515.00</td> <td style="text-align: left;">35.31</td> <td style="text-align: left;">54.00</td> <td style="text-align: left;">-18.69</td> <td style="text-align: left;">31.05</td> <td style="text-align: left;">4.26</td> <td style="text-align: left;">Average</td> <td style="text-align: left;">100</td> <td style="text-align: left;">236</td> </tr> <tr> <td style="text-align: left;">6</td> <td style="text-align: left;">4515.00</td> <td style="text-align: left;">46.88</td> <td style="text-align: left;">74.00</td> <td style="text-align: left;">-27.12</td> <td style="text-align: left;">42.62</td> <td style="text-align: left;">4.26</td> <td style="text-align: left;">Peak</td> <td style="text-align: left;">100</td> <td style="text-align: left;">236</td> </tr> </tbody> </table> | | | | | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | MHz | level | dBuV/m | dB | reading | dBuV | | High | Table | 1 | 2709.00 | 45.93 | 54.00 | -8.07 | 47.08 | -1.15 | Average | 126 | 234 | 2 | 2709.00 | 51.89 | 74.00 | -22.11 | 53.04 | -1.15 | Peak | 126 | 234 | 3 | 3612.00 | 35.93 | 54.00 | -18.07 | 34.26 | 1.67 | Average | 128 | 243 | 4 | 3612.00 | 46.39 | 74.00 | -27.61 | 44.72 | 1.67 | Peak | 128 | 243 | 5 | 4515.00 | 35.31 | 54.00 | -18.69 | 31.05 | 4.26 | Average | 100 | 236 | 6 | 4515.00 | 46.88 | 74.00 | -27.12 | 42.62 | 4.26 | Peak | 100 | 236 |
| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dB | reading | dBuV | | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2709.00 | 45.93 | 54.00 | -8.07 | 47.08 | -1.15 | Average | 126 | 234 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2709.00 | 51.89 | 74.00 | -22.11 | 53.04 | -1.15 | Peak | 126 | 234 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3612.00 | 35.93 | 54.00 | -18.07 | 34.26 | 1.67 | Average | 128 | 243 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3612.00 | 46.39 | 74.00 | -27.61 | 44.72 | 1.67 | Peak | 128 | 243 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4515.00 | 35.31 | 54.00 | -18.69 | 31.05 | 4.26 | Average | 100 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4515.00 | 46.88 | 74.00 | -27.12 | 42.62 | 4.26 | Peak | 100 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)</p> <p>*Factor includes antenna factor , cable loss and amplifier gain</p> <p>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

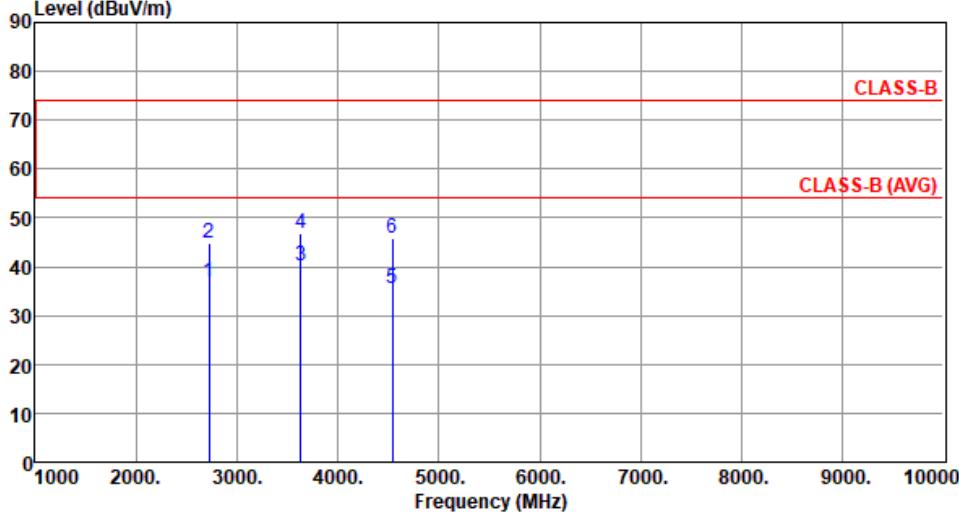
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 903 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature (°C): 22 | Humidity (%): 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dBiV</th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2709.00</td> <td>40.13</td> <td>54.00</td> <td>-13.87</td> <td>41.28</td> <td>-1.15</td> <td>Average</td> <td>153</td> <td>320</td> </tr> <tr> <td>2</td> <td>2709.00</td> <td>47.26</td> <td>74.00</td> <td>-26.74</td> <td>48.41</td> <td>-1.15</td> <td>Peak</td> <td>153</td> <td>320</td> </tr> <tr> <td>3</td> <td>3612.00</td> <td>35.68</td> <td>54.00</td> <td>-18.32</td> <td>34.01</td> <td>1.67</td> <td>Average</td> <td>181</td> <td>46</td> </tr> <tr> <td>4</td> <td>3612.00</td> <td>46.12</td> <td>74.00</td> <td>-27.88</td> <td>44.45</td> <td>1.67</td> <td>Peak</td> <td>181</td> <td>46</td> </tr> <tr> <td>5</td> <td>4515.00</td> <td>36.83</td> <td>54.00</td> <td>-17.17</td> <td>32.57</td> <td>4.26</td> <td>Average</td> <td>100</td> <td>163</td> </tr> <tr> <td>6</td> <td>4515.00</td> <td>47.71</td> <td>74.00</td> <td>-26.29</td> <td>43.45</td> <td>4.26</td> <td>Peak</td> <td>100</td> <td>163</td> </tr> </tbody> </table> | | | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | MHz | level | dBuV/m | dBuV/m | dB | reading | dBiV | High | Table | 1 | 2709.00 | 40.13 | 54.00 | -13.87 | 41.28 | -1.15 | Average | 153 | 320 | 2 | 2709.00 | 47.26 | 74.00 | -26.74 | 48.41 | -1.15 | Peak | 153 | 320 | 3 | 3612.00 | 35.68 | 54.00 | -18.32 | 34.01 | 1.67 | Average | 181 | 46 | 4 | 3612.00 | 46.12 | 74.00 | -27.88 | 44.45 | 1.67 | Peak | 181 | 46 | 5 | 4515.00 | 36.83 | 54.00 | -17.17 | 32.57 | 4.26 | Average | 100 | 163 | 6 | 4515.00 | 47.71 | 74.00 | -26.29 | 43.45 | 4.26 | Peak | 100 | 163 |
| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dBuV/m | dB | reading | dBiV | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2709.00 | 40.13 | 54.00 | -13.87 | 41.28 | -1.15 | Average | 153 | 320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2709.00 | 47.26 | 74.00 | -26.74 | 48.41 | -1.15 | Peak | 153 | 320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3612.00 | 35.68 | 54.00 | -18.32 | 34.01 | 1.67 | Average | 181 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3612.00 | 46.12 | 74.00 | -27.88 | 44.45 | 1.67 | Peak | 181 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4515.00 | 36.83 | 54.00 | -17.17 | 32.57 | 4.26 | Average | 100 | 163 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4515.00 | 47.71 | 74.00 | -26.29 | 43.45 | 4.26 | Peak | 100 | 163 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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).

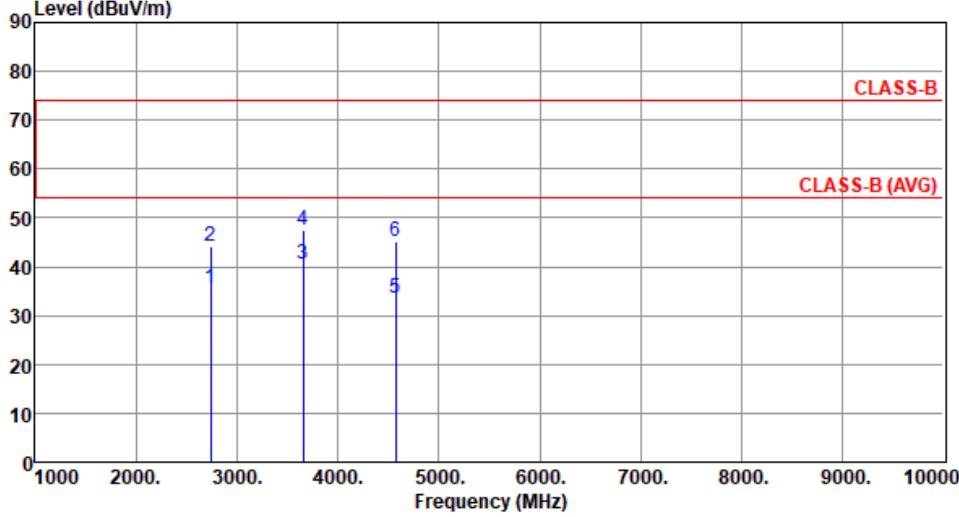
| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 907.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature (°C): 22 | Humidity (%): 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th></th> <th>Freq. level MHz</th> <th>Emission level 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>2723.40</td> <td>35.26</td> <td>54.00</td> <td>-18.74</td> <td>36.38</td> <td>-1.12</td> <td>Average</td> <td>135</td> <td>276</td> </tr> <tr> <td>2</td> <td>2723.40</td> <td>41.86</td> <td>74.00</td> <td>-32.14</td> <td>42.98</td> <td>-1.12</td> <td>Peak</td> <td>135</td> <td>276</td> </tr> <tr> <td>3</td> <td>3631.20</td> <td>38.04</td> <td>54.00</td> <td>-15.96</td> <td>36.34</td> <td>1.70</td> <td>Average</td> <td>214</td> <td>236</td> </tr> <tr> <td>4</td> <td>3631.20</td> <td>45.19</td> <td>74.00</td> <td>-28.81</td> <td>43.49</td> <td>1.70</td> <td>Peak</td> <td>214</td> <td>236</td> </tr> <tr> <td>5</td> <td>4539.00</td> <td>33.41</td> <td>54.00</td> <td>-20.59</td> <td>29.03</td> <td>4.38</td> <td>Average</td> <td>100</td> <td>64</td> </tr> <tr> <td>6</td> <td>4539.00</td> <td>45.35</td> <td>74.00</td> <td>-28.65</td> <td>40.97</td> <td>4.38</td> <td>Peak</td> <td>100</td> <td>64</td> </tr> </tbody> </table> | | | | | Freq. level MHz | Emission level dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg | 1 | 2723.40 | 35.26 | 54.00 | -18.74 | 36.38 | -1.12 | Average | 135 | 276 | 2 | 2723.40 | 41.86 | 74.00 | -32.14 | 42.98 | -1.12 | Peak | 135 | 276 | 3 | 3631.20 | 38.04 | 54.00 | -15.96 | 36.34 | 1.70 | Average | 214 | 236 | 4 | 3631.20 | 45.19 | 74.00 | -28.81 | 43.49 | 1.70 | Peak | 214 | 236 | 5 | 4539.00 | 33.41 | 54.00 | -20.59 | 29.03 | 4.38 | Average | 100 | 64 | 6 | 4539.00 | 45.35 | 74.00 | -28.65 | 40.97 | 4.38 | Peak | 100 | 64 |
| | Freq. level MHz | Emission level dBuV/m | Margin dB | SA reading dBuV | Factor dB | Remark | ANT High cm | Turn Table deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2723.40 | 35.26 | 54.00 | -18.74 | 36.38 | -1.12 | Average | 135 | 276 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2723.40 | 41.86 | 74.00 | -32.14 | 42.98 | -1.12 | Peak | 135 | 276 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3631.20 | 38.04 | 54.00 | -15.96 | 36.34 | 1.70 | Average | 214 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3631.20 | 45.19 | 74.00 | -28.81 | 43.49 | 1.70 | Peak | 214 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4539.00 | 33.41 | 54.00 | -20.59 | 29.03 | 4.38 | Average | 100 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4539.00 | 45.35 | 74.00 | -28.65 | 40.97 | 4.38 | Peak | 100 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 907.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature (°C):22 | Humidity (%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission Limit</th> <th>Margin</th> <th>SA Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>level</th> <th>dBuV/m</th> <th>dB</th> <th>reading</th> <th>dBuV</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2723.40</td> <td>36.92</td> <td>54.00</td> <td>-17.08</td> <td>38.04</td> <td>-1.12</td> <td>Average</td> <td>126</td> <td>301</td> </tr> <tr> <td>2</td> <td>2723.40</td> <td>44.89</td> <td>74.00</td> <td>-29.11</td> <td>46.01</td> <td>-1.12</td> <td>Peak</td> <td>126</td> <td>301</td> </tr> <tr> <td>3</td> <td>3631.20</td> <td>40.24</td> <td>54.00</td> <td>-13.76</td> <td>38.54</td> <td>1.70</td> <td>Average</td> <td>279</td> <td>165</td> </tr> <tr> <td>4</td> <td>3631.20</td> <td>46.69</td> <td>74.00</td> <td>-27.31</td> <td>44.99</td> <td>1.70</td> <td>Peak</td> <td>279</td> <td>165</td> </tr> <tr> <td>5</td> <td>4539.00</td> <td>35.68</td> <td>54.00</td> <td>-18.32</td> <td>31.30</td> <td>4.38</td> <td>Average</td> <td>115</td> <td>162</td> </tr> <tr> <td>6</td> <td>4539.00</td> <td>45.86</td> <td>74.00</td> <td>-28.14</td> <td>41.48</td> <td>4.38</td> <td>Peak</td> <td>115</td> <td>162</td> </tr> </tbody> </table> | | | | Freq. | Emission Limit | Margin | SA Factor | Remark | ANT High | Turn Table | MHz | level | dBuV/m | dB | reading | dBuV | deg | 1 | 2723.40 | 36.92 | 54.00 | -17.08 | 38.04 | -1.12 | Average | 126 | 301 | 2 | 2723.40 | 44.89 | 74.00 | -29.11 | 46.01 | -1.12 | Peak | 126 | 301 | 3 | 3631.20 | 40.24 | 54.00 | -13.76 | 38.54 | 1.70 | Average | 279 | 165 | 4 | 3631.20 | 46.69 | 74.00 | -27.31 | 44.99 | 1.70 | Peak | 279 | 165 | 5 | 4539.00 | 35.68 | 54.00 | -18.32 | 31.30 | 4.38 | Average | 115 | 162 | 6 | 4539.00 | 45.86 | 74.00 | -28.14 | 41.48 | 4.38 | Peak | 115 | 162 |
| Freq. | Emission Limit | Margin | SA Factor | Remark | ANT High | Turn Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dB | reading | dBuV | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2723.40 | 36.92 | 54.00 | -17.08 | 38.04 | -1.12 | Average | 126 | 301 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2723.40 | 44.89 | 74.00 | -29.11 | 46.01 | -1.12 | Peak | 126 | 301 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3631.20 | 40.24 | 54.00 | -13.76 | 38.54 | 1.70 | Average | 279 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3631.20 | 46.69 | 74.00 | -27.31 | 44.99 | 1.70 | Peak | 279 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4539.00 | 35.68 | 54.00 | -18.32 | 31.30 | 4.38 | Average | 115 | 162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4539.00 | 45.86 | 74.00 | -28.14 | 41.48 | 4.38 | Peak | 115 | 162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

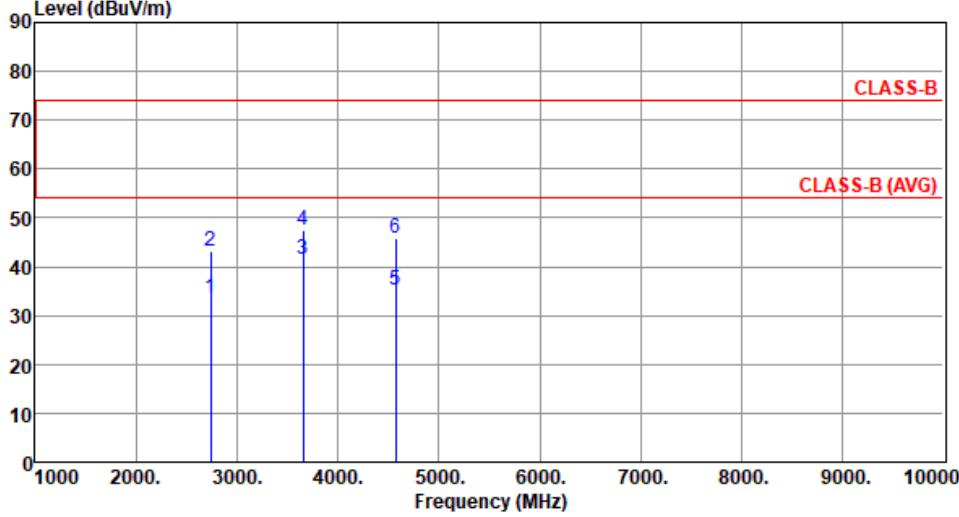
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

| Modulation / SF | Lora / 8 | | Test Freq. (MHz) | 914.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th></th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th>dBuV</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2742.60</td> <td>35.62</td> <td>54.00</td> <td>-18.38</td> <td>36.71</td> <td>-1.09</td> <td>Average</td> <td>125</td> <td>233</td> </tr> <tr> <td>2</td> <td>2742.60</td> <td>44.23</td> <td>74.00</td> <td>-29.77</td> <td>45.32</td> <td>-1.09</td> <td>Peak</td> <td>125</td> <td>233</td> </tr> <tr> <td>3</td> <td>3656.80</td> <td>40.66</td> <td>54.00</td> <td>-13.34</td> <td>38.91</td> <td>1.75</td> <td>Average</td> <td>115</td> <td>236</td> </tr> <tr> <td>4</td> <td>3656.80</td> <td>47.54</td> <td>74.00</td> <td>-26.46</td> <td>45.79</td> <td>1.75</td> <td>Peak</td> <td>115</td> <td>236</td> </tr> <tr> <td>5</td> <td>4571.00</td> <td>33.41</td> <td>54.00</td> <td>-20.59</td> <td>28.92</td> <td>4.49</td> <td>Average</td> <td>100</td> <td>38</td> </tr> <tr> <td>6</td> <td>4571.00</td> <td>45.03</td> <td>74.00</td> <td>-28.97</td> <td>40.54</td> <td>4.49</td> <td>Peak</td> <td>100</td> <td>38</td> </tr> </tbody> </table> | | | | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | MHz | level | dBuV/m | dBuV/m | dB | reading | | High | Table | | | | | | dBuV | dB | cm | deg | 1 | 2742.60 | 35.62 | 54.00 | -18.38 | 36.71 | -1.09 | Average | 125 | 233 | 2 | 2742.60 | 44.23 | 74.00 | -29.77 | 45.32 | -1.09 | Peak | 125 | 233 | 3 | 3656.80 | 40.66 | 54.00 | -13.34 | 38.91 | 1.75 | Average | 115 | 236 | 4 | 3656.80 | 47.54 | 74.00 | -26.46 | 45.79 | 1.75 | Peak | 115 | 236 | 5 | 4571.00 | 33.41 | 54.00 | -20.59 | 28.92 | 4.49 | Average | 100 | 38 | 6 | 4571.00 | 45.03 | 74.00 | -28.97 | 40.54 | 4.49 | Peak | 100 | 38 |
| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | level | dBuV/m | dBuV/m | dB | reading | | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2742.60 | 35.62 | 54.00 | -18.38 | 36.71 | -1.09 | Average | 125 | 233 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2742.60 | 44.23 | 74.00 | -29.77 | 45.32 | -1.09 | Peak | 125 | 233 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3656.80 | 40.66 | 54.00 | -13.34 | 38.91 | 1.75 | Average | 115 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3656.80 | 47.54 | 74.00 | -26.46 | 45.79 | 1.75 | Peak | 115 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4571.00 | 33.41 | 54.00 | -20.59 | 28.92 | 4.49 | Average | 100 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4571.00 | 45.03 | 74.00 | -28.97 | 40.54 | 4.49 | Peak | 100 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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).

| Modulation / SF | Lora / 8 | Test Freq. (MHz) | 914.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Polarization | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test By | :BRAD WU | Temperature(°C):22 | Humidity(%):65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">level</th> <th style="text-align: left;">level</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">dBuV</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2742.60</td> <td>33.44</td> <td>54.00</td> <td>-20.56</td> <td>34.53</td> <td>-1.09</td> <td>Average</td> <td>154</td> <td>288</td> </tr> <tr> <td>2</td> <td>2742.60</td> <td>43.28</td> <td>74.00</td> <td>-30.72</td> <td>44.37</td> <td>-1.09</td> <td>Peak</td> <td>154</td> <td>288</td> </tr> <tr> <td>3</td> <td>3656.80</td> <td>41.54</td> <td>54.00</td> <td>-12.46</td> <td>39.79</td> <td>1.75</td> <td>Average</td> <td>231</td> <td>168</td> </tr> <tr> <td>4</td> <td>3656.80</td> <td>47.42</td> <td>74.00</td> <td>-26.58</td> <td>45.67</td> <td>1.75</td> <td>Peak</td> <td>231</td> <td>168</td> </tr> <tr> <td>5</td> <td>4571.00</td> <td>35.26</td> <td>54.00</td> <td>-18.74</td> <td>30.77</td> <td>4.49</td> <td>Average</td> <td>100</td> <td>162</td> </tr> <tr> <td>6</td> <td>4571.00</td> <td>45.84</td> <td>74.00</td> <td>-28.16</td> <td>41.35</td> <td>4.49</td> <td>Peak</td> <td>100</td> <td>162</td> </tr> </tbody> </table> | | | | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | level | level | Margin | reading | Factor | Remark | ANT | Turn | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | High | Table | | | | | | | cm | deg | 1 | 2742.60 | 33.44 | 54.00 | -20.56 | 34.53 | -1.09 | Average | 154 | 288 | 2 | 2742.60 | 43.28 | 74.00 | -30.72 | 44.37 | -1.09 | Peak | 154 | 288 | 3 | 3656.80 | 41.54 | 54.00 | -12.46 | 39.79 | 1.75 | Average | 231 | 168 | 4 | 3656.80 | 47.42 | 74.00 | -26.58 | 45.67 | 1.75 | Peak | 231 | 168 | 5 | 4571.00 | 35.26 | 54.00 | -18.74 | 30.77 | 4.49 | Average | 100 | 162 | 6 | 4571.00 | 45.84 | 74.00 | -28.16 | 41.35 | 4.49 | Peak | 100 | 162 |
| Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| level | level | Margin | reading | Factor | Remark | ANT | Turn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB | High | Table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2742.60 | 33.44 | 54.00 | -20.56 | 34.53 | -1.09 | Average | 154 | 288 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2742.60 | 43.28 | 74.00 | -30.72 | 44.37 | -1.09 | Peak | 154 | 288 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3656.80 | 41.54 | 54.00 | -12.46 | 39.79 | 1.75 | Average | 231 | 168 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3656.80 | 47.42 | 74.00 | -26.58 | 45.67 | 1.75 | Peak | 231 | 168 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4571.00 | 35.26 | 54.00 | -18.74 | 30.77 | 4.49 | Average | 100 | 162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4571.00 | 45.84 | 74.00 | -28.16 | 41.35 | 4.49 | Peak | 100 | 162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

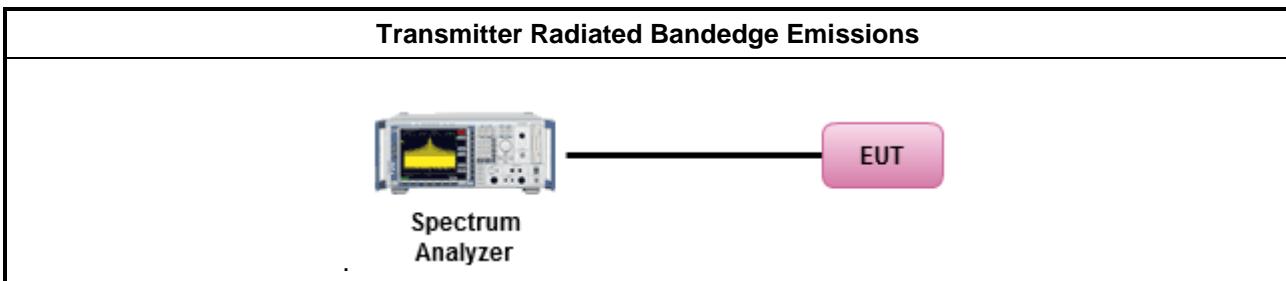
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

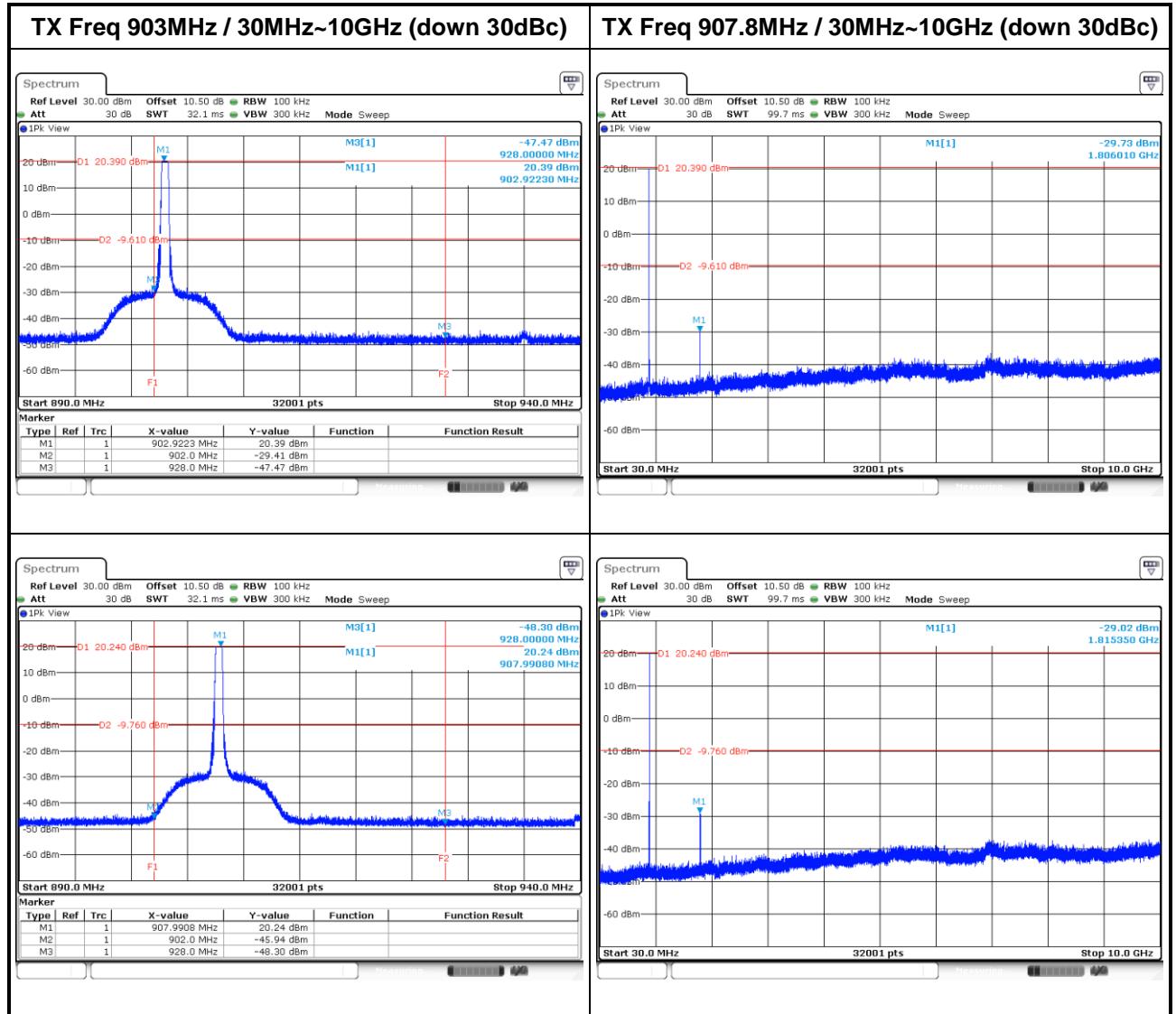
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 10GHz
4. Use the peak marker function to determine the maximum amplitude level

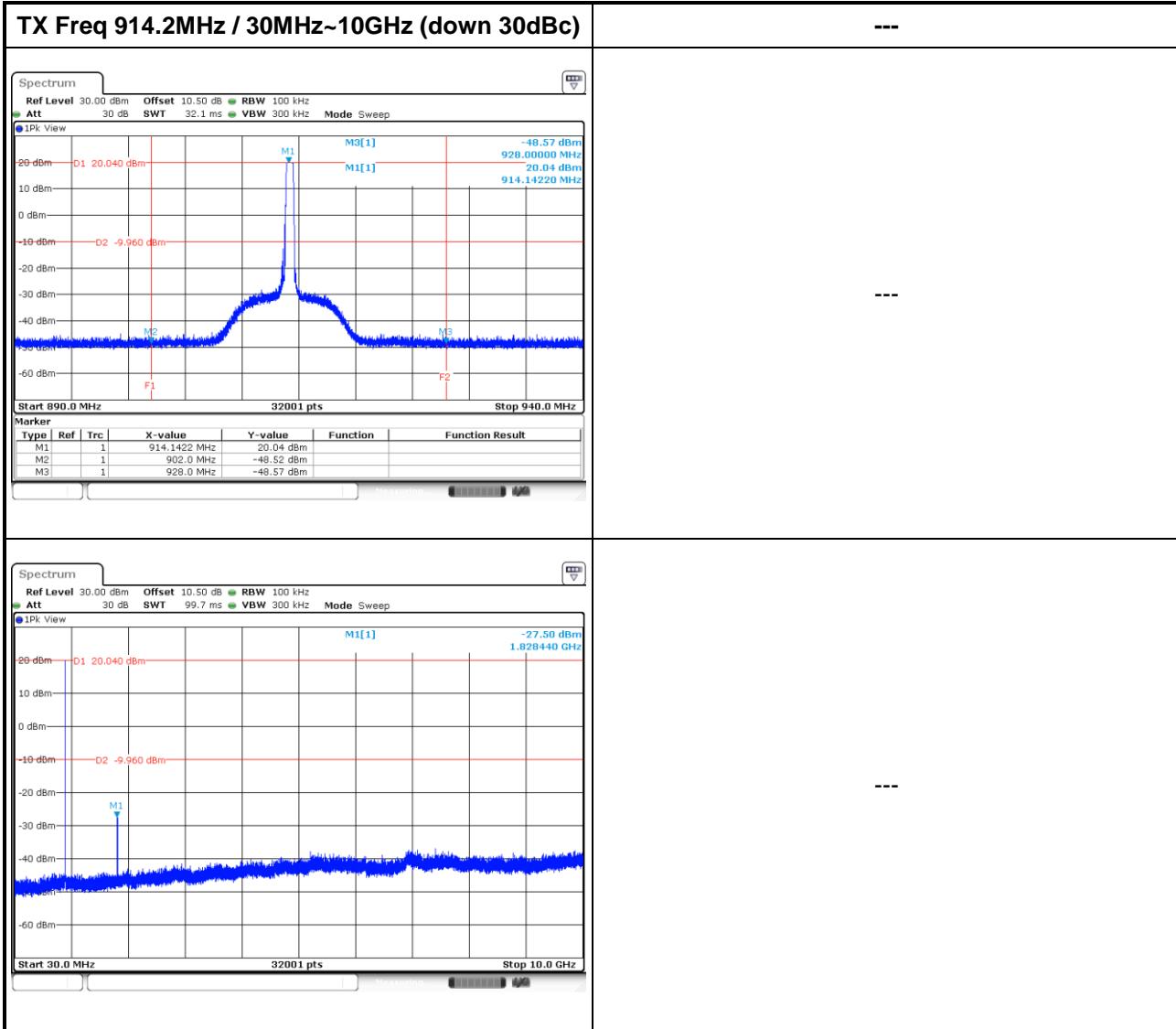
3.5.4 Test Setup



3.5.5 Unwanted Emissions into Non-Restricted Frequency Bands

| | | | |
|-------------------|------------|-----------|---------|
| Ambient Condition | 22°C / 65% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|





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 Corporation (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 Dist., Tao Yuan City
33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., 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—