



# FCC RF Test Report

APPLICANT : Amazon.com Services LLC  
EQUIPMENT : Digital Media Receiver  
MODEL NAME : CP38RE  
FCC ID : 2A4DH-3877  
STANDARD : FCC Part 15 Subpart C §15.247  
CLASSIFICATION : (DTS) Digital Transmission System  
TEST DATE(S) : Sep. 28, 2023 ~ Oct. 31, 2023

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION                                      | ISSUED DATE   |
|--------------|---------|--------------------------------------------------|---------------|
| FR353104-01C | Rev. 01 | Initial issue of report                          | Dec. 22, 2023 |
| FR353104-01C | Rev. 02 | Update the information of WLAN AP in Section 2.4 | Feb. 21, 2024 |
|              |         |                                                  |               |
|              |         |                                                  |               |
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|              |         |                                                  |               |
|              |         |                                                  |               |



## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                                | Limit                   | Result      | Remark                                    |
|----------------|--------------------|--------------------------------------------|-------------------------|-------------|-------------------------------------------|
| 3.1            | 15.247(a)(2)       | 6dB Bandwidth                              | $\geq 0.5\text{MHz}$    | Pass        | -                                         |
| 3.1            | -                  | 99% Bandwidth                              | -                       | Report only | -                                         |
| 3.2            | 15.247(b)(3)       | Output Power                               | $\leq 30\text{dBm}$     | Pass        | -                                         |
| 3.3            | 15.247(e)          | Power Spectral Density                     | $\leq 8\text{dBm/3kHz}$ | Pass        | -                                         |
| 3.4            | 15.247(d)          | Conducted Band Edges and Spurious Emission | $\leq 20\text{dBc}$     | Pass        | -                                         |
| 3.5            | 15.247(d)          | Radiated Band Edges and Spurious Emission  | 15.209(a) & 15.247(d)   | Pass        | Under limit<br>4.79 dB at<br>2483.520 MHz |
| 3.6            | 15.207             | AC Conducted Emission                      | 15.207(a)               | Pass        | Under limit<br>20.30 dB at<br>0.156 MHz   |
| 3.7            | 15.203 & 15.247(b) | Antenna Requirement                        | 15.203 & 15.247(b)      | Pass        | -                                         |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Amazon.com Services LLC

410 Terry Avenue N Seattle, WA 98109-5210 United States

## 1.2 Product Feature of Equipment Under Test

| Product Feature |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Equipment       | Digital Media Receiver                                                                     |
| Model Name      | CP38RE                                                                                     |
| FCC ID          | 2A4DH-3877                                                                                 |
| SN              | Conducted: P0B3FD01336406W3<br>Conduction: G0B3230233840056<br>Radiation: G0B323023384003Q |

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

## 1.3 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                  |
|-----------------------------------------|----------------------------------|
| Tx/Rx Frequency Range                   | 2405 MHz ~ 2475 MHz              |
| Number of Channels                      | 15                               |
| Carrier Frequency of Each Channel       | 2405 MHz, 2410MHz, ..., 2475MHz  |
| Maximum Output Power to Antenna         | 18.28 dBm (0.0673 W)             |
| 99% Occupied Bandwidth                  | 2.577MHz                         |
| Antenna Type / Gain                     | Stamping Inv F with gain 4.0 dBi |
| Type of Modulation                      | O-QPSK                           |

## 1.4 Modification of EUT

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



## 1.5 Testing Location

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

|                    |                                                                                                                                                                         |                     |                                |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Shenzhen)                                                                                                                                   |                     |                                |
| Test Site Location | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                                                        | FCC Designation No. | FCC Test Firm Registration No. |
|                    | CO02-SZ<br>TH01-SZ                                                                                                                                                      | CN1256              | 421272                         |

|                    |                                                                                                                                                                                           |                     |                                |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Shenzhen)                                                                                                                                                     |                     |                                |
| Test Site Location | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103<br>TEL: +86-755-33202398 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                                                                          | FCC Designation No. | FCC Test Firm Registration No. |
|                    | 03CH03-SZ                                                                                                                                                                                 | CN1256              | 421272                         |

## 1.6 Test Software

| Item | Site      | Manufacturer | Name | Version       |
|------|-----------|--------------|------|---------------|
| 1.   | 03CH03-SZ | AUDIX        | E3   | 6.2009-8-24   |
| 2.   | CO02-SZ   | AUDIX        | E3   | 6.2009-8-24a1 |

## 1.7 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

| Frequency Band  | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 11      | 2405        | 19      | 2445        |
|                 | 12      | 2410        | 20      | 2450        |
|                 | 13      | 2415        | 21      | 2455        |
|                 | 14      | 2420        | 22      | 2460        |
|                 | 15      | 2425        | 23      | 2465        |
|                 | 16      | 2430        | 24      | 2470        |
|                 | 17      | 2435        | 25      | 2475        |
|                 | 18      | 2440        |         |             |

### 2.2 Test Mode

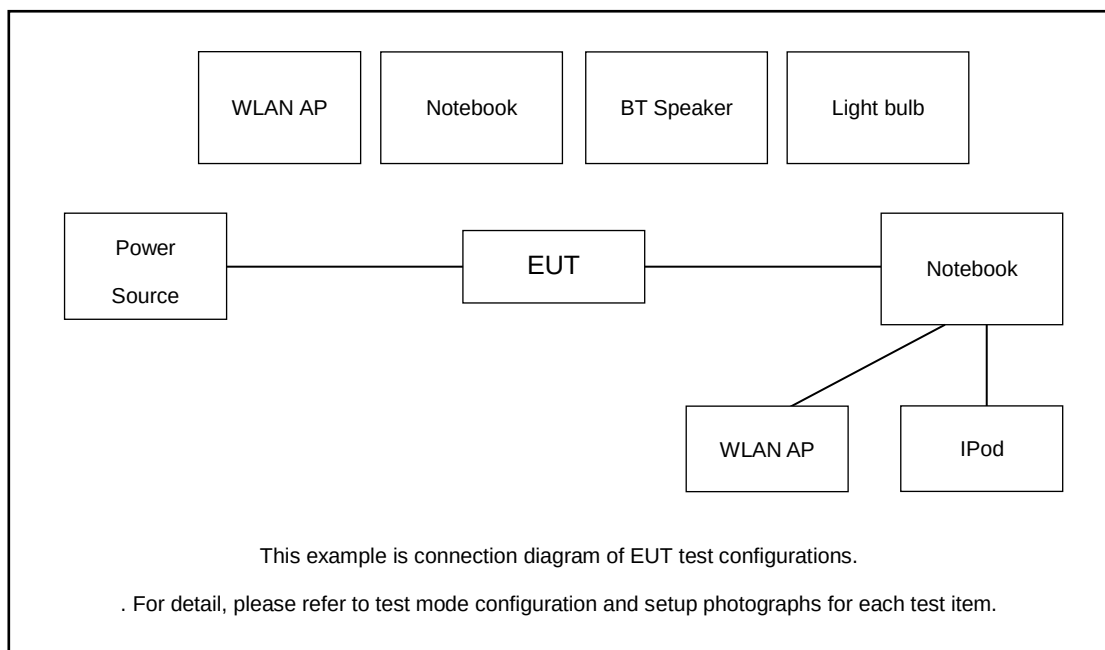
- The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.
- AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

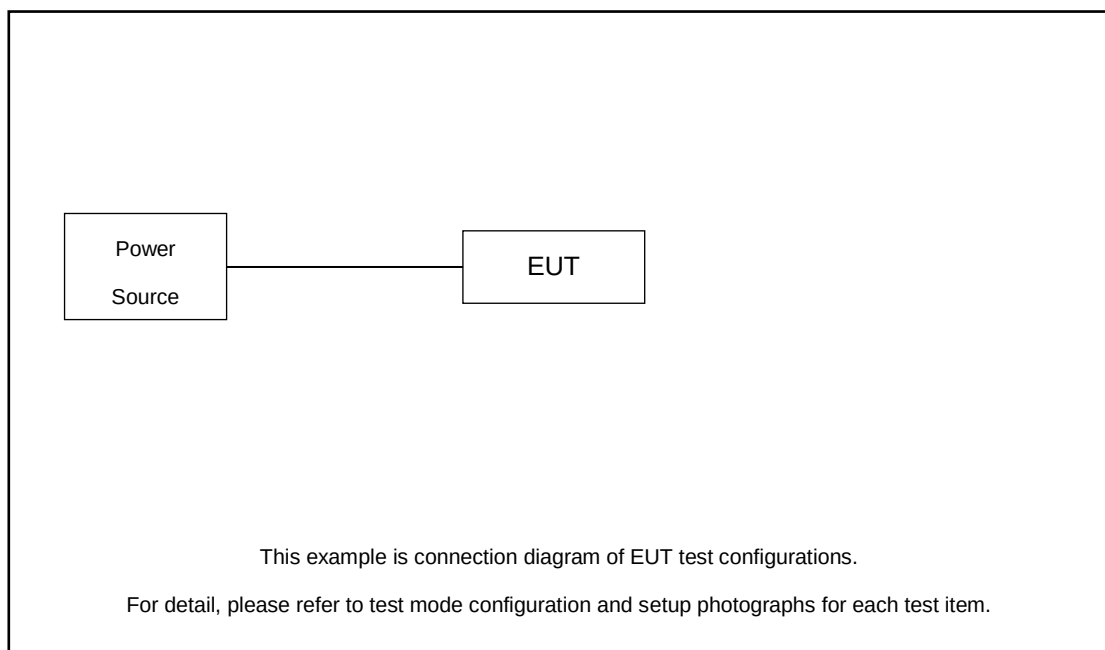
| Summary table of Test Cases                                                      |                                                                                                       |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Test Item                                                                        | Data Rate / Modulation                                                                                |
|                                                                                  | 250kbps / Zigbee                                                                                      |
| Conducted TCs                                                                    | Mode 1: Zigbee Tx CH11_2405 MHz<br>Mode 2: Zigbee Tx CH17_2435 MHz<br>Mode 3: Zigbee Tx CH25_2475 MHz |
| Radiated TCs                                                                     | Mode 1: Zigbee Tx CH11_2405 MHz<br>Mode 2: Zigbee Tx CH17_2435 MHz<br>Mode 3: Zigbee Tx CH25_2475 MHz |
| AC Conducted Emission                                                            | Mode 1: LORA TX + Zigbee Link + Bluetooth Link + WLAN Link(2.4G)                                      |
| <b>Remark:</b> For Radiated Test Cases, The tests were performance with Adapter. |                                                                                                       |

## 2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



## 2.4 Support Unit used in test configuration and system

| Item | Equipment  | Model Name       | FCC ID       | Data Cable     | Power Cord                                           |
|------|------------|------------------|--------------|----------------|------------------------------------------------------|
| 1.   | WLAN AP    | RT-AC66U         | MSQ-RTAC66U  | N/A            | Unshielded, 2.7m with Core                           |
| 2.   | WLAN AP    | RT-AX88U         | MSQ-RTAXHP00 | N/A            | Unshielded, 1.8m with Core                           |
| 3.   | Notebook   | Inspiron 15-7570 | Fcc DoC      | N/A            | AC I/P: Unshielded, 1.8 m<br>DC O/P: Shielded, 1.8 m |
| 4.   | BT Speaker | N/A              | N/A          | N/A            | N/A                                                  |
| 5.   | Light bulb | N/A              | N/A          | N/A            | N/A                                                  |
| 6.   | iPod       | MC525 ZP/A       | Fcc DoC      | Shielded, 1.0m | N/A                                                  |

## 2.5 EUT Operation Test Setup

For Zigbee function, the engineering test program was provided and enabled to make EUT continuous transmit.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 1.5 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 1.5 + 10 = 11.5 \text{ (dB)}
 \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

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

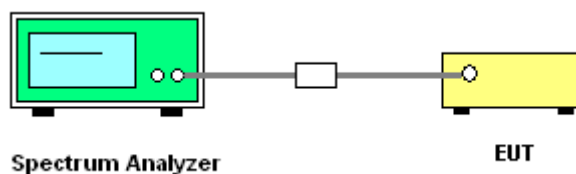
##### 3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

##### 3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

##### 3.1.4 Test Setup

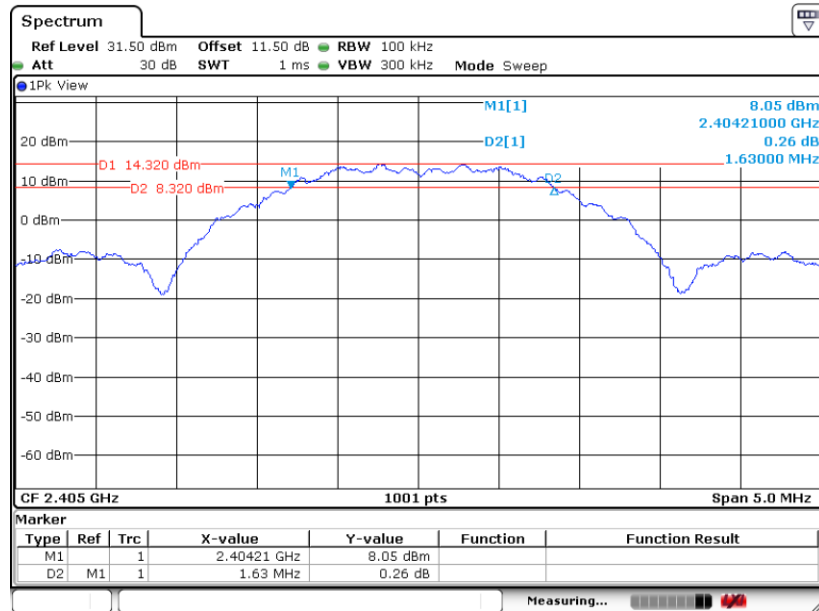




### 3.1.5 Test Result of 6dB Bandwidth

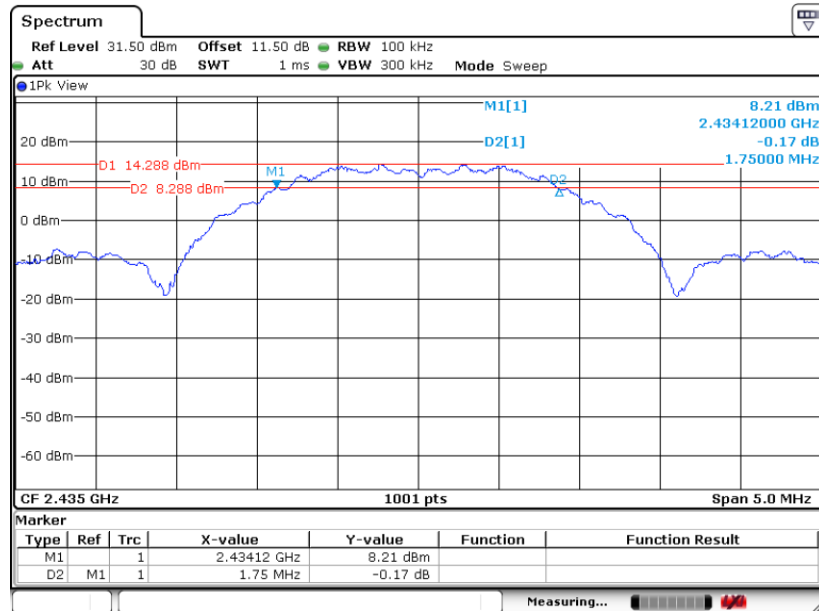
Please refer to Appendix A.

#### 6 dB Bandwidth Plot on Channel 11



Date: 28.SEP.2023 10:07:05

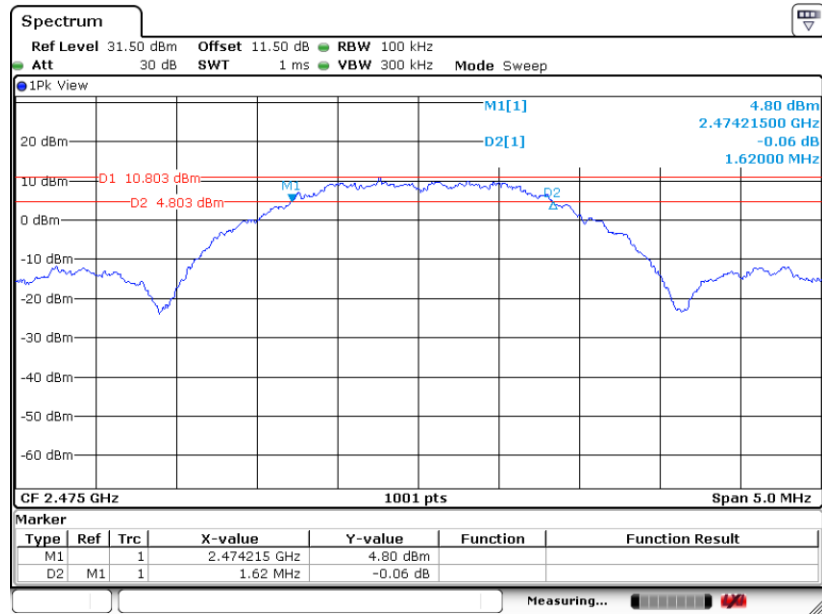
#### 6 dB Bandwidth Plot on Channel 17



Date: 28.SEP.2023 10:11:32



6 dB Bandwidth Plot on Channel 25



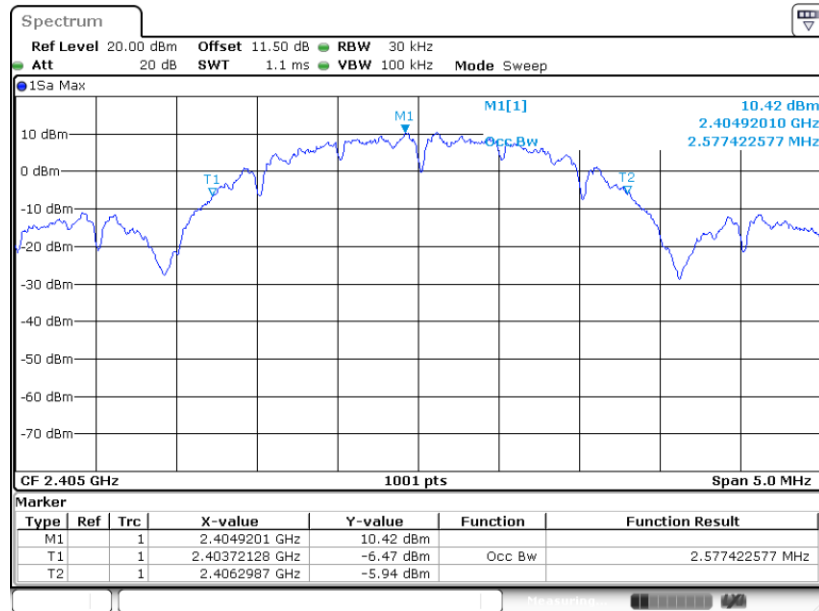
Date: 28.SEP.2023 10:20:01



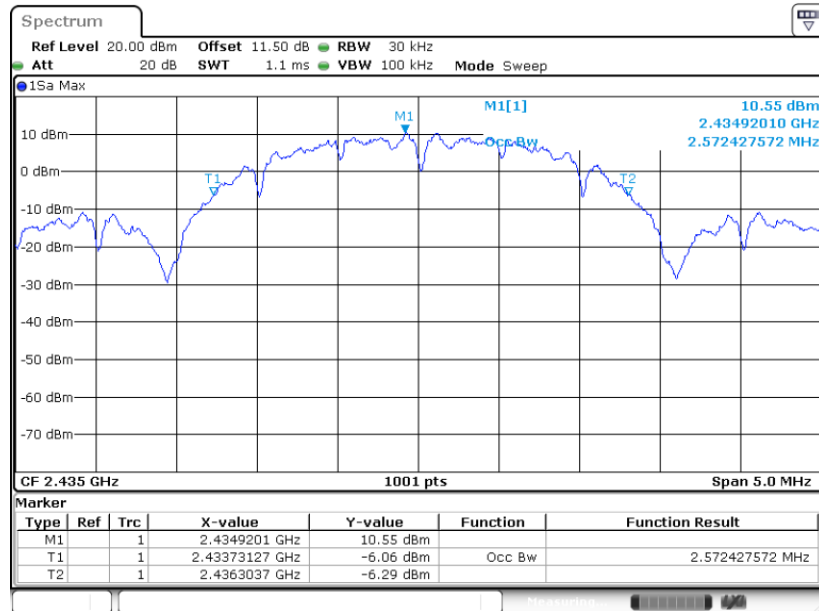
### 3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

#### 99% Occupied Bandwidth Plot on Channel 11

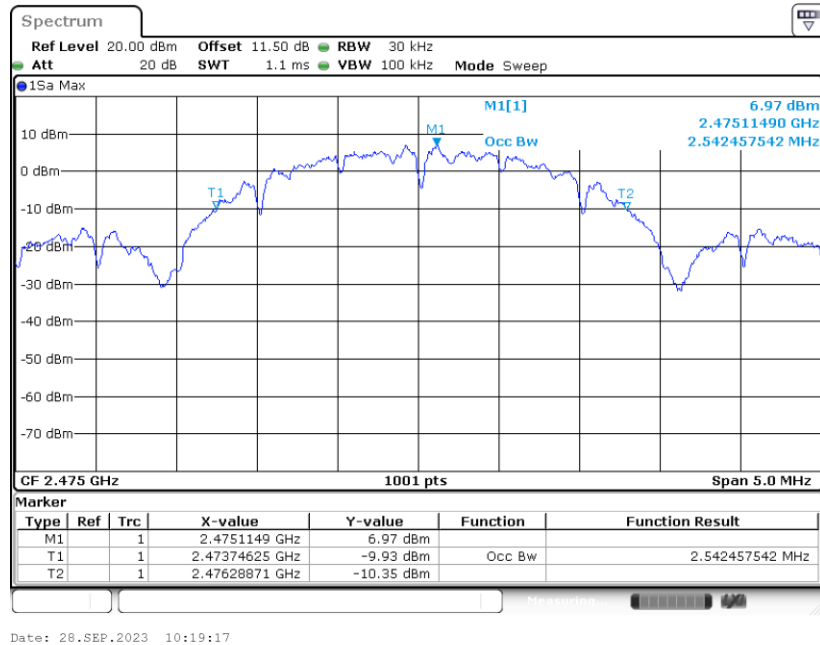


#### 99% Occupied Bandwidth Plot on Channel 17





99% Occupied Bandwidth Plot on Channel 25



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

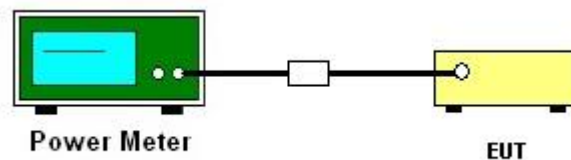
### 3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

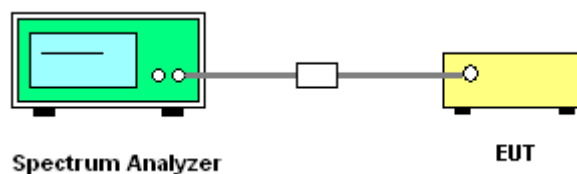
#### 3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

#### 3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

#### 3.3.4 Test Setup



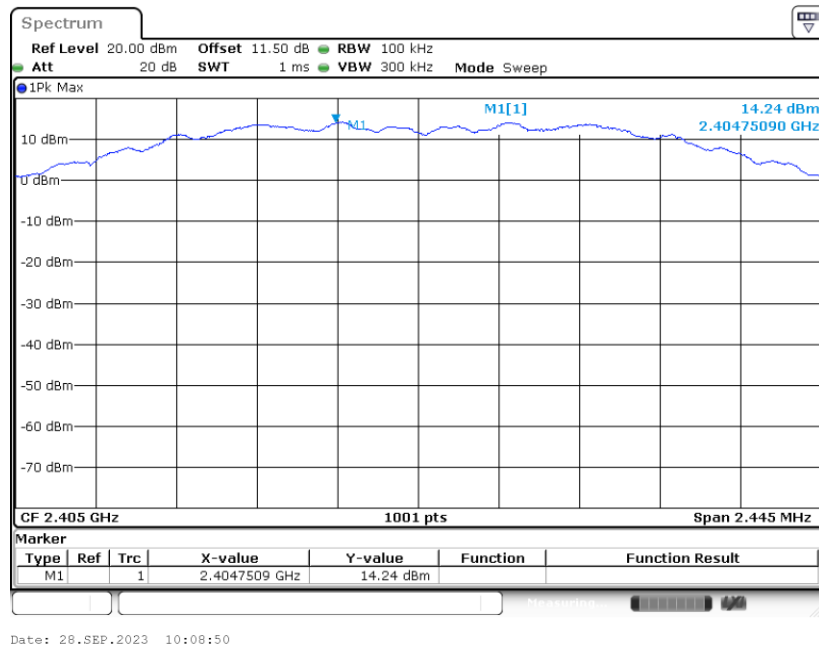
#### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

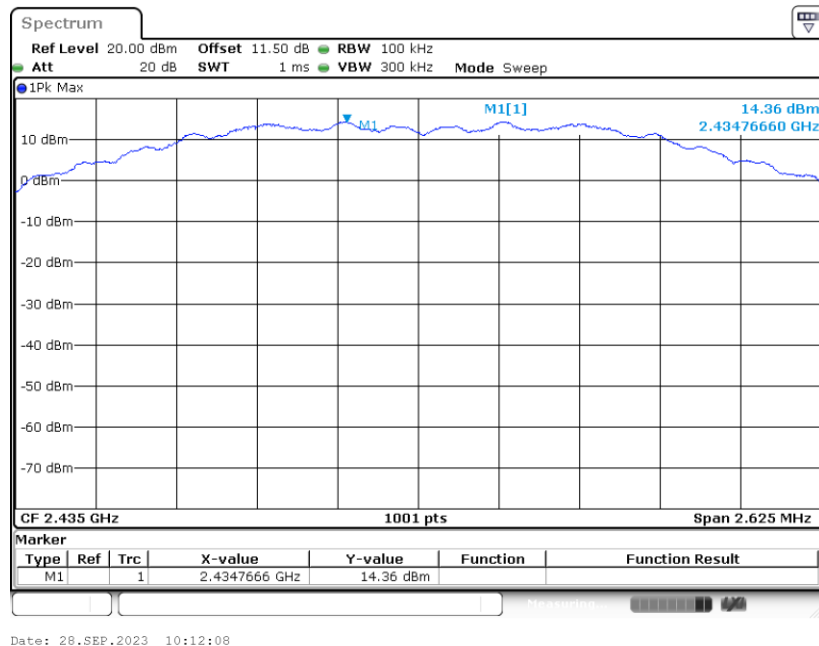


### 3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 11

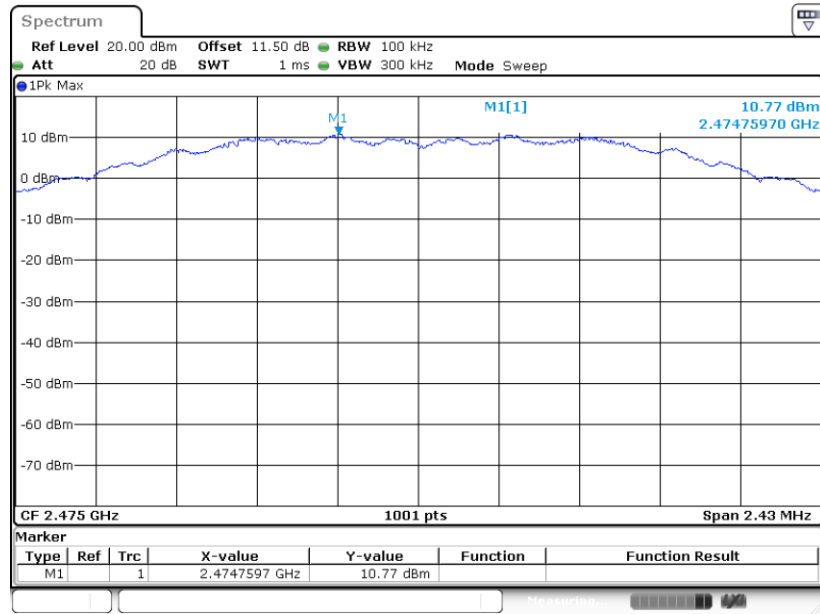


PSD 100kHz Plot on Channel 17





PSD 100kHz Plot on Channel 25

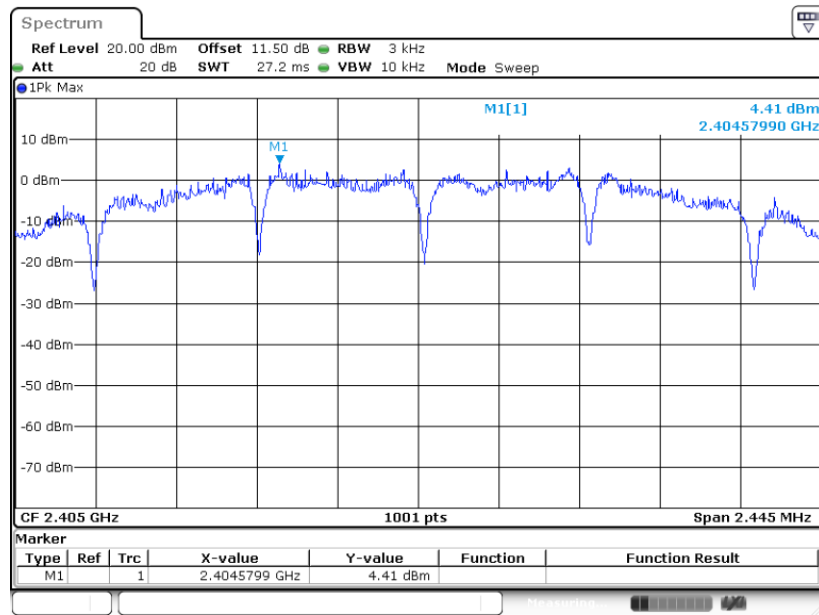


Date: 28.SEP.2023 10:20:37

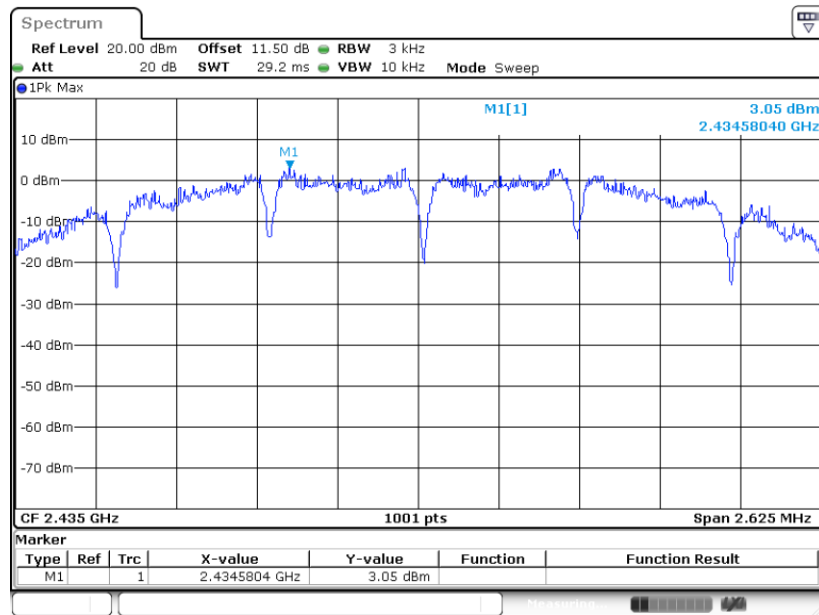


### 3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 11

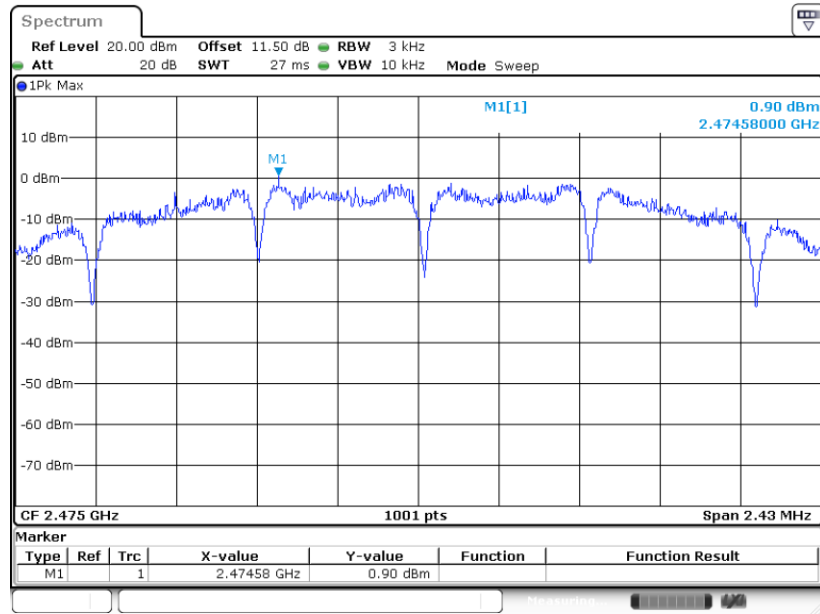


PSD 3kHz Plot on Channel 17





PSD 3kHz Plot on Channel 25



Date: 28.SEP.2023 10:20:19

## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

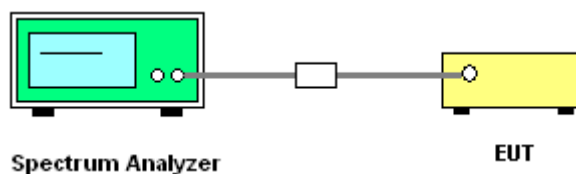
### 3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

### 3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

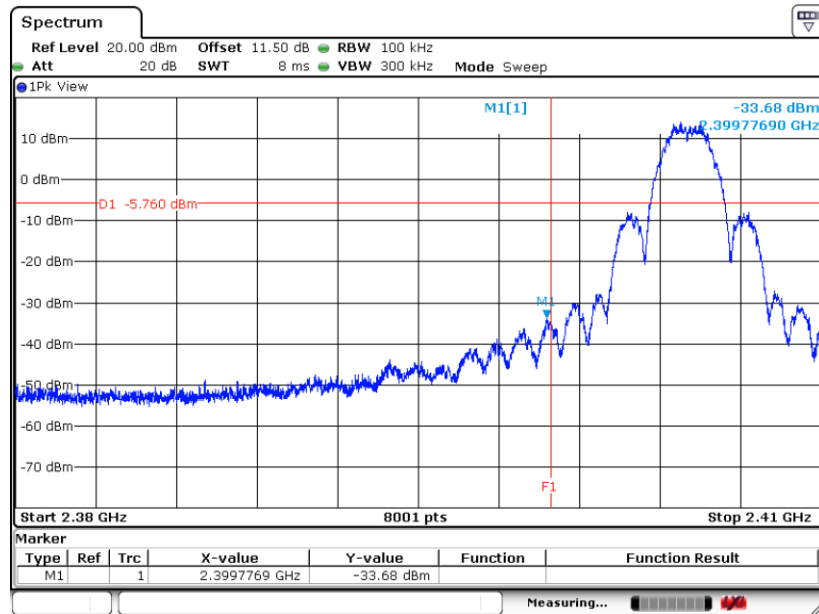
### 3.4.4 Test Setup





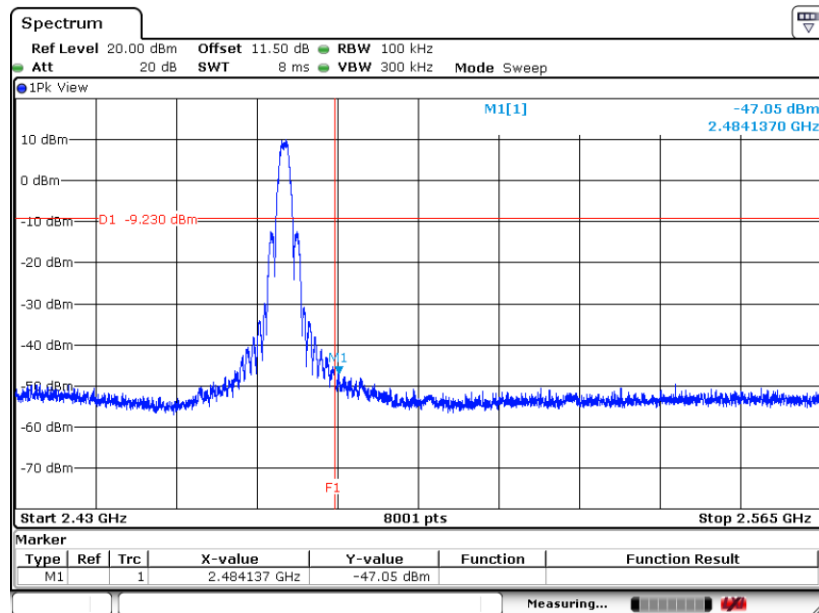
### 3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 11



Date: 28.SEP.2023 10:10:24

High Band Edge Plot on Channel 25

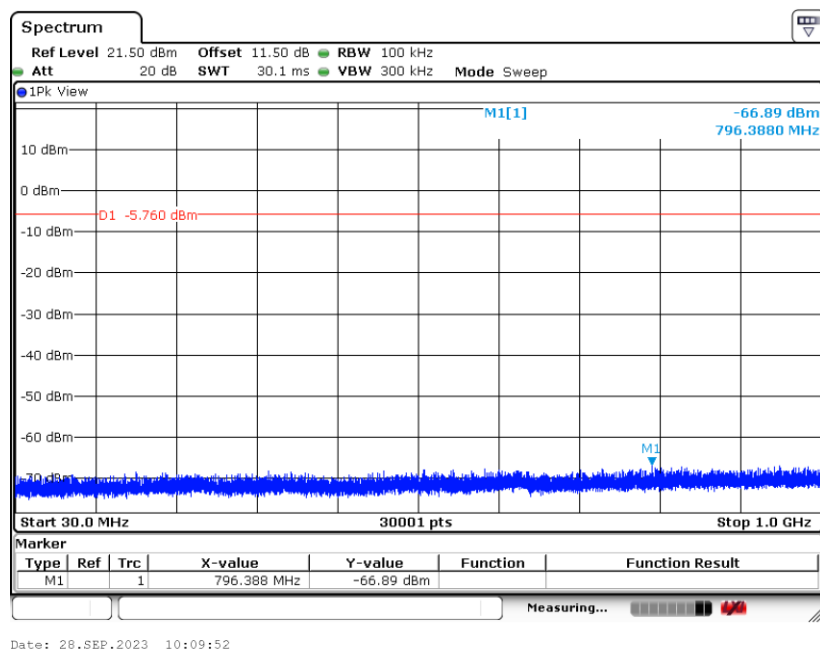


Date: 28.SEP.2023 10:21:48

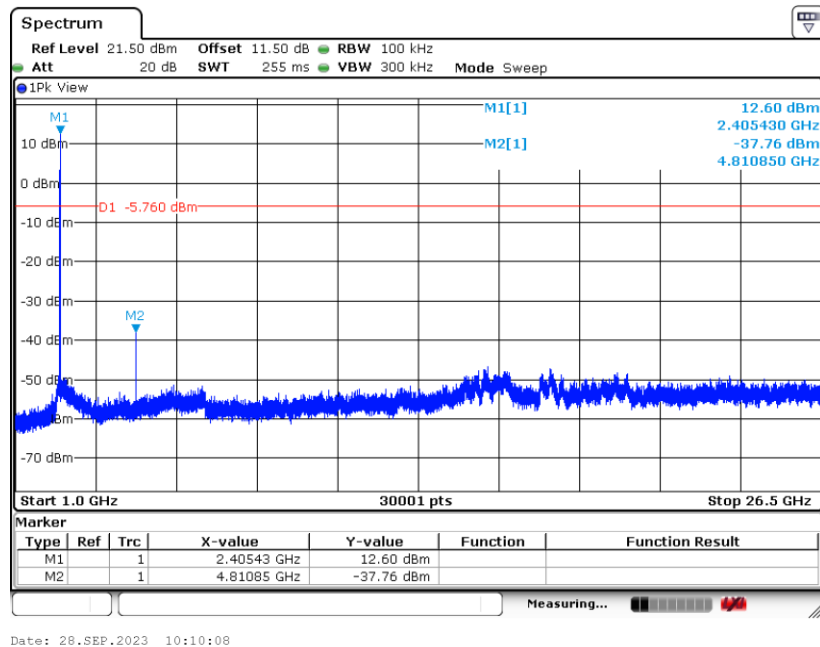


## 3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Zigbee Channel 11

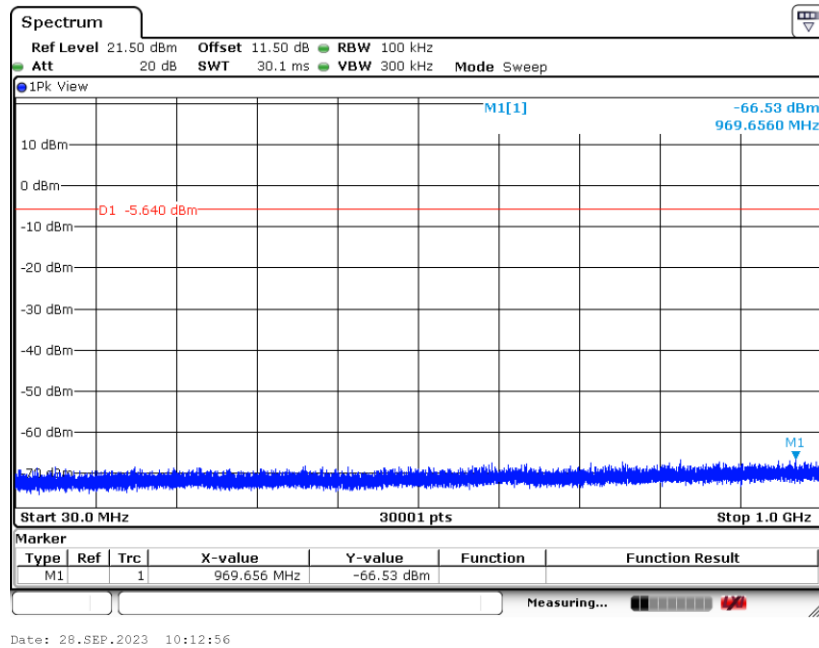


Conducted Spurious Emission Plot on Zigbee Channel 11

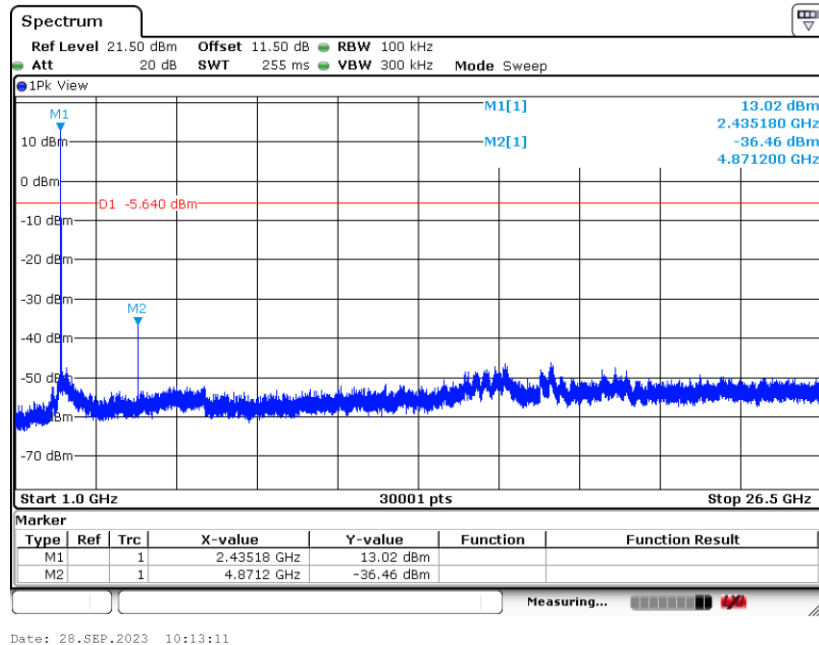




### Conducted Spurious Emission Plot on Zigbee Channel 17

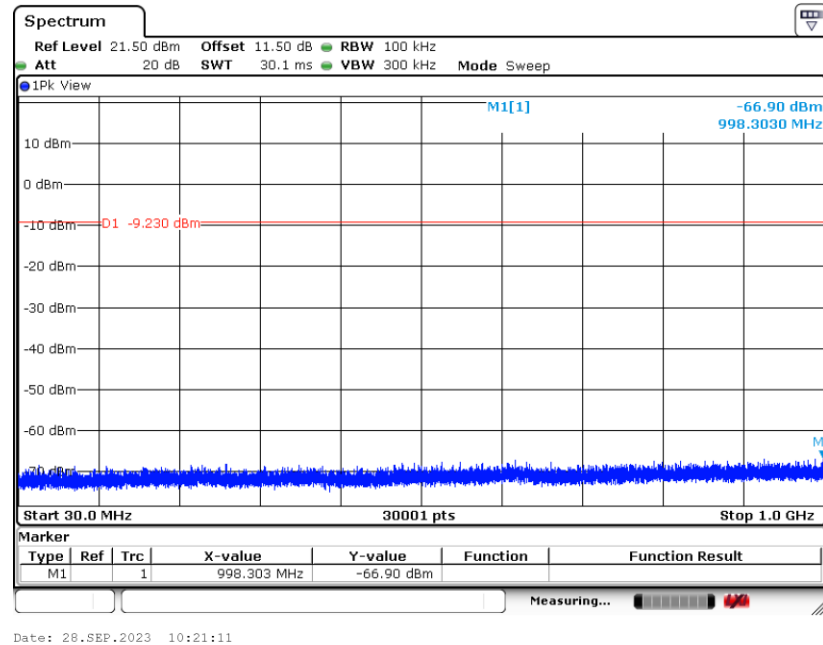


### Conducted Spurious Emission Plot on Zigbee Channel 17

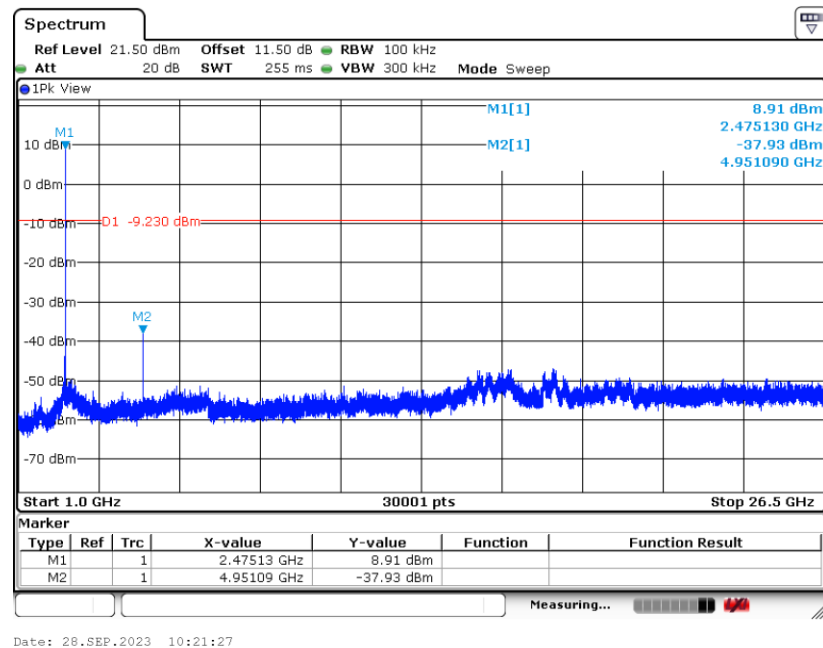




### Conducted Spurious Emission Plot on Zigbee Channel 25



### Conducted Spurious Emission Plot on Zigbee Channel 25





### 3.5 Spurious Emission Measurement in the Restricted Band

#### 3.5.1 Limit of Spurious Emission Measurement in the Restricted Band

Emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

#### 3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

#### 3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;

(2) Set RBW=100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;

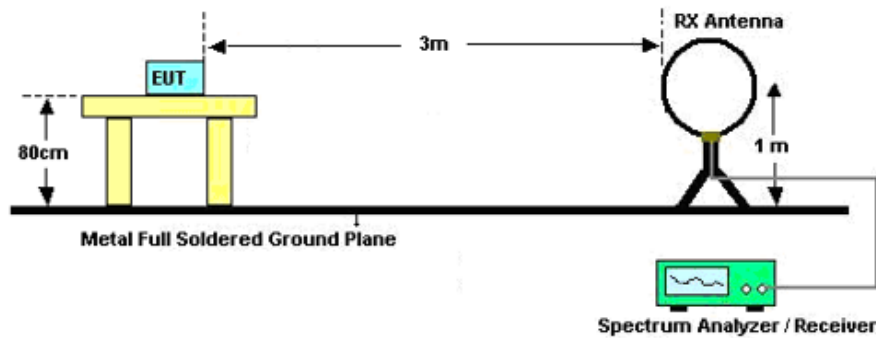
(3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.

For average measurement:

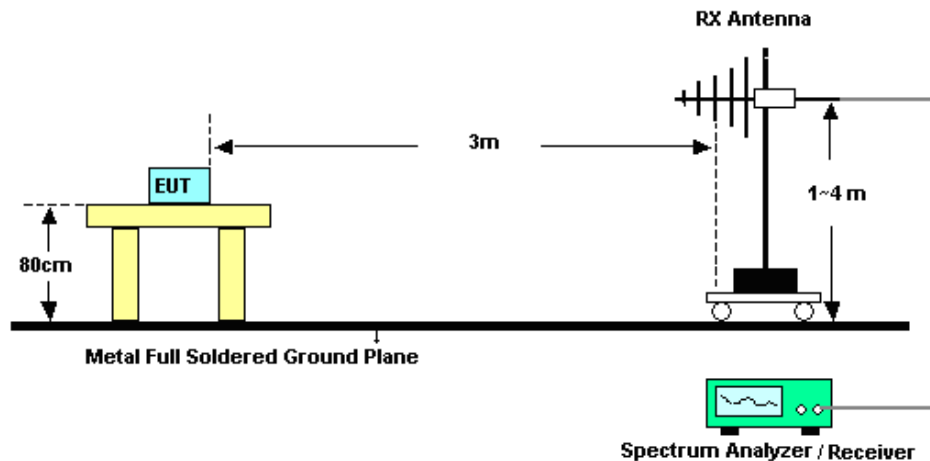
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

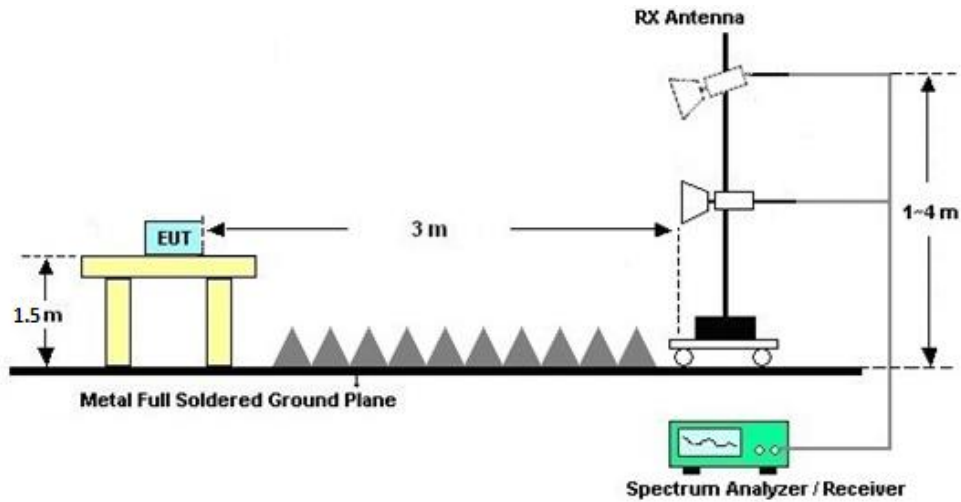
**For radiated emissions below 30MHz**



**For radiated emissions from 30MHz to 1GHz**



For radiated emissions above 1GHz



### 3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

### 3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

### 3.5.8 Duty Cycle

Please refer to Appendix E.

### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBμV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15-0.5                    | 66 to 56*              | 56 to 46* |
| 0.5-5                       | 56                     | 46        |
| 5-30                        | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

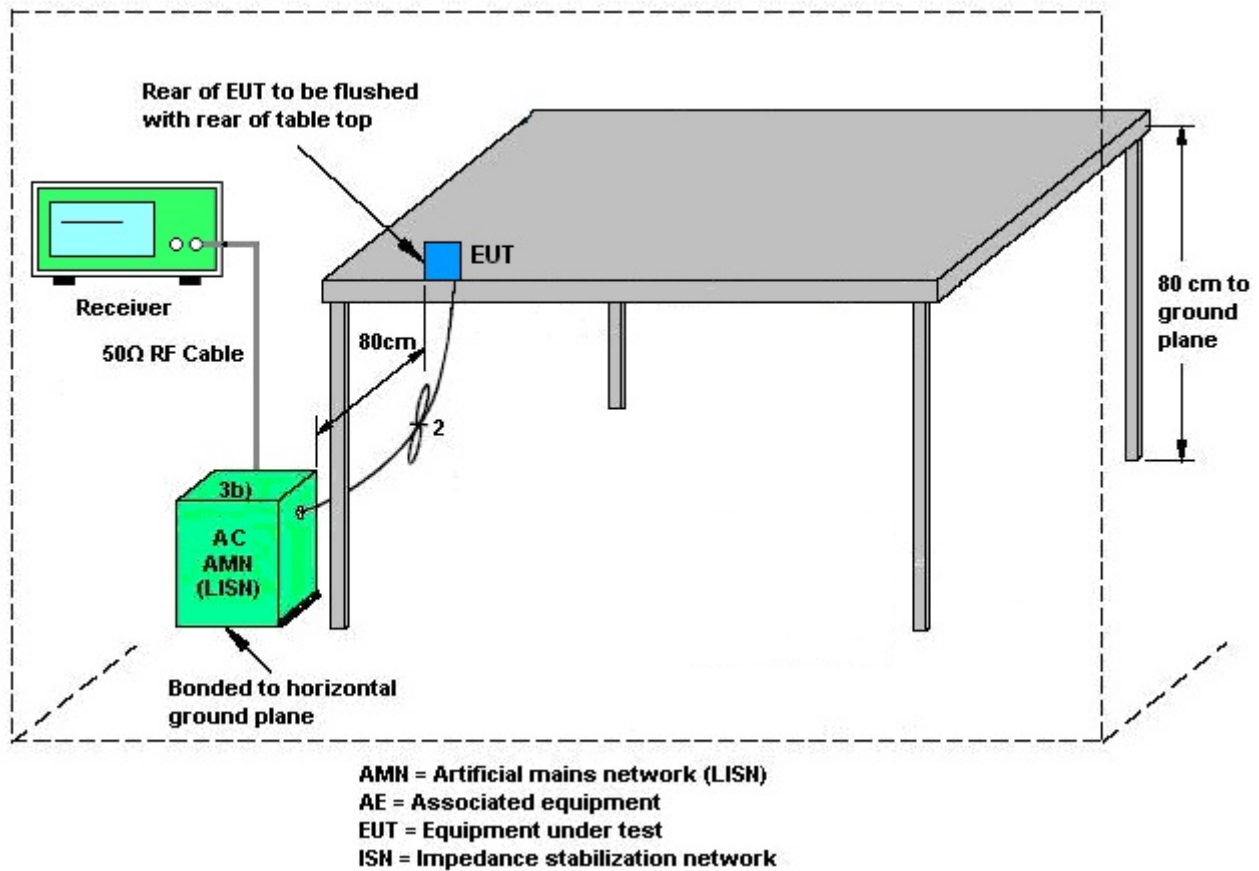
#### 3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

#### 3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer         | Model No.                | Serial No.   | Characteristics | Calibration Date | Test Date                   | Due Date      | Remark                |
|---------------------------|----------------------|--------------------------|--------------|-----------------|------------------|-----------------------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S                  | FSV40                    | 101078       | 10Hz~40GHz      | Apr. 06, 2023    | Sep. 28, 2023               | Apr. 05, 2024 | Conducted (TH01-SZ)   |
| Pulse Power Sensor        | Anritsu              | MA2411B                  | 1339473      | 30MHz~40GHz     | Dec. 27, 2022    | Sep. 28, 2023               | Dec. 26, 2023 | Conducted (TH01-SZ)   |
| Power Meter               | Anritsu              | ML2495A                  | 1542004      | 50MHz Bandwidth | Dec. 27, 2022    | Sep. 28, 2023               | Dec. 26, 2023 | Conducted (TH01-SZ)   |
| Attenuator                | MICROWAV             | EMVE2214-10              | 2            | 30MHz~26.5GHz   | Feb. 22, 2023    | Sep. 28, 2023               | Feb. 22, 2024 | Conducted (TH01-SZ)   |
| EMI Test Receiver&SA      | KEYSIGHT             | N9038A                   | MY54450083   | 20Hz~8.4GHz     | Apr. 04, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Apr. 03, 2024 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT             | N9010A                   | MY55150246   | 10Hz~44GHz;     | Apr. 04, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Apr. 03, 2024 | Radiation (03CH03-SZ) |
| Loop Antenna              | R&S                  | HFH2-Z2                  | 100354       | 9kHz~30MHz      | Jul. 28, 2022    | Oct. 10, 2023~Oct. 25, 2023 | Jul. 27, 2024 | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                | CBL6112D                 | 35408        | 30MHz~2GHz      | Aug. 20, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Aug. 19, 2024 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK          | BBHA9120D                | 9120D-1355   | 1GHz~18GHz      | Apr. 08, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Apr. 07, 2024 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                | TTA1840-35-HG            | 1871923      | 18GHz~40GHz     | Jul. 07, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Jul. 06, 2024 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power            | AH-840                   | 101071       | 18GHz~40GHz     | Apr. 08, 2023    | Oct. 10, 2023~Oct. 25, 2023 | Apr. 07, 2024 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon              | BPA-530                  | 102211       | 0.01Hz~3000MHz  | Oct. 19, 2022    | Oct. 10, 2023~Oct. 25, 2023 | Oct. 18, 2023 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon              | BPA-530                  | 102211       | 0.01Hz~3000MHz  | Oct. 18, 2023    |                             | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                | AMF-7D-00101800-30-10P-R | 1943528      | 1GHz~18GHz      | Oct. 19, 2022    | Oct. 10, 2023~Oct. 25, 2023 | Oct. 18, 2023 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                | AMF-7D-00101800-30-10P-R | 1943528      | 1GHz~18GHz      | Oct. 18, 2023    |                             | Oct. 17, 2024 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies | 83017A                   | MY39501302   | 500MHz~26.5GHz  | Dec. 26, 2022    | Oct. 10, 2023~Oct. 25, 2023 | Dec. 25, 2023 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma               | 61601                    | 616010002729 | 1 N/A           | Nov. 10, 2022    | Oct. 10, 2023~Oct. 25, 2023 | Nov. 09, 2023 | Radiation (03CH03-SZ) |
| Turn Table                | EM                   | EM1000                   | N/A          | 0~360 degree    | NCR              | Oct. 10, 2023~Oct. 25, 2023 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                   | EM1000                   | N/A          | 1 m~4 m         | NCR              | Oct. 10, 2023~Oct. 25, 2023 | NCR           | Radiation (03CH03-SZ) |
| EMI Receiver              | R&S                  | ESR7                     | 102297       | 9kHz~7GHz;      | Jul. 07, 2023    | Oct. 31, 2023               | Jul. 06, 2024 | Conduction (CO02-SZ)  |
| AC LISN                   | R&S                  | ENV216                   | 101499       | 9kHz~30MHz      | Jul. 07, 2023    | Oct. 31, 2023               | Jul. 06, 2024 | Conduction (CO02-SZ)  |
| AC Power Source           | CHROMA               | 61601                    | 616010002470 | 100Vac~250Vac   | Nov. 10, 2022    | Oct. 31, 2023               | Nov. 09, 2023 | Conduction (CO02-SZ)  |

NCR: No Calibration Required

## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

| Test Item                              | Uncertainty |
|----------------------------------------|-------------|
| Conducted Spurious Emission & Bandedge | ±1.34 dB    |
| Occupied Channel Bandwidth             | ±0.1%       |
| Conducted Power                        | ±1.34 dB    |
| Frequency                              | ±1.3 Hz     |

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.7dB |
|---------------------------------------------------------------------|-------|

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

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.9dB |
|---------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|                                                                     |       |
|---------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.0dB |
|---------------------------------------------------------------------|-------|

----- THE END -----



## **Appendix A. Conducted Test Results**

|                |             |                    |       |    |
|----------------|-------------|--------------------|-------|----|
| Test Engineer: | Liu Qiu Qiu | Temperature:       | 24~26 | °C |
| Test Date:     | 2023/9/28   | Relative Humidity: | 50~53 | %  |

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|--------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| Zigbee | 250K      | 1   | 11  | 2405        | 2.577                 | 1.630        | 0.50               | Pass      |
| Zigbee | 250K      | 1   | 17  | 2435        | 2.572                 | 1.750        | 0.50               | Pass      |
| Zigbee | 250K      | 1   | 25  | 2475        | 2.542                 | 1.620        | 0.50               | Pass      |

**TEST RESULTS DATA**  
**Peak Power Table**

| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|--------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| Zigbee | 250K      | 1   | 11  | 2405        | 18.26                      | 30.00                       | 4.00     | 22.26            | 36.00                  | Pass       |
| Zigbee | 250K      | 1   | 17  | 2435        | 18.28                      | 30.00                       | 4.00     | 22.28            | 36.00                  | Pass       |
| Zigbee | 250K      | 1   | 25  | 2475        | 14.27                      | 30.00                       | 4.00     | 18.27            | 36.00                  | Pass       |

**TEST RESULTS DATA**  
**Average Power Table**  
**(Reporting Only)**

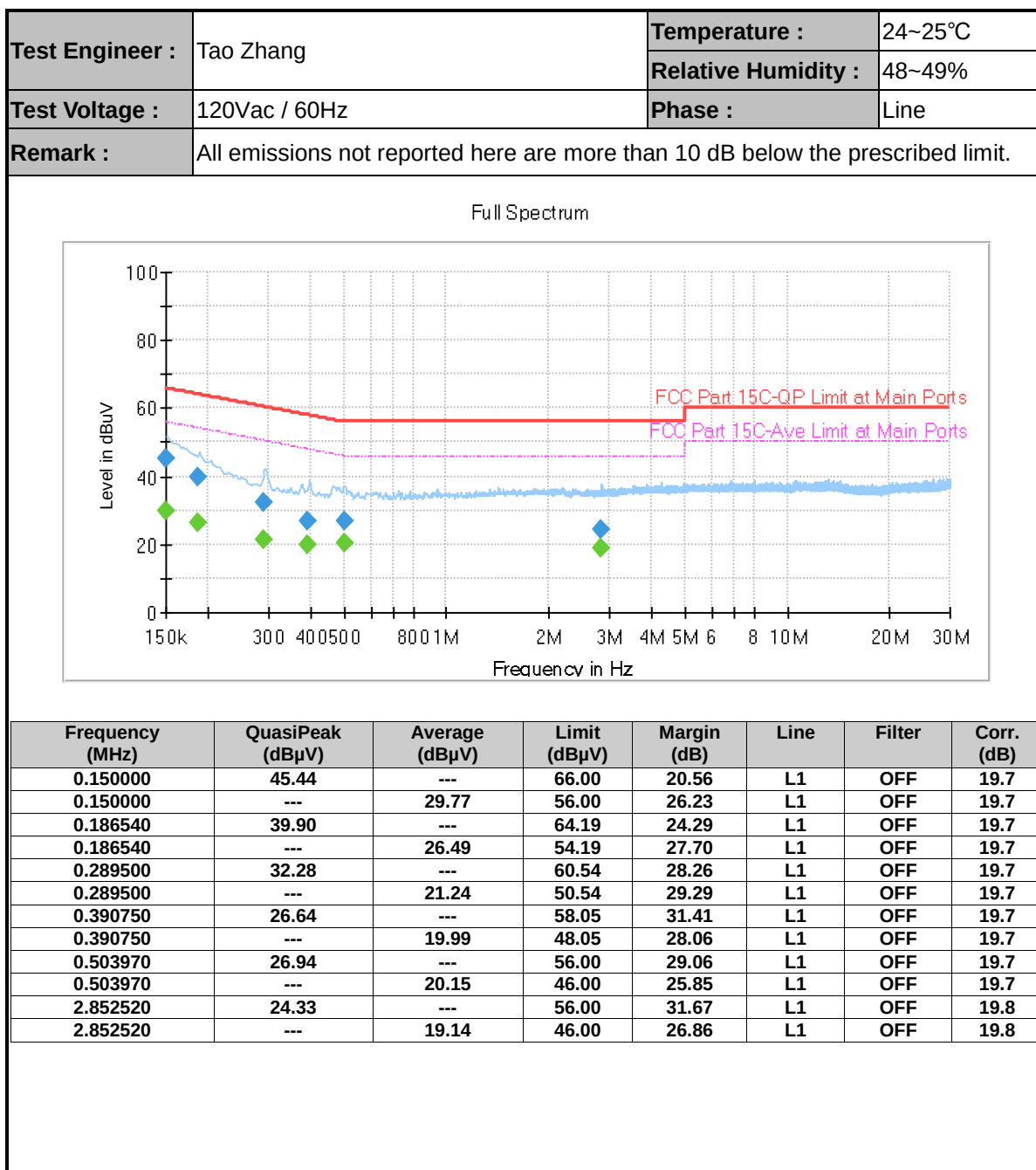
| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | Power Setting |
|--------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------|
| Zigbee | 250K      | 1   | 11  | 2405        | 0.00             | 18.20                         | 20            |
| Zigbee | 250K      | 1   | 17  | 2435        | 0.00             | 18.20                         | 20            |
| Zigbee | 250K      | 1   | 25  | 2475        | 0.00             | 14.10                         | 17            |

**TEST RESULTS DATA**  
**Peak Power Density**

| Mod.   | Data Rate | NTX | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|--------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| Zigbee | 250K      | 1   | 11  | 2405        | 14.24                  | 4.41                 | 4.00     | 8.00                       | Pass      |
| Zigbee | 250K      | 1   | 17  | 2435        | 14.36                  | 3.05                 | 4.00     | 8.00                       | Pass      |
| Zigbee | 250K      | 1   | 25  | 2475        | 10.77                  | 0.90                 | 4.00     | 8.00                       | Pass      |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

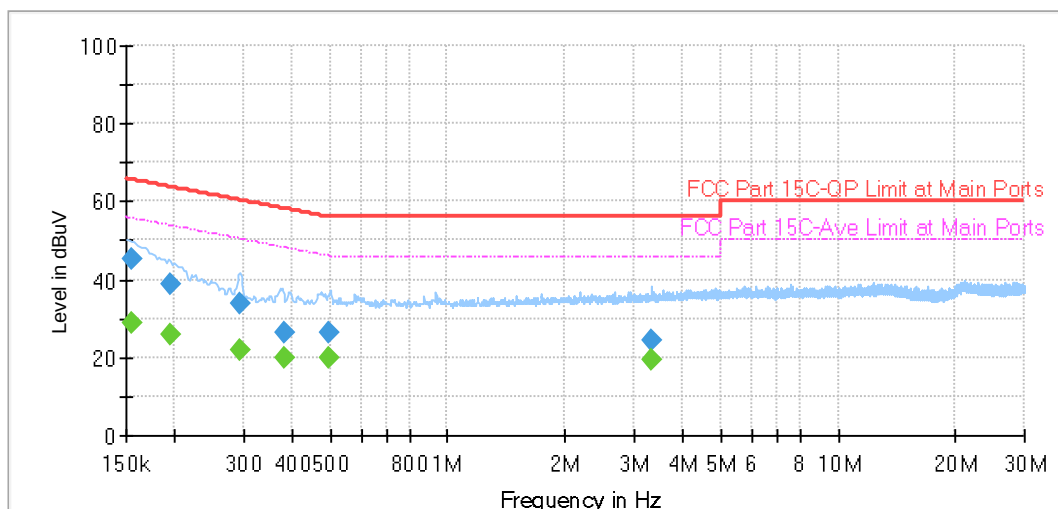
## Appendix B. AC Conducted Emission Test Results





|                 |                                                                                 |                     |         |
|-----------------|---------------------------------------------------------------------------------|---------------------|---------|
| Test Engineer : | Tao Zhang                                                                       | Temperature :       | 24~25°C |
|                 |                                                                                 | Relative Humidity : | 48~49%  |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Neutral |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |         |

Full Spectrum



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|------|--------|------------|
| 0.155490        | 45.40            | ---            | 65.70        | 20.30       | N    | OFF    | 19.7       |
| 0.155490        | ---              | 28.65          | 55.70        | 27.05       | N    | OFF    | 19.7       |
| 0.195000        | 38.80            | ---            | 63.82        | 25.02       | N    | OFF    | 19.7       |
| 0.195000        | ---              | 25.77          | 53.82        | 28.05       | N    | OFF    | 19.7       |
| 0.293010        | 34.02            | ---            | 60.44        | 26.42       | N    | OFF    | 19.7       |
| 0.293010        | ---              | 21.70          | 50.44        | 28.74       | N    | OFF    | 19.7       |
| 0.381750        | 26.44            | ---            | 58.24        | 31.80       | N    | OFF    | 19.7       |
| 0.381750        | ---              | 19.96          | 48.24        | 28.28       | N    | OFF    | 19.7       |
| 0.496500        | 26.61            | ---            | 56.06        | 29.45       | N    | OFF    | 19.7       |
| 0.496500        | ---              | 20.07          | 46.06        | 25.99       | N    | OFF    | 19.7       |
| 3.321330        | 24.43            | ---            | 56.00        | 31.57       | N    | OFF    | 19.8       |
| 3.321330        | ---              | 19.19          | 46.00        | 26.81       | N    | OFF    | 19.8       |



## Appendix C. Radiated Spurious Emission

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Reid Huang | Temperature :       | 24~25°C |
|                 |            | Relative Humidity : | 48~49%  |

## 2.4GHz 2400~2483.5MHz

## Zigbee (Band Edge @ 3m)

| Zigbee                    | Note                                                                                        | Frequency | Level      | Margin | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.    |
|---------------------------|---------------------------------------------------------------------------------------------|-----------|------------|--------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
|                           |                                                                                             | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV )   | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | ( P/A )   | ( H/V ) |
| Zigbee<br>CH11<br>2405MHz |                                                                                             | 2379.09   | 50.35      | -23.65 | 74         | 48.63      | 30.63          | 4.77      | 33.68         | 146     | 67        | P         | H       |
|                           |                                                                                             | 2368.59   | 39.64      | -14.36 | 54         | 37.92      | 30.63          | 4.77      | 33.68         | 146     | 67        | A         | H       |
|                           | *                                                                                           | 2405      | 105.22     | -      | -          | 103.44     | 30.63          | 4.81      | 33.66         | 146     | 67        | P         | H       |
|                           | *                                                                                           | 2405      | 103.2      | -      | -          | 101.42     | 30.63          | 4.81      | 33.66         | 146     | 67        | A         | H       |
|                           |                                                                                             | 2389.17   | 55.82      | -18.18 | 74         | 54.07      | 30.6           | 4.81      | 33.66         | 107     | 67        | P         | V       |
|                           |                                                                                             | 2390      | 45.74      | -8.26  | 54         | 43.99      | 30.6           | 4.81      | 33.66         | 107     | 67        | A         | V       |
|                           | *                                                                                           | 2405      | 115.44     | -      | -          | 113.66     | 30.63          | 4.81      | 33.66         | 107     | 67        | P         | V       |
|                           | *                                                                                           | 2405      | 113.48     | -      | -          | 111.7      | 30.63          | 4.81      | 33.66         | 107     | 67        | A         | V       |
| Zigbee<br>CH25<br>2475MHz | *                                                                                           | 2475      | 102.42     | -      | -          | 100.29     | 30.83          | 4.92      | 33.62         | 103     | 79        | P         | H       |
|                           | *                                                                                           | 2475      | 100.46     | -      | -          | 98.33      | 30.83          | 4.92      | 33.62         | 103     | 79        | A         | H       |
|                           |                                                                                             | 2484.32   | 52.68      | -21.32 | 74         | 50.55      | 30.83          | 4.92      | 33.62         | 103     | 79        | P         | H       |
|                           |                                                                                             | 2483.52   | 41.75      | -12.25 | 54         | 39.62      | 30.83          | 4.92      | 33.62         | 103     | 79        | A         | H       |
|                           | *                                                                                           | 2475      | 110.17     | -      | -          | 108.04     | 30.83          | 4.92      | 33.62         | 100     | 69        | P         | V       |
|                           | *                                                                                           | 2475      | 108.15     | -      | -          | 106.02     | 30.83          | 4.92      | 33.62         | 100     | 69        | A         | V       |
|                           |                                                                                             | 2483.52   | 58.52      | -15.48 | 74         | 56.39      | 30.83          | 4.92      | 33.62         | 100     | 69        | P         | V       |
|                           |                                                                                             | 2483.52   | 49.21      | -4.79  | 54         | 47.08      | 30.83          | 4.92      | 33.62         | 100     | 69        | A         | V       |
| Remark                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |            |        |            |            |                |           |               |         |           |           |         |



## 2.4GHz 2400~2483.5MHz

## Zigbee (Harmonic @ 3m)

| Zigbee                    | Note                                                                                        | Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Margin<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>( dBμV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>( P/A ) | Pol.<br>( H/V ) |
|---------------------------|---------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| Zigbee<br>CH11<br>2405MHz |                                                                                             | 4810                 | 40.15               | -33.85           | 74                          | 55.64                     | 34.23                         | 7.75                   | 57.47                      | -                    | -                       | P                       | H               |
|                           |                                                                                             | 4810                 | 40.84               | -33.16           | 74                          | 56.33                     | 34.23                         | 7.75                   | 57.47                      | -                    | -                       | P                       | V               |
| Zigbee<br>CH17<br>2437MHz |                                                                                             | 4870                 | 42.67               | -31.33           | 74                          | 58.1                      | 34.33                         | 7.76                   | 57.52                      | -                    | -                       | P                       | H               |
|                           |                                                                                             | 7305                 | 43.67               | -30.33           | 74                          | 58.2                      | 35.44                         | 8.95                   | 58.92                      | -                    | -                       | P                       | H               |
|                           |                                                                                             | 4870                 | 42.73               | -31.27           | 74                          | 58.16                     | 34.33                         | 7.76                   | 57.52                      | -                    | -                       | P                       | V               |
|                           |                                                                                             | 7305                 | 43.63               | -30.37           | 74                          | 58.16                     | 35.44                         | 8.95                   | 58.92                      | -                    | -                       | P                       | V               |
| Zigbee<br>CH25<br>2475MHz |                                                                                             | 4950                 | 41.66               | -32.34           | 74                          | 56.99                     | 34.43                         | 7.8                    | 57.56                      | -                    | -                       | P                       | H               |
|                           |                                                                                             | 7425                 | 43.47               | -30.53           | 74                          | 57.84                     | 35.41                         | 9.19                   | 58.97                      | -                    | -                       | P                       | H               |
|                           |                                                                                             | 4950                 | 41.4                | -32.6            | 74                          | 56.73                     | 34.43                         | 7.8                    | 57.56                      | -                    | -                       | P                       | V               |
|                           |                                                                                             | 7425                 | 42.9                | -31.1            | 74                          | 57.27                     | 35.41                         | 9.19                   | 58.97                      | -                    | -                       | P                       | V               |
| Remark                    | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                     |                  |                             |                           |                               |                        |                            |                      |                         |                         |                 |

**Emission below 1GHz**
**2.4GHz Zigbee (LF)**

| BLE                          | Note                                                                       | Frequency | Level      | Margin | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|------------------------------|----------------------------------------------------------------------------|-----------|------------|--------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
|                              |                                                                            | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV)     | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| <b>2.4GHz<br/>BLE<br/>LF</b> |                                                                            | 142.52    | 22.21      | -21.29 | 43.5       | 37.33      | 18.35          | 1.25      | 34.72         | -       | -         | P         | H     |
|                              |                                                                            | 287.05    | 22.31      | -23.69 | 46         | 36.45      | 18.72          | 1.76      | 34.62         | -       | -         | P         | H     |
|                              |                                                                            | 353.98    | 24.36      | -21.64 | 46         | 36.69      | 20.31          | 1.95      | 34.59         | -       | -         | P         | H     |
|                              |                                                                            | 669.23    | 25.93      | -20.07 | 46         | 31.07      | 26.58          | 2.74      | 34.46         | -       | -         | P         | H     |
|                              |                                                                            | 859.35    | 29.44      | -16.56 | 46         | 31.86      | 28.77          | 3.11      | 34.3          | -       | -         | P         | H     |
|                              |                                                                            | 948.59    | 31.08      | -14.92 | 46         | 32.38      | 29.74          | 3.26      | 34.3          | -       | -         | P         | H     |
|                              |                                                                            | 33.88     | 24.98      | -15.02 | 40         | 40.85      | 18.46          | 0.57      | 34.9          | -       | -         | P         | V     |
|                              |                                                                            | 98.87     | 25.67      | -17.83 | 43.5       | 44.65      | 14.78          | 1.04      | 34.8          | -       | -         | P         | V     |
|                              |                                                                            | 141.55    | 22.03      | -21.47 | 43.5       | 37.23      | 18.27          | 1.25      | 34.72         | -       | -         | P         | V     |
|                              |                                                                            | 536.34    | 23.95      | -22.05 | 46         | 32.04      | 23.96          | 2.45      | 34.5          | -       | -         | P         | V     |
|                              |                                                                            | 744.89    | 27.11      | -18.89 | 46         | 31.03      | 27.54          | 2.94      | 34.4          | -       | -         | P         | V     |
|                              |                                                                            | 948.59    | 30.37      | -15.63 | 46         | 31.67      | 29.74          | 3.26      | 34.3          | -       | -         | P         | V     |
| <b>Remark</b>                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |            |        |            |            |                |           |               |         |           |           |       |

**Note symbol**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>Margin</b> line.                                                                                                                       |
| P/A | <b>Peak</b> or <b>Average</b>                                                                                                                            |
| H/V | <b>Horizontal</b> or <b>Vertical</b>                                                                                                                     |



A calculation example for radiated spurious emission is shown as below:

| BLE                     | Note | Frequency | Level      | Margin | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|-------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
|                         |      |           |            |        | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
|                         |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| BLE<br>CH 00<br>2402MHz |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
|                         |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

#### For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

#### For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



## **Appendix D. Radiated Spurious Emission Plots**

### **Note symbol**

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



## 2.4GHz 2400~2483.5MHz

## Zigbee (Band Edge @ 3m)

| Zigbee | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |              |             |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------|--------|--------|---------------------------|-------|--------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|--------|----|----|-----|---|---------|-------|--------|-------|-------|-------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------------|-------|--------|-------|-------|--------|------|-------|------|--------------|-------------|--|--|--|-----|--------|----|--------|--------|----|----|-----|-----|---------|--------|-------|-------|--------|-------|---------------------------|
| ANT    | Zigbee CH11 2405MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |              |             |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
|        | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fundamental |              |             |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Peak   | <div><p>Date: 1<br/>Level (dBuV/m)<br/>125<br/>109.4<br/>93.8<br/>78.1<br/>62.5<br/>46.9<br/>31.3<br/>15.6<br/>2310 2331 2352 2373 2394 2415<br/>Frequency (MHz)<br/>Date: 2023-10-10</p><p>1 2379.89 58.35 -23.65 74.88 48.63 38.63 4.77 33.68 146 67 Peak</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2379.89</td><td>58.35</td><td>-23.65</td><td>74.88</td><td>48.63</td><td>38.63</td><td>4.77 33.68 146 67 Peak</td></tr></table></div>       | Over        | Limit        | ReadAntenna | Cable  | Preamp | A/Pos                     | T/Pos | Remark | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 | 2379.89 | 58.35 | -23.65 | 74.88 | 48.63 | 38.63 | 4.77 33.68 146 67 Peak    | <div><p>Date: 3<br/>Level (dBuV/m)<br/>125<br/>109.4<br/>93.8<br/>78.1<br/>62.5<br/>46.9<br/>31.3<br/>15.6<br/>1000 1400 1800 2200 2600 3000<br/>Frequency (MHz)<br/>Date: 2023-10-10</p><p>1 * 2405.00 185.22 31.22 74.88 183.44 38.63 4.81 33.66 146 67 Peak</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2405.00</td><td>185.22</td><td>31.22</td><td>74.88</td><td>183.44</td><td>38.63</td><td>4.81 33.66 146 67 Peak</td></tr></table></div>       | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 * | 2405.00 | 185.22 | 31.22 | 74.88 | 183.44 | 38.63 | 4.81 33.66 146 67 Peak    |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ReadAntenna | Cable        | Preamp      | A/Pos  | T/Pos  | Remark                    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Line        | Level Factor | Loss Factor |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dB          | dBuV/m       | dBuV/m      | dB     | cm     | deg                       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| 1      | 2379.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 58.35       | -23.65       | 74.88       | 48.63  | 38.63  | 4.77 33.68 146 67 Peak    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ReadAntenna | Cable        | Preamp      | A/Pos  | T/Pos  | Remark                    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Line        | Level Factor | Loss Factor |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dB          | dBuV/m       | dBuV/m      | dB     | cm     | deg                       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| 1 *    | 2405.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 185.22      | 31.22        | 74.88       | 183.44 | 38.63  | 4.81 33.66 146 67 Peak    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Avg.   | <div><p>Date: 2<br/>Level (dBuV/m)<br/>125<br/>109.4<br/>93.8<br/>78.1<br/>62.5<br/>46.9<br/>31.3<br/>15.6<br/>2310 2331 2352 2373 2394 2415<br/>Frequency (MHz)<br/>Date: 2023-10-10</p><p>1 2368.59 39.64 -34.36 54.88 37.92 38.63 4.77 33.68 146 67 Average</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2368.59</td><td>39.64</td><td>-34.36</td><td>54.88</td><td>37.92</td><td>38.63</td><td>4.77 33.68 146 67 Average</td></tr></table></div> | Over        | Limit        | ReadAntenna | Cable  | Preamp | A/Pos                     | T/Pos | Remark | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 | 2368.59 | 39.64 | -34.36 | 54.88 | 37.92 | 38.63 | 4.77 33.68 146 67 Average | <div><p>Date: 4<br/>Level (dBuV/m)<br/>125<br/>109.4<br/>93.8<br/>78.1<br/>62.5<br/>46.9<br/>31.3<br/>15.6<br/>1000 1400 1800 2200 2600 3000<br/>Frequency (MHz)<br/>Date: 2023-10-10</p><p>1 * 2405.00 183.28 49.20 54.88 181.42 38.63 4.81 33.66 146 67 Average</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2405.00</td><td>183.28</td><td>49.20</td><td>54.88</td><td>181.42</td><td>38.63</td><td>4.81 33.66 146 67 Average</td></tr></table></div> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Line | Level Factor | Loss Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | cm | deg | 1 * | 2405.00 | 183.28 | 49.20 | 54.88 | 181.42 | 38.63 | 4.81 33.66 146 67 Average |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ReadAntenna | Cable        | Preamp      | A/Pos  | T/Pos  | Remark                    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Line        | Level Factor | Loss Factor |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dB          | dBuV/m       | dBuV/m      | dB     | cm     | deg                       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| 1      | 2368.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 39.64       | -34.36       | 54.88       | 37.92  | 38.63  | 4.77 33.68 146 67 Average |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ReadAntenna | Cable        | Preamp      | A/Pos  | T/Pos  | Remark                    |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Line        | Level Factor | Loss Factor |        |        |                           |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dB          | dBuV/m       | dBuV/m      | dB     | cm     | deg                       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |
| 1 *    | 2405.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 183.28      | 49.20        | 54.88       | 181.42 | 38.63  | 4.81 33.66 146 67 Average |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |   |         |       |        |       |       |       |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |       |             |       |        |       |       |        |      |       |      |              |             |  |  |  |     |        |    |        |        |    |    |     |     |         |        |       |       |        |       |                           |



| Zigbee |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.4GHz 2400~2483.5MHz Band Edge @ 3m |        |              |             |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------|--------------|-------------|--------|--------|-------|--------|------------|-------|-------|------|--------------|-------------|--|--|-----|--------|----|--------|------|------|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------------|-------|--------|-------|-------|--------|------|-------|-------|------|--------------|-------------|--|--|-----|--------|----|--------|------|------|----|----|-----|-----|---------|--------|-------|-------|--------|-------|------|-------|-----|------------|
| ANT    | Zigbee CH11 2405MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |        |              |             |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
|        | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fundamental                          |        |              |             |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Peak   | <div><div><div>Date: 5</div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2389.17</td><td>55.82</td><td>-18.18</td><td>74.00</td><td>54.87</td><td>30.00</td><td>4.81</td><td>33.66</td><td>187</td><td>67 Peak</td></tr></table></div>   | Over                                 | Limit  | ReadAntenna  | Cable       | Preamp | A/Pos  | T/Pos | Remark | Freq       | Level | Limit | Line | Level Factor | Loss Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2389.17 | 55.82 | -18.18 | 74.00 | 54.87 | 30.00 | 4.81 | 33.66 | 187 | 67 Peak    | <div><div><div>Date: 7</div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2405.00</td><td>115.44</td><td>41.44</td><td>74.00</td><td>113.66</td><td>38.63</td><td>4.81</td><td>33.66</td><td>187</td><td>67 Peak</td></tr></table></div>    | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level Factor | Loss Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 * | 2405.00 | 115.44 | 41.44 | 74.00 | 113.66 | 38.63 | 4.81 | 33.66 | 187 | 67 Peak    |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReadAntenna                          | Cable  | Preamp       | A/Pos       | T/Pos  | Remark |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit                                | Line   | Level Factor | Loss Factor |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB                                   | dBuV/m | dBuV         | dB/m        | dB     | cm     | deg   |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| 1      | 2389.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55.82                                | -18.18 | 74.00        | 54.87       | 30.00  | 4.81   | 33.66 | 187    | 67 Peak    |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReadAntenna                          | Cable  | Preamp       | A/Pos       | T/Pos  | Remark |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit                                | Line   | Level Factor | Loss Factor |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB                                   | dBuV/m | dBuV         | dB/m        | dB     | cm     | deg   |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| 1 *    | 2405.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 115.44                               | 41.44  | 74.00        | 113.66      | 38.63  | 4.81   | 33.66 | 187    | 67 Peak    |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Avg    | <div><div><div>Date: 6</div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2390.00</td><td>45.74</td><td>-8.26</td><td>54.00</td><td>43.99</td><td>30.00</td><td>4.81</td><td>33.66</td><td>187</td><td>67 Average</td></tr></table></div> | Over                                 | Limit  | ReadAntenna  | Cable       | Preamp | A/Pos  | T/Pos | Remark | Freq       | Level | Limit | Line | Level Factor | Loss Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2390.00 | 45.74 | -8.26  | 54.00 | 43.99 | 30.00 | 4.81 | 33.66 | 187 | 67 Average | <div><div><div>Date: 8</div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2405.00</td><td>113.48</td><td>59.48</td><td>54.00</td><td>111.70</td><td>38.63</td><td>4.81</td><td>33.66</td><td>187</td><td>67 Average</td></tr></table></div> | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level Factor | Loss Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 * | 2405.00 | 113.48 | 59.48 | 54.00 | 111.70 | 38.63 | 4.81 | 33.66 | 187 | 67 Average |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReadAntenna                          | Cable  | Preamp       | A/Pos       | T/Pos  | Remark |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit                                | Line   | Level Factor | Loss Factor |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB                                   | dBuV/m | dBuV         | dB/m        | dB     | cm     | deg   |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| 1      | 2390.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 45.74                                | -8.26  | 54.00        | 43.99       | 30.00  | 4.81   | 33.66 | 187    | 67 Average |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReadAntenna                          | Cable  | Preamp       | A/Pos       | T/Pos  | Remark |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit                                | Line   | Level Factor | Loss Factor |        |        |       |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB                                   | dBuV/m | dBuV         | dB/m        | dB     | cm     | deg   |        |            |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |
| 1 *    | 2405.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 113.48                               | 59.48  | 54.00        | 111.70      | 38.63  | 4.81   | 33.66 | 187    | 67 Average |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       |             |       |        |       |       |        |      |       |       |      |              |             |  |  |     |        |    |        |      |      |    |    |     |     |         |        |       |       |        |       |      |       |     |            |



| Zigbee | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |             |        |        |       |             |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|--------|--------|-------|-------------|--------|-------------|-------|---------|-------|-------|--------|------|-------|-------|------|-------|--------|------|--------|-----|--------|----|--------|--------|----|----|----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|------|-------|-------------|-------|--------|-------|-------|--------|------|-------|-------|------|-------|--------|------|--------|-----|--------|----|--------|--------|----|----|----|---|---------|--------|-------|-------|--------|-------|------|-------|-----|----|---------|
| ANT    | Zigbee CH25 2475MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |             |        |        |       |             |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
|        | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |             |        |        |       | Fundamental |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Peak   | <div><p>Date: 3<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>2475.32</td><td>52.68</td><td>-21.32</td><td>74.00</td><td>58.55</td><td>38.83</td><td>4.92</td><td>33.62</td><td>183</td><td>79</td><td>Peak</td></tr></table></div>    |             |             |        |        |       | Over        | Limit  | ReadAntenna | Cable | Preamp  | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 2475.32 | 52.68 | -21.32 | 74.00 | 58.55 | 38.83 | 4.92 | 33.62 | 183 | 79 | Peak    | <div><p>Date: 1<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>2475.00</td><td>182.42</td><td>28.42</td><td>74.00</td><td>180.29</td><td>38.83</td><td>4.92</td><td>33.62</td><td>183</td><td>79</td><td>Peak</td></tr></table></div>   |  |  |  |  |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 2475.00 | 182.42 | 28.42 | 74.00 | 180.29 | 38.83 | 4.92 | 33.62 | 183 | 79 | Peak    |
|        | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos       | Remark |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit       | Line        | Level  | Factor | Loss  | Factor      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | dB          | dBuV/m      | dBuV/m | dB     | dB    | cm          |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 52.68       | -21.32      | 74.00  | 58.55  | 38.83 | 4.92        | 33.62  | 183         | 79    | Peak    |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit       | Line        | Level  | Factor | Loss  | Factor      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | dB          | dBuV/m      | dBuV/m | dB     | dB    | cm          |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 182.42      | 28.42       | 74.00  | 180.29 | 38.83 | 4.92        | 33.62  | 183         | 79    | Peak    |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Avg.   | <div><p>Date: 4<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>2475.32</td><td>41.75</td><td>-12.25</td><td>54.00</td><td>39.62</td><td>38.83</td><td>4.92</td><td>33.62</td><td>183</td><td>79</td><td>Average</td></tr></table></div> |             |             |        |        |       | Over        | Limit  | ReadAntenna | Cable | Preamp  | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 2475.32 | 41.75 | -12.25 | 54.00 | 39.62 | 38.83 | 4.92 | 33.62 | 183 | 79 | Average | <div><p>Date: 2<br/>Level (dBuV/m)</p><p>Frequency (MHz)</p><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>2475.00</td><td>180.46</td><td>46.46</td><td>54.00</td><td>98.33</td><td>38.83</td><td>4.92</td><td>33.62</td><td>183</td><td>79</td><td>Average</td></tr></table></div> |  |  |  |  |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 2475.00 | 180.46 | 46.46 | 54.00 | 98.33  | 38.83 | 4.92 | 33.62 | 183 | 79 | Average |
|        | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Limit       | ReadAntenna | Cable  | Preamp | A/Pos | T/Pos       | Remark |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit       | Line        | Level  | Factor | Loss  | Factor      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | dB          | dBuV/m      | dBuV/m | dB     | dB    | cm          |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 41.75       | -12.25      | 54.00  | 39.62  | 38.83 | 4.92        | 33.62  | 183         | 79    | Average |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos | Remark      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit       | Line        | Level  | Factor | Loss  | Factor      |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | dB          | dBuV/m      | dBuV/m | dB     | dB    | cm          |        |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180.46      | 46.46       | 54.00  | 98.33  | 38.83 | 4.92        | 33.62  | 183         | 79    | Average |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |        |    |    |    |   |         |        |       |       |        |       |      |       |     |    |         |



| Zigbee | 2.4GHz 2400~2483.5MHz Band Edge @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |        |        |        |       |             |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------|--------|-------|-------------|-------|-------------|-------|---------|-------|-------|--------|------|-------|-------|------|-------|--------|------|--------|-----|--------|----|--------|------|------|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------|-------|-------------|-------|--------|-------|-------|--------|------|-------|-------|------|-------|--------|------|--------|-----|--------|----|--------|------|------|----|----|-----|---|---------|--------|-------|-------|--------|-------|------|-------|-----|----|---------|
| ANT    | Zigbee CH25 2475MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |        |        |        |       |             |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
|        | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |        |        |        |       | Fundamental |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Peak   | <div><div><div>Date: 7</div><div>Level (dBuV/m)</div><div>Date: 2023-10-10</div></div><div><div>Frequency (MHz)</div></div><div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.52</td><td>58.52</td><td>-15.48</td><td>74.00</td><td>56.39</td><td>30.83</td><td>4.92</td><td>33.62</td><td>100</td><td>69</td><td>Peak</td></tr></table></div></div>   |             |        |        |        |       | Over        | Limit | ReadAntenna | Cable | Preamp  | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2483.52 | 58.52 | -15.48 | 74.00 | 56.39 | 30.83 | 4.92 | 33.62 | 100 | 69 | Peak    | <div><div><div>Date: 5</div><div>Level (dBuV/m)</div><div>Date: 2023-10-10</div></div><div><div>Frequency (MHz)</div></div><div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2475.00</td><td>118.17</td><td>36.17</td><td>74.00</td><td>108.04</td><td>30.83</td><td>4.92</td><td>33.62</td><td>100</td><td>69</td><td>Peak</td></tr></table></div></div>    |  |  |  |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2475.00 | 118.17 | 36.17 | 74.00 | 108.04 | 30.83 | 4.92 | 33.62 | 100 | 69 | Peak    |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos | Remark      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit       | Line   | Level  | Factor | Loss  | Factor      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dB          | dBuV/m | dBuV   | dB/m   | dB    | cm          | deg   |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2483.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 58.52       | -15.48 | 74.00  | 56.39  | 30.83 | 4.92        | 33.62 | 100         | 69    | Peak    |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos | Remark      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit       | Line   | Level  | Factor | Loss  | Factor      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dB          | dBuV/m | dBuV   | dB/m   | dB    | cm          | deg   |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 118.17      | 36.17  | 74.00  | 108.04 | 30.83 | 4.92        | 33.62 | 100         | 69    | Peak    |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Avg.   | <div><div><div>Date: 8</div><div>Level (dBuV/m)</div><div>Date: 2023-10-10</div></div><div><div>Frequency (MHz)</div></div><div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.52</td><td>49.21</td><td>-4.79</td><td>54.00</td><td>47.68</td><td>30.83</td><td>4.92</td><td>33.62</td><td>100</td><td>69</td><td>Average</td></tr></table></div></div> |             |        |        |        |       | Over        | Limit | ReadAntenna | Cable | Preamp  | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2483.52 | 49.21 | -4.79  | 54.00 | 47.68 | 30.83 | 4.92 | 33.62 | 100 | 69 | Average | <div><div><div>Date: 6</div><div>Level (dBuV/m)</div><div>Date: 2023-10-10</div></div><div><div>Frequency (MHz)</div></div><div><table><tr><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2475.00</td><td>108.15</td><td>54.15</td><td>54.00</td><td>106.62</td><td>30.83</td><td>4.92</td><td>33.62</td><td>100</td><td>69</td><td>Average</td></tr></table></div></div> |  |  |  |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | 1 | 2475.00 | 108.15 | 54.15 | 54.00 | 106.62 | 30.83 | 4.92 | 33.62 | 100 | 69 | Average |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos | Remark      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit       | Line   | Level  | Factor | Loss  | Factor      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dB          | dBuV/m | dBuV   | dB/m   | dB    | cm          | deg   |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2483.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 49.21       | -4.79  | 54.00  | 47.68  | 30.83 | 4.92        | 33.62 | 100         | 69    | Average |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Over   | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos | Remark      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| Freq   | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit       | Line   | Level  | Factor | Loss  | Factor      |       |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| MHz    | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dB          | dBuV/m | dBuV   | dB/m   | dB    | cm          | deg   |             |       |         |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |
| 1      | 2475.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 108.15      | 54.15  | 54.00  | 106.62 | 30.83 | 4.92        | 33.62 | 100         | 69    | Average |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |       |        |       |       |       |      |       |     |    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |     |        |    |        |      |      |    |    |     |   |         |        |       |       |        |       |      |       |     |    |         |



2.4GHz 2400~2483.5MHz

Zigbee (Harmonic @ 3m)

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| Zigbee           | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| ANT              | Zigbee CH11 2405MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  | Vertical |  |  |  |  |  |
| Peak<br><br>Avg. | <div><div><div>Date: 13</div><div>Level (dBuV/m)</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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|  |  |  |  |  |          |  |  |  |  |  |



| Zigbee       | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |       |             |       |        |        |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|-------------|-------|--------|--------|-------|--------|------|-------|-------|------|-------|--------|------|--------|--|-----|--------|----|--------|------|------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|-------------|-------|--------|-------|-------|--------|------|-------|-------|------|-------|--------|------|--------|--|-----|--------|----|--------|------|------|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|
| ANT          | Zigbee CH17 2435MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |       |             |       |        |        |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
|              | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vertical |             |       |             |       |        |        |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| Peak<br>Avg. | <div><p>Date: 5<br/>Level (dBuV/m)</p><p>Date: 2023-10-10</p><p>PEAK_74<br/>AVG_54</p><table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4670.00</td><td>42.67</td><td>-31.33</td><td>74.00</td><td>58.18</td><td>34.33</td><td>7.76</td><td>57.52</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>7395.00</td><td>43.67</td><td>-30.33</td><td>74.00</td><td>58.28</td><td>35.44</td><td>8.95</td><td>58.92</td><td>---</td><td>---</td><td>Peak</td></tr></table></div> |          | Over        | Limit | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | 1 | 4670.00 | 42.67 | -31.33 | 74.00 | 58.18 | 34.33 | 7.76 | 57.52 | --- | --- | Peak | 2 | 7395.00 | 43.67 | -30.33 | 74.00 | 58.28 | 35.44 | 8.95 | 58.92 | --- | --- | Peak | <div><p>Date: 6<br/>Level (dBuV/m)</p><p>Date: 2023-10-10</p><p>PEAK_74<br/>AVG_54</p><table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4670.00</td><td>42.73</td><td>-31.27</td><td>74.00</td><td>58.16</td><td>34.33</td><td>7.76</td><td>57.52</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>7395.00</td><td>43.63</td><td>-30.37</td><td>74.00</td><td>58.16</td><td>35.44</td><td>8.95</td><td>58.92</td><td>---</td><td>---</td><td>Peak</td></tr></table></div> |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Line | Level | Factor | Loss | Factor |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | 1 | 4670.00 | 42.73 | -31.27 | 74.00 | 58.16 | 34.33 | 7.76 | 57.52 | --- | --- | Peak | 2 | 7395.00 | 43.63 | -30.37 | 74.00 | 58.16 | 35.44 | 8.95 | 58.92 | --- | --- | Peak |
|              | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit    | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| Freq         | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limit    | Line        | Level | Factor      | Loss  | Factor |        |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| MHz          | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB       | dBuV/m      | dBuV  | dB/m        | dB    | dB     | cm     | deg   |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| 1            | 4670.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42.67    | -31.33      | 74.00 | 58.18       | 34.33 | 7.76   | 57.52  | ---   | ---    | Peak |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| 2            | 7395.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 43.67    | -30.33      | 74.00 | 58.28       | 35.44 | 8.95   | 58.92  | ---   | ---    | Peak |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
|              | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit    | ReadAntenna | Cable | Preamp      | A/Pos | T/Pos  | Remark |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| Freq         | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limit    | Line        | Level | Factor      | Loss  | Factor |        |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| MHz          | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dB       | dBuV/m      | dBuV  | dB/m        | dB    | dB     | cm     | deg   |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| 1            | 4670.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42.73    | -31.27      | 74.00 | 58.16       | 34.33 | 7.76   | 57.52  | ---   | ---    | Peak |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |
| 2            | 7395.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 43.63    | -30.37      | 74.00 | 58.16       | 35.44 | 8.95   | 58.92  | ---   | ---    | Peak |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |       |             |       |        |       |       |        |      |       |       |      |       |        |      |        |  |     |        |    |        |      |      |    |    |    |     |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |      |



| Zigbee | 2.4GHz 2400~2483.5MHz Harmonic @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |             |       |        |        |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|--------|-------------|-------|--------|--------|-------|--------|--|------|-------|-------|-------|--------|------|--------|--|--|-----|--------|----|--------|--------|----|----|----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|-------------|-------|--------|-------|-------|--------|--|------|-------|-------|-------|--------|------|--------|--|--|-----|--------|----|--------|--------|----|----|----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|------|
| ANT    | Zigbee CH25 2475MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |        |             |       |        |        |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Vertical |             |        |             |       |        |        |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
| Peak   | <div><p>Date: 17<br/>Level (dBuV/m)</p><p>Date: 2023-10-10</p><p>PEAK_74<br/>AVG_54</p><table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>4958.88</td><td>41.66</td><td>-32.34</td><td>74.88</td><td>56.99</td><td>34.43</td><td>7.88</td><td>57.56</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>7425.88</td><td>43.47</td><td>-30.53</td><td>74.88</td><td>57.84</td><td>35.41</td><td>9.19</td><td>58.97</td><td>---</td><td>Peak</td></tr></table></div> |          | Over        | Limit  | ReadAntenna | Cable | Preamp | A/Pos  | T/Pos | Remark |  | Freq | Level | Limit | Level | Factor | Loss | Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 4958.88 | 41.66 | -32.34 | 74.88 | 56.99 | 34.43 | 7.88 | 57.56 | --- | Peak | 2 | 7425.88 | 43.47 | -30.53 | 74.88 | 57.84 | 35.41 | 9.19 | 58.97 | --- | Peak | <div><p>Date: 18<br/>Level (dBuV/m)</p><p>Date: 2023-10-10</p><p>PEAK_74<br/>AVG_54</p><table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>4958.88</td><td>41.68</td><td>-32.68</td><td>74.88</td><td>56.75</td><td>34.43</td><td>7.88</td><td>57.56</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>7425.88</td><td>42.98</td><td>-31.02</td><td>74.88</td><td>57.27</td><td>35.41</td><td>9.19</td><td>58.97</td><td>---</td><td>Peak</td></tr></table></div> |  | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark |  | Freq | Level | Limit | Level | Factor | Loss | Factor |  |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | 1 | 4958.88 | 41.68 | -32.68 | 74.88 | 56.75 | 34.43 | 7.88 | 57.56 | --- | Peak | 2 | 7425.88 | 42.98 | -31.02 | 74.88 | 57.27 | 35.41 | 9.19 | 58.97 | --- | Peak |
|        | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit    | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Level    | Limit       | Level  | Factor      | Loss  | Factor |        |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m   | dB          | dBuV/m | dBuV/m      | dB    | dB     | cm     |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
| 1      | 4958.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 41.66    | -32.34      | 74.88  | 56.99       | 34.43 | 7.88   | 57.56  | ---   | Peak   |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
| 2      | 7425.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 43.47    | -30.53      | 74.88  | 57.84       | 35.41 | 9.19   | 58.97  | ---   | Peak   |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Limit    | ReadAntenna | Cable  | Preamp      | A/Pos | T/Pos  | Remark |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Level    | Limit       | Level  | Factor      | Loss  | Factor |        |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
|        | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m   | dB          | dBuV/m | dBuV/m      | dB    | dB     | cm     |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
| 1      | 4958.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 41.68    | -32.68      | 74.88  | 56.75       | 34.43 | 7.88   | 57.56  | ---   | Peak   |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |
| 2      | 7425.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 42.98    | -31.02      | 74.88  | 57.27       | 35.41 | 9.19   | 58.97  | ---   | Peak   |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |      |       |             |       |        |       |       |        |  |      |       |       |       |        |      |        |  |  |     |        |    |        |        |    |    |    |   |         |       |        |       |       |       |      |       |     |      |   |         |       |        |       |       |       |      |       |     |      |



Emission below 1GHz  
Zigbee (LF)

| Zigbee       | 2.4GHz 2400~2483.5MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |        |       |        |       |        |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|-------|--------|-------|--------|----------|-------|--------|------|-------|-------|-------|--------|------|--------|--|--|--|-----|--------|----|--------|----|----|----|----|-----|--|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|------|--------|-------|--------|-------|-------|--------|------|-------|-------|-------|--------|------|--------|--|--|--|-----|--------|----|--------|----|----|----|----|-----|--|---|-------|-------|--------|-------|-------|-------|------|-------|----------|---|-------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|---|--------|-------|--------|-------|-------|-------|------|-------|----------|
| ANT          | Zigbee LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |        |       |        |       |        |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
|              | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical |        |        |       |        |       |        |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| QP /<br>Peak | <div><p>Date: 1</p><table><tr><th></th><th>Over</th><th>Limit</th><th>Read</th><th>Attenu</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>142.52</td><td>22.21</td><td>-21.29</td><td>43.50</td><td>37.33</td><td>18.35</td><td>1.25</td><td>34.72</td><td>--- Peak</td></tr><tr><td>2</td><td>287.85</td><td>22.31</td><td>-23.69</td><td>46.00</td><td>36.45</td><td>18.72</td><td>1.78</td><td>34.62</td><td>--- Peak</td></tr><tr><td>3</td><td>353.98</td><td>24.36</td><td>-21.64</td><td>46.00</td><td>36.69</td><td>20.31</td><td>1.95</td><td>34.59</td><td>--- Peak</td></tr><tr><td>4</td><td>689.23</td><td>25.93</td><td>-20.87</td><td>46.00</td><td>31.87</td><td>26.58</td><td>2.74</td><td>34.46</td><td>--- Peak</td></tr><tr><td>5</td><td>859.35</td><td>29.44</td><td>-15.56</td><td>46.00</td><td>31.86</td><td>28.77</td><td>3.13</td><td>34.38</td><td>--- Peak</td></tr><tr><td>6</td><td>948.59</td><td>31.88</td><td>-14.92</td><td>46.00</td><td>32.38</td><td>29.74</td><td>3.26</td><td>34.38</td><td>--- Peak</td></tr></table></div> |          | Over   | Limit  | Read  | Attenu | Cable | Preamp | A/Pos    | T/Pos | Remark | Freq | Level | Limit | Level | Factor | Loss | Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg |  | 1 | 142.52 | 22.21 | -21.29 | 43.50 | 37.33 | 18.35 | 1.25 | 34.72 | --- Peak | 2 | 287.85 | 22.31 | -23.69 | 46.00 | 36.45 | 18.72 | 1.78 | 34.62 | --- Peak | 3 | 353.98 | 24.36 | -21.64 | 46.00 | 36.69 | 20.31 | 1.95 | 34.59 | --- Peak | 4 | 689.23 | 25.93 | -20.87 | 46.00 | 31.87 | 26.58 | 2.74 | 34.46 | --- Peak | 5 | 859.35 | 29.44 | -15.56 | 46.00 | 31.86 | 28.77 | 3.13 | 34.38 | --- Peak | 6 | 948.59 | 31.88 | -14.92 | 46.00 | 32.38 | 29.74 | 3.26 | 34.38 | --- Peak | <div><p>Date: 2</p><table><tr><th></th><th>Over</th><th>Limit</th><th>Read</th><th>Attenu</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>33.88</td><td>24.98</td><td>-15.82</td><td>48.08</td><td>48.85</td><td>18.46</td><td>0.57</td><td>34.98</td><td>--- Peak</td></tr><tr><td>2</td><td>86.87</td><td>25.87</td><td>-17.83</td><td>43.58</td><td>44.85</td><td>14.78</td><td>1.84</td><td>34.88</td><td>--- Peak</td></tr><tr><td>3</td><td>141.55</td><td>22.87</td><td>-21.47</td><td>43.58</td><td>37.33</td><td>18.27</td><td>1.25</td><td>34.72</td><td>--- Peak</td></tr><tr><td>4</td><td>536.34</td><td>23.95</td><td>-22.05</td><td>46.08</td><td>32.84</td><td>23.96</td><td>2.45</td><td>34.58</td><td>--- Peak</td></tr><tr><td>5</td><td>744.89</td><td>27.11</td><td>-18.89</td><td>46.08</td><td>31.83</td><td>27.56</td><td>2.84</td><td>34.48</td><td>--- Peak</td></tr><tr><td>6</td><td>948.59</td><td>30.37</td><td>-15.63</td><td>46.08</td><td>31.87</td><td>29.74</td><td>3.26</td><td>34.38</td><td>--- Peak</td></tr></table></div> |  | Over | Limit | Read | Attenu | Cable | Preamp | A/Pos | T/Pos | Remark | Freq | Level | Limit | Level | Factor | Loss | Factor |  |  |  | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | cm | deg |  | 1 | 33.88 | 24.98 | -15.82 | 48.08 | 48.85 | 18.46 | 0.57 | 34.98 | --- Peak | 2 | 86.87 | 25.87 | -17.83 | 43.58 | 44.85 | 14.78 | 1.84 | 34.88 | --- Peak | 3 | 141.55 | 22.87 | -21.47 | 43.58 | 37.33 | 18.27 | 1.25 | 34.72 | --- Peak | 4 | 536.34 | 23.95 | -22.05 | 46.08 | 32.84 | 23.96 | 2.45 | 34.58 | --- Peak | 5 | 744.89 | 27.11 | -18.89 | 46.08 | 31.83 | 27.56 | 2.84 | 34.48 | --- Peak | 6 | 948.59 | 30.37 | -15.63 | 46.08 | 31.87 | 29.74 | 3.26 | 34.38 | --- Peak |
|              | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limit    | Read   | Attenu | Cable | Preamp | A/Pos | T/Pos  | Remark   |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| Freq         | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit    | Level  | Factor | Loss  | Factor |       |        |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| MHz          | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB       | dBuV/m | dB     | dB    | dB     | cm    | deg    |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 1            | 142.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22.21    | -21.29 | 43.50  | 37.33 | 18.35  | 1.25  | 34.72  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 2            | 287.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22.31    | -23.69 | 46.00  | 36.45 | 18.72  | 1.78  | 34.62  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 3            | 353.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24.36    | -21.64 | 46.00  | 36.69 | 20.31  | 1.95  | 34.59  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 4            | 689.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25.93    | -20.87 | 46.00  | 31.87 | 26.58  | 2.74  | 34.46  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 5            | 859.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29.44    | -15.56 | 46.00  | 31.86 | 28.77  | 3.13  | 34.38  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 6            | 948.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31.88    | -14.92 | 46.00  | 32.38 | 29.74  | 3.26  | 34.38  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
|              | Over                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limit    | Read   | Attenu | Cable | Preamp | A/Pos | T/Pos  | Remark   |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| Freq         | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit    | Level  | Factor | Loss  | Factor |       |        |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| MHz          | dBuV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dB       | dBuV/m | dB     | dB    | dB     | cm    | deg    |          |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 1            | 33.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24.98    | -15.82 | 48.08  | 48.85 | 18.46  | 0.57  | 34.98  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 2            | 86.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25.87    | -17.83 | 43.58  | 44.85 | 14.78  | 1.84  | 34.88  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 3            | 141.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22.87    | -21.47 | 43.58  | 37.33 | 18.27  | 1.25  | 34.72  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 4            | 536.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23.95    | -22.05 | 46.08  | 32.84 | 23.96  | 2.45  | 34.58  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 5            | 744.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27.11    | -18.89 | 46.08  | 31.83 | 27.56  | 2.84  | 34.48  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |
| 6            | 948.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30.37    | -15.63 | 46.08  | 31.87 | 29.74  | 3.26  | 34.38  | --- Peak |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |       |      |        |       |        |       |       |        |      |       |       |       |        |      |        |  |  |  |     |        |    |        |    |    |    |    |     |  |   |       |       |        |       |       |       |      |       |          |   |       |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |   |        |       |        |       |       |       |      |       |          |

## Appendix E. Duty Cycle Plots

| Mode   | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|--------|---------------|-------|----------|-------------|
| Zigbee | 100           | -     | -        | 10Hz        |

### Zigbee mode

