



## RF MEASUREMENT REPORT

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**FCC ID:** YIY-ASMB0911  
**Applicant:** Industrea Mining Technology Pty Ltd  
**Product:** Mini Dual RF UHF Module SiLabs  
**Model No.:** ASMB0911  
**Brand Name:** Digital Mining Technology  
**FCC Classification:** Digital Transmission System (DTS)  
**FCC Rule Part(s):** Part 15 Subpart C (Section 15.247)  
**Result:** Complies  
**Received Date:** 2024-11-01  
**Test Date:** 2024-11-08 ~ 2024-11-12

**Reviewed By:**

Denise Zhou

**Approved By:**

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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### Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2411RSU001-U1 | V01     | Initial Report | 2024-12-23 | Valid |
|               |         |                |            |       |

Note: The report is based on the original report (Report No.: 2401RSU009-U1) to revise the crystal oscillator. Output Power and Radiated Spurious Emission items were performed.

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## 1. General Information

### 1.1. Applicant

Industreea Mining Technology Pty Ltd  
T/A Digital Mining Technology  
3 Co-Wyn Close Fountaindale NSW 2258 Australia

## 1.2. Manufacturer

Industreea Mining Technology Pty Ltd  
T/A Digital Mining Technology  
3 Co-Wyn Close Fountaindale NSW 2258 Australia

### 1.3. Testing Facility

|                                     |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b>                                                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China                                                                                                                                                                              |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China                                                                                                                                                                        |
|                                     | <b>Laboratory Location (Suzhou - Wujiang)</b><br>Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China                                                                                                                                                                            |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.01<br>FCC: CN1166<br>VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020<br><input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104 |
|                                     | CNAS: L10551<br>ISED: CN0001                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b>                                                                                                                                                                                                                                                                       |
|                                     | <b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China                                                                                                                                                                         |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.02<br>FCC: CN1284                                                                                                                                                                                                                                                                                     |
| CNAS: L10551<br>ISED: CN0105        |                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b>                                                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)                                                                                                                                                                                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                 |
|                                     | TAF: 3261<br>FCC: 291082, TW3261                                                                                                                                                                                                                                                                                 |
| ISED: TW3261                        |                                                                                                                                                                                                                                                                                                                  |

#### 1.4. Product Information

|                                                                                                                                                     |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Product Name                                                                                                                                        | Mini Dual RF UHF Module SiLabs |
| Model No.                                                                                                                                           | ASMB0911                       |
| EUT Identification No.                                                                                                                              | 20240105Sample#01              |
| SRD Specification                                                                                                                                   | 902 ~ 928MHz                   |
| Antenna Information                                                                                                                                 | Refer to Section 1.7           |
| Module Voltage                                                                                                                                      | 3.3Vdc                         |
| Test Fixture Voltage                                                                                                                                | 6 ~ 18Vdc, nominal 12Vdc       |
| Operating Temperature                                                                                                                               | -40 ~ 85°C                     |
| Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. |                                |

#### 1.5. Radio Specification under Test

|                    |              |
|--------------------|--------------|
| Frequency Range    | 902 ~ 928MHz |
| Channel Number     | 25           |
| Type of modulation | 4GFSK        |

#### 1.6. Working Frequencies

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 00      | 920MHz    | 01      | 921MHz    | 02      | 922MHz    |
| 03      | 923MHz    | 04      | 924MHz    | 05      | 925MHz    |
| 06      | 926MHz    | 07      | 927MHz    | 08      | 903MHz    |
| 09      | 904MHz    | 10      | 905MHz    | 11      | 906MHz    |
| 12      | 907MHz    | 13      | 908MHz    | 14      | 909MHz    |
| 15      | 910MHz    | 16      | 911MHz    | 17      | 912MHz    |
| 18      | 913MHz    | 19      | 914MHz    | 20      | 915MHz    |
| 21      | 916MHz    | 22      | 917MHz    | 23      | 918MHz    |
| 24      | 919MHz    | --      | --        | --      | --        |

**1.7. Antenna Details**

| Antenna Part No.   | Antenna Type     | Antenna Gain |
|--------------------|------------------|--------------|
| EA2-0287-N01SP-050 | Omni-directional | 8.0dBi       |
| PROD1196           | Omni-directional | 2.9dBi       |
| MISC0607           | Omni-directional | -2.4dBi      |
| MISC1626           | Monopole         | 2.0dBi       |

Note 1: All antenna information is provided by the manufacturer.

Note 2: For conducted test items, we chose the antenna “EA2-0287-N01SP-050” which has highest antenna gain to test.

Note 3: For radiated test items, the antenna “EA2-0287-N01SP-050”, “PROD1196” and “MISC0607” have the same antenna type, so we chose the antenna “EA2-0287-N01SP-050” which has higher antenna gain and “MISC1626” which has different antenna type to test.

## 2. Test Configuration

### 2.1. Test Mode

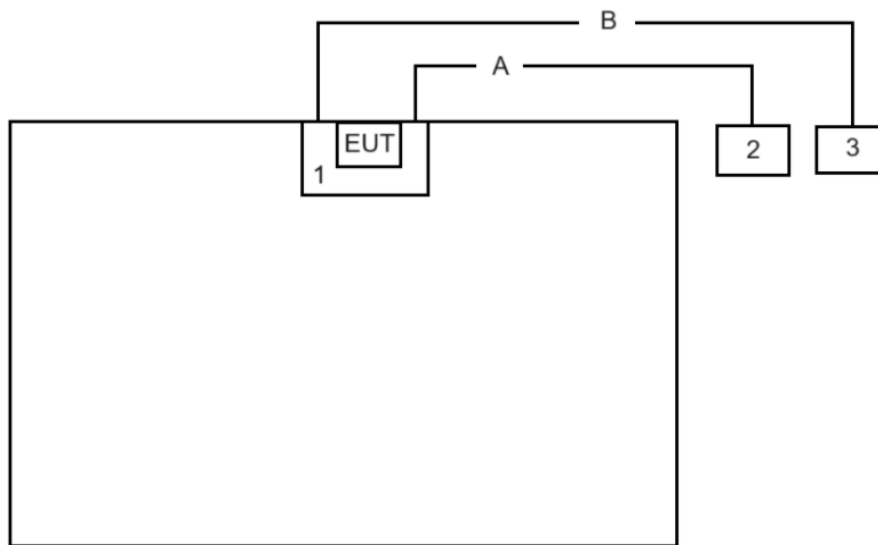
Mode 1: Transmit by Module A and Receive by Module B

Mode 2: Transmit by Module B and Receive by Module A

### 2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing.

Connection Diagram



| Cable Type |                 | Cable Description | Length        |
|------------|-----------------|-------------------|---------------|
| A          | USB Cable       | Shielded          | >10.0m        |
| B          | DC Cable        | Non-Shielded      | >10.0m        |
| Product    |                 | Manufacturer      | Model No.     |
| 1          | Test Fixture    | Wabtec            | ASMB0885      |
| 2          | Notebook        | Lenovo            | ThinkPad E495 |
| 3          | DC Power Supply | MESTEK            | DP3010B       |



### 2.3. Test Software

The test utility software used during testing was “CASFW\_Manager.exe” and the version was 200.0.4.

### 2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

### 2.5. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. Antenna Requirements

#### **Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. 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 provisions of this section.”

- The antenna that uses a **unique coupling**.

#### **Conclusion:**

The unit complies with the requirement of §15.203.

#### 4. Measuring Instrument

| Instrument          | Manufacturer | Model No.      | Asset No.   | Cali. Interval | Cali. Due Date | Test Site |
|---------------------|--------------|----------------|-------------|----------------|----------------|-----------|
| TRILOG Antenna      | Schwarzbeck  | VULB 9162      | MRTSUE06022 | 1 year         | 2025-04-17     | WZ-AC2    |
| EMI Test Receiver   | Agilent      | N9038A         | MRTSUE06125 | 1 year         | 2025-05-08     | WZ-AC2    |
| Horn Antenna        | Schwarzbeck  | BBHA 9120D     | MRTSUE06171 | 1 year         | 2025-09-23     | WZ-AC2    |
| Preamplifier        | Schwarzbeck  | BBV 9718       | MRTSUE06176 | 1 year         | 2025-05-06     | WZ-AC2    |
| Anechoic Chamber    | RIKEN        | WZ-AC2         | MRTSUE06213 | 1 year         | 2025-04-18     | WZ-AC2    |
| Thermohygrometer    | testo        | 608-H1         | MRTSUE11263 | 1 year         | 2025-10-16     | WZ-AC2    |
| Active Loop Antenna | Schwarzbeck  | FMZB 1519-60 D | MRTSUE07076 | 1 year         | 2024-12-04     | WZ-AC2    |
| Attenuator          | MVE          | MVE2213        | MRTSUE11080 | 1 year         | 2025-06-05     | WZ-SR5    |
| Thermohygrometer    | testo        | 608-H1         | MRTSUE06402 | 1 year         | 2025-05-12     | WZ-SR5    |
| Shielding Room      | HUAMING      | WZ-SR5         | MRTSUE06442 | N/A            | N/A            | WZ-SR5    |
| Signal Analyzer     | Keysight     | N9010B         | MRTSUE06457 | 1 year         | 2025-05-08     | WZ-SR5    |
| USB Power Sensor    | Keysight     | U2021XA        | MRTSUE06446 | 1 year         | 2025-05-08     | WZ-SR5    |

| Software             | Version | Function               |
|----------------------|---------|------------------------|
| e3                   | 230711  | RE & CE                |
| Controller_MF 7802   | 1.02    | RE Antenna & Turntable |
| BenchVue Power Meter | 2018.1  | Power                  |

## 5. Decision Rules and Measurement Uncertainty

### 5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.  
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

| Radiated Emission Measurement                                           |                      |
|-------------------------------------------------------------------------|----------------------|
| The maximum measurement uncertainty is evaluated as:                    |                      |
| Coaxial:                                                                | 9kHz~30MHz: 2.35dB   |
| Coplanar:                                                               | 9kHz~30MHz: 2.37dB   |
| Horizontal:                                                             | 30MHz~200MHz: 3.46dB |
|                                                                         | 200MHz~1GHz: 3.78dB  |
|                                                                         | 1GHz~10GHz: 4.97dB   |
| Vertical:                                                               | 30MHz~200MHz: 4.07dB |
|                                                                         | 200MHz~1GHz: 5.28dB  |
|                                                                         | 1GHz~10GHz: 4.78dB   |
| Output Power                                                            |                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ): |                      |
| 1.3dB                                                                   |                      |

## 6. Test Result

### 6.1. Summary

| FCC Section(s)   | Test Description                                                | Test Condition | Verdict |
|------------------|-----------------------------------------------------------------|----------------|---------|
| 15.247(b)(3)     | Output Power                                                    | Conducted      | Pass    |
| 15.205<br>15.209 | General Field Strength (Restricted Bands and Radiated Emission) | Radiated       | Pass    |

#### Notes:

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer.  
The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. For radiated emission test, every axis (X, Y, Z) was also verified.

## 6.2. Output Power Measurement

### 6.2.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

### 6.2.3. Test Setting

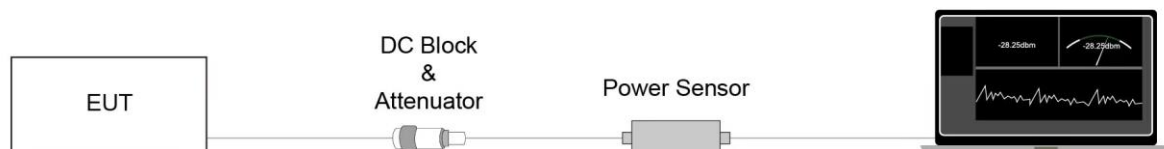
#### **Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)**

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

#### **Average Power Measurement**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 6.2.4. Test Setup



### 6.2.5. Test Result

Refer to Appendix A.1.

### 6.3. Radiated Spurious Emission Measurement

#### 6.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|----------------------------------------|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |

#### 6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

#### 6.3.3. Test Setting

**Table 1 - RBW as a function of frequency**

| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| > 1000MHz     | 1MHz          |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

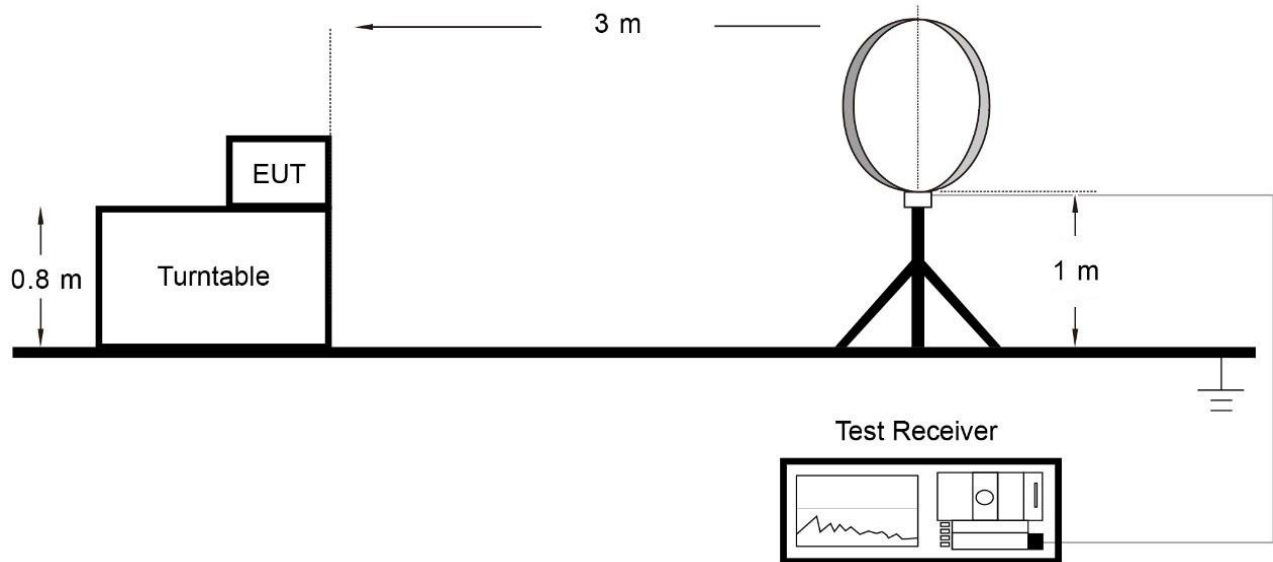
**Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set  $\text{VBW} \geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

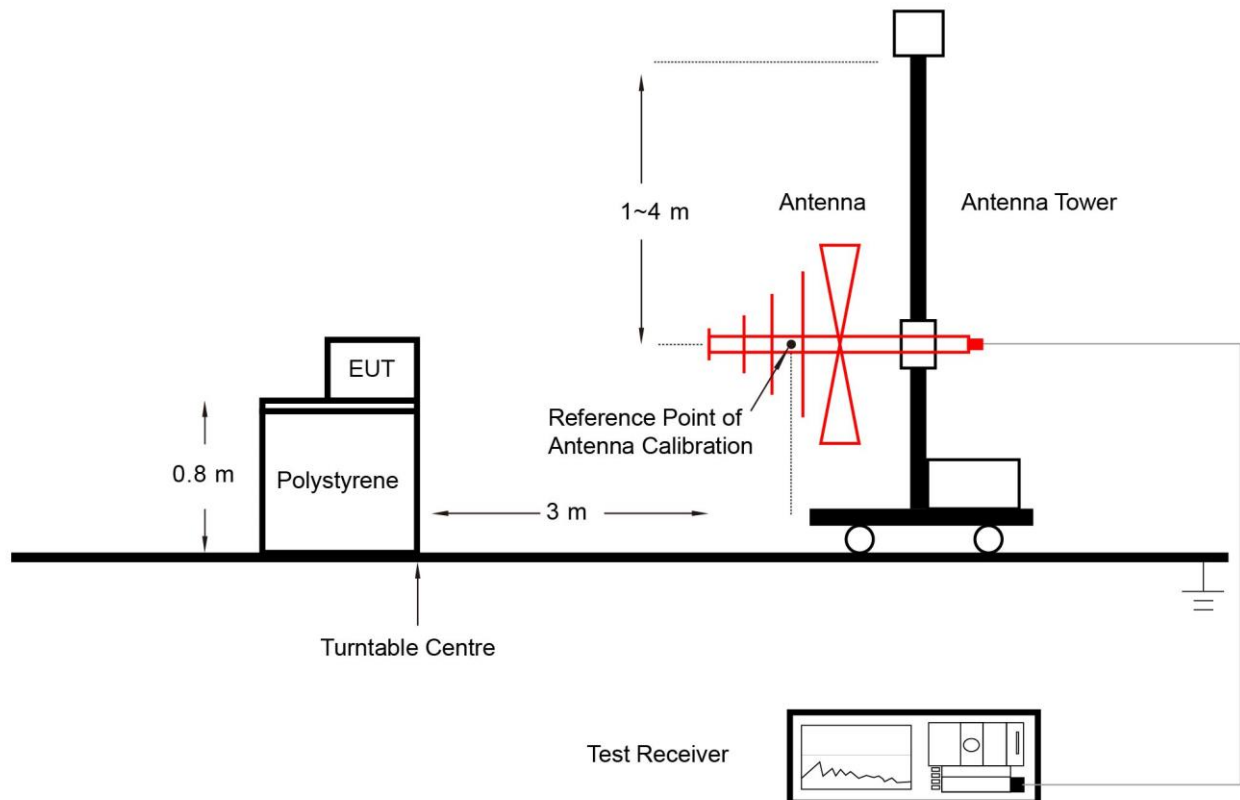


### 6.3.4. Test Setup

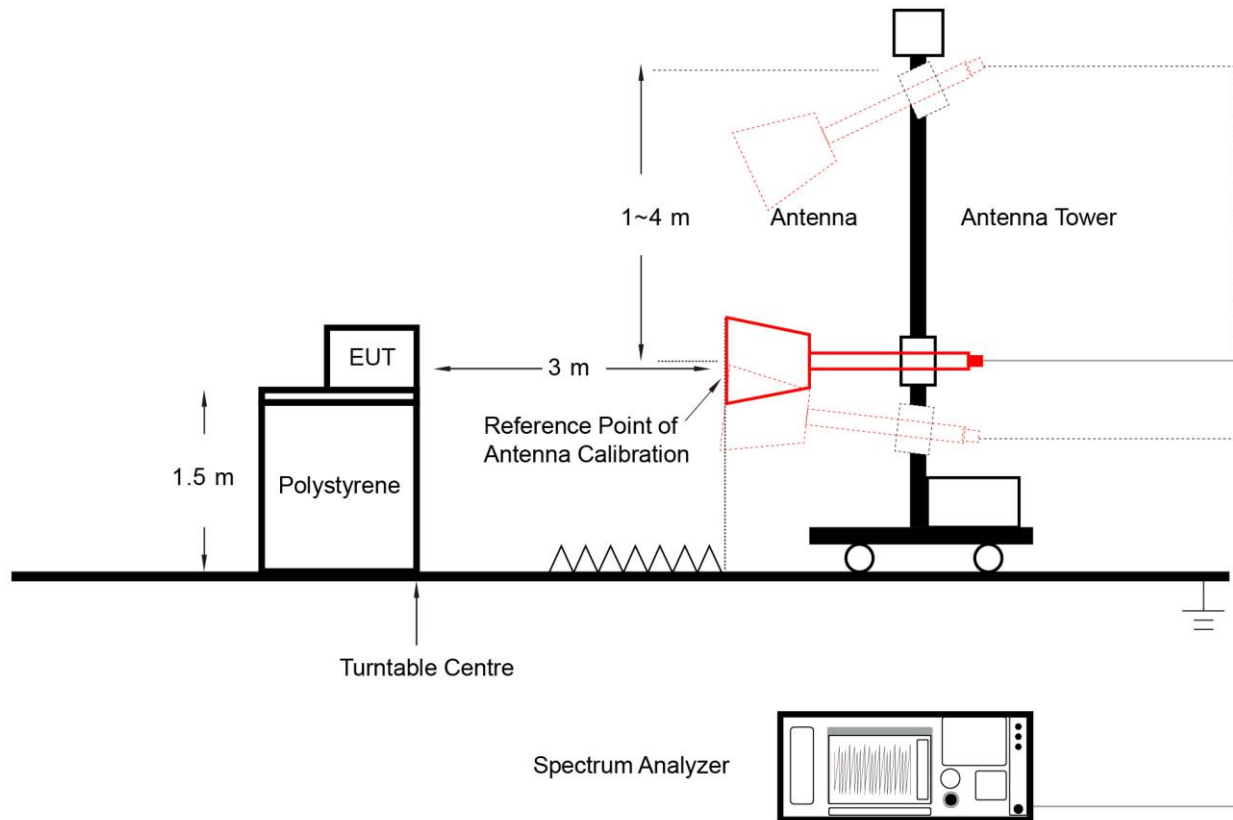
Below 30MHz Test Setup:



Below 1GHz Test Setup:



### Above 1GHz Test Setup:



### 6.3.5. Test Result

Refer to Appendix A.2.

## Appendix A - Test Result

### A.1 Output Power Test Result

|           |            |               |           |
|-----------|------------|---------------|-----------|
| Test Site | WZ-SR5     | Test Engineer | Luis Yang |
| Test Date | 2024-11-08 |               |           |

#### Test Result of Peak Output Power

| Test Mode | Channel No. | Frequency (MHz) | Peak Power (dBm) | Peak Power Limit (dBm) | Result |
|-----------|-------------|-----------------|------------------|------------------------|--------|
| 1         | 08          | 903             | 20.28            | $\leq 28.00$           | Pass   |
|           | 20          | 915             | 19.68            | $\leq 28.00$           | Pass   |
|           | 07          | 927             | 19.70            | $\leq 28.00$           | Pass   |
| 2         | 08          | 903             | 20.05            | $\leq 28.00$           | Pass   |
|           | 20          | 915             | 19.87            | $\leq 28.00$           | Pass   |
|           | 07          | 927             | 19.50            | $\leq 28.00$           | Pass   |

Note: Peak Power Limit (dBm) = 30dBm - (Antenna Gain (dBi) - 6dB) = 30dBm - (8dBi - 6dB) = 28dBm

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

| Test Mode | Channel No. | Frequency (MHz) | Average Power (dBm) | AV Power Limit (dBm) | Result |
|-----------|-------------|-----------------|---------------------|----------------------|--------|
| 1         | 08          | 903             | 20.26               | $\leq 28.00$         | Pass   |
|           | 20          | 915             | 19.61               | $\leq 28.00$         | Pass   |
|           | 07          | 927             | 19.64               | $\leq 28.00$         | Pass   |
| 2         | 08          | 903             | 19.99               | $\leq 28.00$         | Pass   |
|           | 20          | 915             | 19.84               | $\leq 28.00$         | Pass   |
|           | 07          | 927             | 19.47               | $\leq 28.00$         | Pass   |

Note: AV Power Limit (dBm) = 30dBm - (Antenna Gain (dBi) - 6dB) = 30 dBm - (8dBi - 6dB) = 28dBm

## A.2 Radiated Spurious Emission Test Result

### Antenna EA2-0287-N01SP-050

|           |                                                                                                                                                                    |               |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                             | Test Engineer | Ajin Fan |
| Test Date | 2024-11-11                                                                                                                                                         | Test Mode     | Mode 1   |
| Remark:   | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line, there is not show in the report. |               |          |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 08           | 2708.0          | 55.9                 | -2.6          | 53.3                   | 54.0           | -0.7        | Average  | Horizontal   |
|              | 2708.0          | 62.8                 | -2.6          | 60.2                   | 74.0           | -13.8       | Peak     | Horizontal   |
|              | 3610.4          | 41.3                 | -1.2          | 40.1                   | 74.0           | -33.9       | Peak     | Horizontal   |
|              | 5418.4          | 40.9                 | 2.9           | 43.8                   | 74.0           | -30.2       | Peak     | Horizontal   |
|              | 2708.8          | 51.0                 | -2.6          | 48.4                   | 74.0           | -25.6       | Peak     | Vertical     |
|              | 4516.8          | 40.8                 | 1.9           | 42.7                   | 74.0           | -31.3       | Peak     | Vertical     |
|              | 5417.6          | 36.8                 | 2.9           | 39.7                   | 74.0           | -34.3       | Peak     | Vertical     |
| 20           | 2745.6          | 53.8                 | -2.8          | 51.0                   | 54.0           | -3.0        | Average  | Horizontal   |
|              | 2745.6          | 60.7                 | -2.8          | 57.9                   | 74.0           | -16.1       | Peak     | Horizontal   |
|              | 3660.8          | 41.9                 | -1.0          | 40.9                   | 74.0           | -33.1       | Peak     | Horizontal   |
|              | 4574.4          | 40.9                 | 1.7           | 42.6                   | 74.0           | -31.4       | Peak     | Horizontal   |
|              | 2744.0          | 49.7                 | -2.8          | 46.9                   | 74.0           | -27.1       | Peak     | Vertical     |
|              | 3938.4          | 38.4                 | -0.7          | 37.7                   | 74.0           | -36.3       | Peak     | Vertical     |
|              | 4576.0          | 41.3                 | 1.7           | 43.0                   | 74.0           | -31.0       | Peak     | Vertical     |
| 07           | 2780.8          | 52.8                 | -2.7          | 50.1                   | 54.0           | -3.9        | Average  | Horizontal   |
|              | 2780.8          | 52.0                 | -2.7          | 49.3                   | 74.0           | -24.7       | Peak     | Horizontal   |
|              | 3706.4          | 43.0                 | -0.8          | 42.2                   | 74.0           | -31.8       | Peak     | Horizontal   |
|              | 4634.4          | 39.2                 | 2.2           | 41.4                   | 74.0           | -32.6       | Peak     | Horizontal   |
|              | 2781.6          | 49.6                 | -2.7          | 46.9                   | 74.0           | -27.1       | Peak     | Vertical     |
|              | 3836.8          | 37.8                 | -0.6          | 37.2                   | 74.0           | -36.8       | Peak     | Vertical     |
|              | 4634.4          | 42.9                 | 2.2           | 45.1                   | 74.0           | -28.9       | Peak     | Vertical     |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Note 2: For emission below 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

For emission above 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |                                                                                                                                                                    |               |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                             | Test Engineer | Ajin Fan |
| Test Date | 2024-11-11                                                                                                                                                         | Test Mode     | Mode 2   |
| Remark:   | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line, there is not show in the report. |               |          |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 08           | 2708.0          | 52.7                 | -2.6          | 50.1                   | 54.0           | -3.9        | Average  | Horizontal   |
|              | 2708.0          | 60.2                 | -2.6          | 57.6                   | 74.0           | -16.4       | Peak     | Horizontal   |
|              | 4514.4          | 40.2                 | 1.9           | 42.1                   | 74.0           | -31.9       | Peak     | Horizontal   |
|              | 5416.8          | 41.6                 | 2.9           | 44.5                   | 74.0           | -29.5       | Peak     | Horizontal   |
|              | 2707.2          | 48.3                 | -2.6          | 45.7                   | 74.0           | -28.3       | Peak     | Vertical     |
|              | 4516.8          | 38.5                 | 1.9           | 40.4                   | 74.0           | -33.6       | Peak     | Vertical     |
|              | 5416.8          | 44.0                 | 2.9           | 46.9                   | 74.0           | -27.1       | Peak     | Vertical     |
| 20           | 2745.6          | 52.0                 | -2.8          | 49.2                   | 54.0           | -4.8        | Average  | Horizontal   |
|              | 2745.6          | 58.6                 | -2.8          | 55.8                   | 74.0           | -18.2       | Peak     | Horizontal   |
|              | 3658.4          | 39.7                 | -1.0          | 38.7                   | 74.0           | -35.3       | Peak     | Horizontal   |
|              | 4576.0          | 43.8                 | 1.7           | 45.5                   | 74.0           | -28.5       | Peak     | Horizontal   |
|              | 2744.8          | 45.8                 | -2.8          | 43.0                   | 74.0           | -31.0       | Peak     | Vertical     |
|              | 4079.2          | 37.2                 | -0.2          | 37.0                   | 74.0           | -37.0       | Peak     | Vertical     |
|              | 4574.4          | 39.9                 | 1.7           | 41.6                   | 74.0           | -32.4       | Peak     | Vertical     |
| 07           | 2781.6          | 52.0                 | -2.7          | 49.3                   | 54.0           | -4.7        | Average  | Horizontal   |
|              | 2781.6          | 57.8                 | -2.7          | 55.1                   | 74.0           | -18.9       | Peak     | Horizontal   |
|              | 3708.8          | 46.1                 | -0.8          | 45.3                   | 74.0           | -28.7       | Peak     | Horizontal   |
|              | 4635.2          | 40.7                 | 2.2           | 42.9                   | 74.0           | -31.1       | Peak     | Horizontal   |
|              | 2780.8          | 45.2                 | -2.7          | 42.5                   | 74.0           | -31.5       | Peak     | Vertical     |
|              | 3708.0          | 39.0                 | -0.8          | 38.2                   | 74.0           | -35.8       | Peak     | Vertical     |
|              | 4635.2          | 41.1                 | 2.2           | 43.3                   | 74.0           | -30.7       | Peak     | Vertical     |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Note 2: For emission below 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

For emission above 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

**Antenna MISC1626**

|           |                                                                                                                                                                    |               |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                             | Test Engineer | Ajin Fan |
| Test Date | 2024-11-11                                                                                                                                                         | Test Mode     | Mode 1   |
| Remark:   | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line, there is not show in the report. |               |          |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 08           | 2709.1          | 46.8                 | -2.6          | 44.2                   | 74.0           | -29.8       | Peak     | Horizontal   |
|              | 4515.4          | 42.0                 | 1.9           | 43.9                   | 74.0           | -30.1       | Peak     | Horizontal   |
|              | 5417.2          | 40.6                 | 2.9           | 43.5                   | 74.0           | -30.5       | Peak     | Horizontal   |
|              | 2710.0          | 42.4                 | -2.6          | 39.8                   | 74.0           | -34.2       | Peak     | Vertical     |
|              | 4517.2          | 42.3                 | 1.9           | 44.2                   | 74.0           | -29.8       | Peak     | Vertical     |
|              | 5419.9          | 39.2                 | 2.9           | 42.1                   | 74.0           | -31.9       | Peak     | Vertical     |
| 20           | 2746.0          | 45.0                 | -2.8          | 42.2                   | 74.0           | -31.8       | Peak     | Horizontal   |
|              | 3658.6          | 45.6                 | -1.0          | 44.6                   | 74.0           | -29.4       | Peak     | Horizontal   |
|              | 4573.9          | 42.8                 | 1.7           | 44.5                   | 74.0           | -29.5       | Peak     | Horizontal   |
|              | 2744.2          | 42.3                 | -2.8          | 39.5                   | 74.0           | -34.5       | Peak     | Vertical     |
|              | 3658.6          | 40.9                 | -1.0          | 39.9                   | 74.0           | -34.1       | Peak     | Vertical     |
|              | 4575.7          | 41.7                 | 1.7           | 43.4                   | 74.0           | -30.6       | Peak     | Vertical     |
| 07           | 2782.0          | 44.9                 | -2.7          | 42.2                   | 74.0           | -31.8       | Peak     | Horizontal   |
|              | 3706.3          | 42.5                 | -0.8          | 41.7                   | 74.0           | -32.3       | Peak     | Horizontal   |
|              | 4634.2          | 42.3                 | 2.2           | 44.5                   | 74.0           | -29.5       | Peak     | Horizontal   |
|              | 2269.0          | 38.8                 | -2.0          | 36.8                   | 74.0           | -37.2       | Peak     | Vertical     |
|              | 2780.2          | 41.1                 | -2.7          | 38.4                   | 74.0           | -35.6       | Peak     | Vertical     |
|              | 4634.2          | 41.2                 | 2.2           | 43.4                   | 74.0           | -30.6       | Peak     | Vertical     |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Note 2: For emission below 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

For emission above 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |                                                                                                                                                                    |               |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Test Site | WZ-AC2                                                                                                                                                             | Test Engineer | Ajin Fan |
| Test Date | 2024-11-11                                                                                                                                                         | Test Mode     | Mode 2   |
| Remark:   | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line, there is not show in the report. |               |          |

| Test Channel | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|--------------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| 08           | 2710.0          | 48.9                 | -2.6          | 46.3                   | 74.0           | -27.7       | Peak     | Horizontal   |
|              | 3610.9          | 45.2                 | -1.2          | 44.0                   | 74.0           | -30.0       | Peak     | Horizontal   |
|              | 5416.3          | 43.9                 | 2.9           | 46.8                   | 74.0           | -27.2       | Peak     | Horizontal   |
|              | 2709.1          | 43.5                 | -2.6          | 40.9                   | 74.0           | -33.1       | Peak     | Vertical     |
|              | 3610.0          | 43.7                 | -1.2          | 42.5                   | 74.0           | -31.5       | Peak     | Vertical     |
|              | 5419.9          | 45.6                 | 2.9           | 48.5                   | 74.0           | -25.5       | Peak     | Vertical     |
| 20           | 2746.0          | 49.4                 | -2.8          | 46.6                   | 74.0           | -27.4       | Peak     | Horizontal   |
|              | 3661.3          | 42.0                 | -1.0          | 41.0                   | 74.0           | -33.0       | Peak     | Horizontal   |
|              | 4573.0          | 41.7                 | 1.7           | 43.4                   | 74.0           | -30.6       | Peak     | Horizontal   |
|              | 2744.2          | 46.0                 | -2.8          | 43.2                   | 74.0           | -30.8       | Peak     | Vertical     |
|              | 4575.7          | 38.5                 | 1.7           | 40.2                   | 74.0           | -33.8       | Peak     | Vertical     |
|              | 4988.8          | 37.3                 | 3.0           | 40.3                   | 74.0           | -33.7       | Peak     | Vertical     |
| 07           | 2781.1          | 48.5                 | -2.7          | 45.8                   | 74.0           | -28.2       | Peak     | Horizontal   |
|              | 3709.0          | 46.4                 | -0.8          | 45.6                   | 74.0           | -28.4       | Peak     | Horizontal   |
|              | 4635.1          | 42.8                 | 2.2           | 45.0                   | 74.0           | -29.0       | Peak     | Horizontal   |
|              | 2782.0          | 46.5                 | -2.7          | 43.8                   | 74.0           | -30.2       | Peak     | Vertical     |
|              | 3708.1          | 40.4                 | -0.8          | 39.6                   | 74.0           | -34.4       | Peak     | Vertical     |
|              | 4635.1          | 44.2                 | 2.2           | 46.4                   | 74.0           | -27.6       | Peak     | Vertical     |

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Note 2: For emission below 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

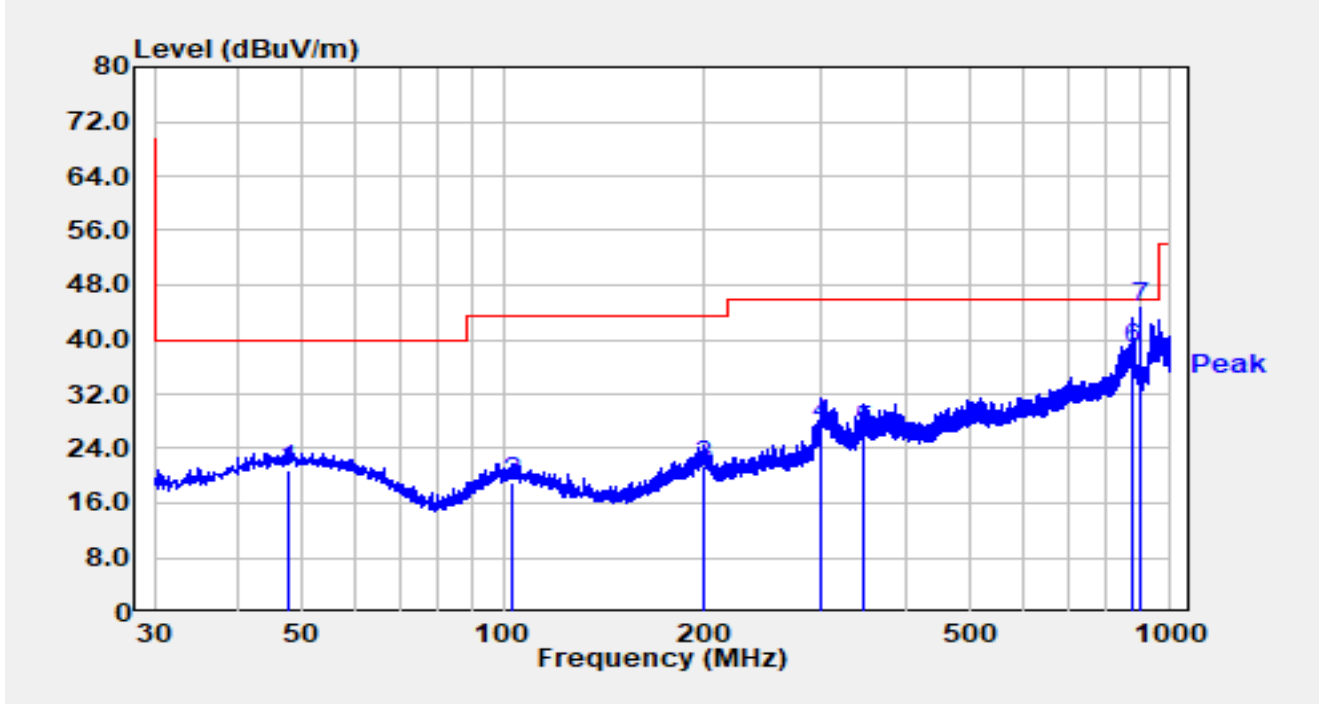
For emission above 1GHz:

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

## The Result of Radiated Emission below 1GHz

### Antenna EA2-0287-N01SP-050

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-11    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Horizontal    |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module A at 903MHz and Receive by Module B at 903MHz |                |               |



| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 47.460          | 0.50           | 20.43      | 20.93                | -19.07      | 40.00          | QP       |
| 2  |      | 103.041         | 0.28           | 18.59      | 18.88                | -24.62      | 43.50          | QP       |
| 3  |      | 200.429         | 2.55           | 18.89      | 21.44                | -22.06      | 43.50          | QP       |
| 4  |      | 300.048         | 6.52           | 20.94      | 27.46                | -18.54      | 46.00          | QP       |
| 5  |      | 346.123         | 3.81           | 22.76      | 26.57                | -19.43      | 46.00          | QP       |
| 6  | *    | 873.221         | 7.32           | 31.19      | 38.51                | -7.49       | 46.00          | QP       |
| 7  | *    | 902.709         | 13.05          | 31.49      | 44.54                | N/A         | N/A            | Peak     |

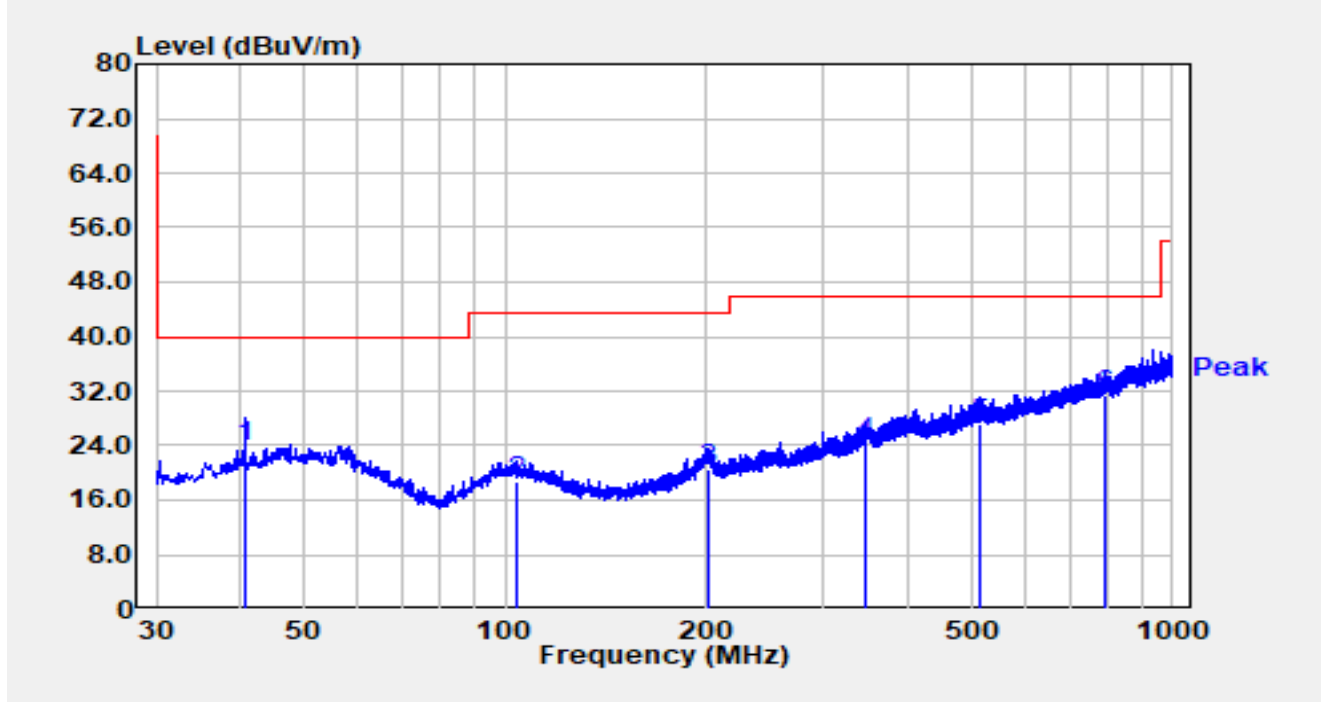
#### Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Point (7) is the fundamental frequency which is not considered in spurious emission domain.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not



presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-11    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Vertical      |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module A at 903MHz and Receive by Module B at 903MHz |                |               |

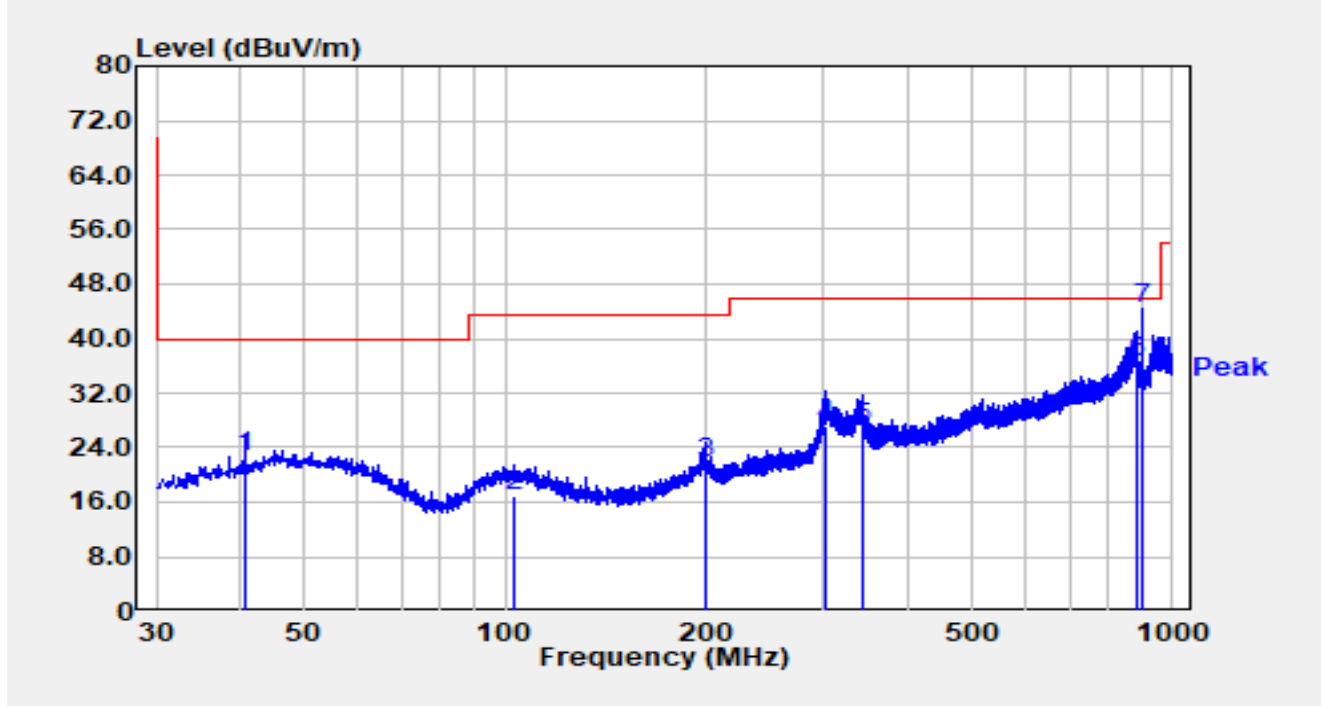


| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 40.670          | 4.52           | 19.41      | 23.93                | -16.07      | 40.00          | QP       |
| 2  |      | 104.011         | 0.19           | 18.58      | 18.77                | -24.73      | 43.50          | QP       |
| 3  |      | 200.720         | 1.74           | 18.88      | 20.62                | -22.88      | 43.50          | QP       |
| 4  |      | 345.735         | 1.71           | 22.74      | 24.45                | -21.55      | 46.00          | QP       |
| 5  |      | 516.261         | 1.88           | 25.27      | 27.15                | -18.85      | 46.00          | QP       |
| 6  | *    | 795.330         | 1.23           | 30.28      | 31.51                | -14.49      | 46.00          | QP       |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-11    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Horizontal    |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module B at 903MHz and Receive by Module A at 903MHz |                |               |

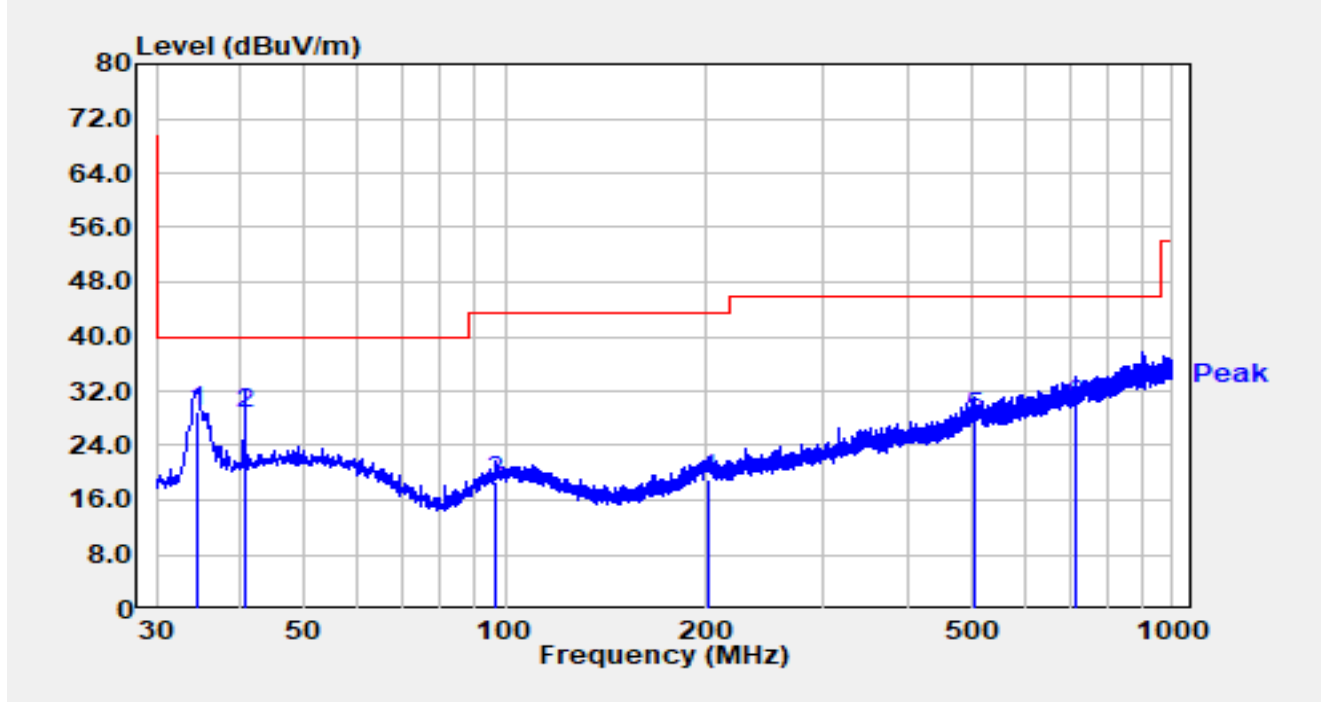


| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 40.670          | 3.22           | 19.41      | 22.63                | -17.37      | 40.00          | QP       |
| 2  |      | 103.332         | -1.81          | 18.59      | 16.78                | -26.72      | 43.50          | QP       |
| 3  |      | 199.071         | 2.72           | 18.92      | 21.64                | -21.86      | 43.50          | QP       |
| 4  |      | 302.376         | 6.30           | 20.97      | 27.27                | -18.73      | 46.00          | QP       |
| 5  |      | 341.952         | 4.24           | 22.50      | 26.74                | -19.26      | 46.00          | QP       |
| 6  | *    | 882.727         | 5.36           | 31.20      | 36.56                | -9.44       | 46.00          | QP       |
| 7  | *    | 902.709         | 12.74          | 31.49      | 44.23                | N/A         | N/A            | Peak     |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. Point (7) is the fundamental frequency which is not considered in spurious emission domain.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-11    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Vertical      |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module B at 903MHz and Receive by Module A at 903MHz |                |               |



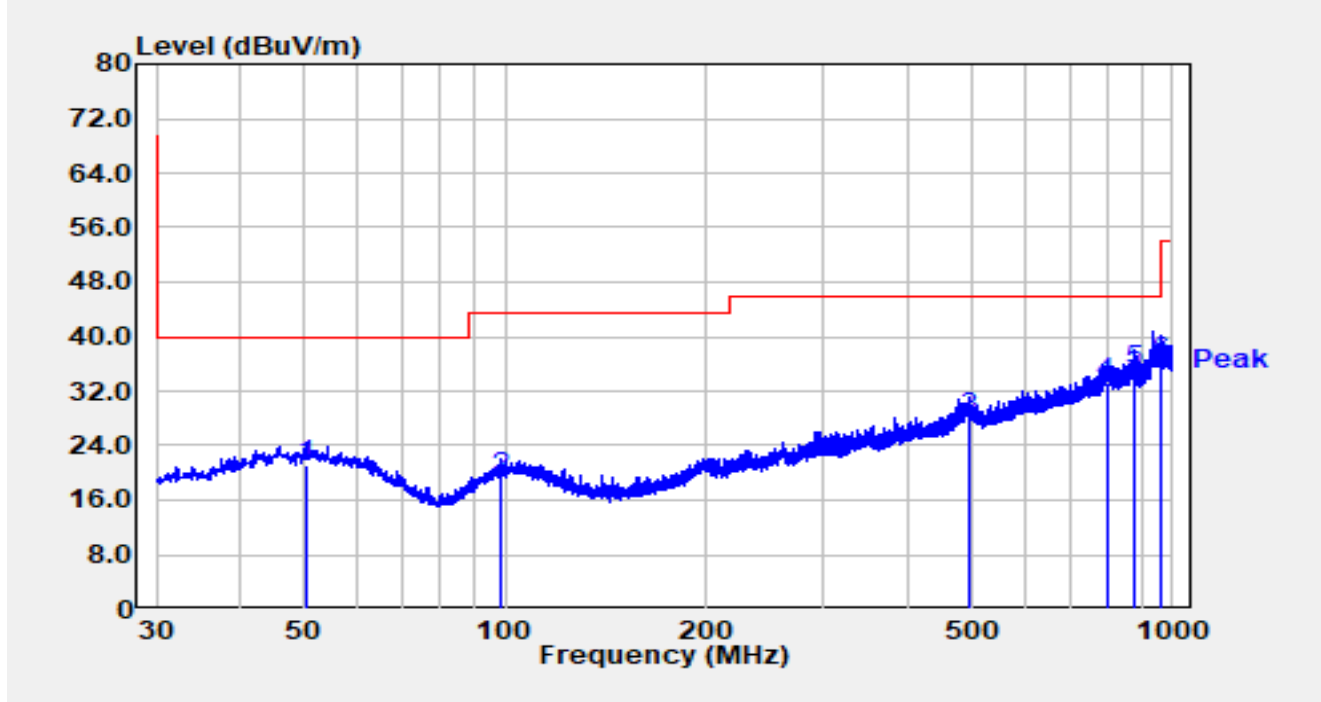
| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  | *    | 34.656          | 11.35          | 17.50      | 28.85                | -11.15      | 40.00          | QP       |
| 2  |      | 40.670          | 9.25           | 19.41      | 28.66                | -11.34      | 40.00          | QP       |
| 3  |      | 96.930          | 0.58           | 18.20      | 18.78                | -24.72      | 43.50          | QP       |
| 4  |      | 202.175         | 0.37           | 18.77      | 19.14                | -24.36      | 43.50          | QP       |
| 5  |      | 507.046         | 2.77           | 25.40      | 28.17                | -17.83      | 46.00          | QP       |
| 6  |      | 715.887         | 1.29           | 28.74      | 30.03                | -15.97      | 46.00          | QP       |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

### Antenna MISC1626

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-12    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Horizontal    |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module A at 903MHz and Receive by Module B at 903MHz |                |               |

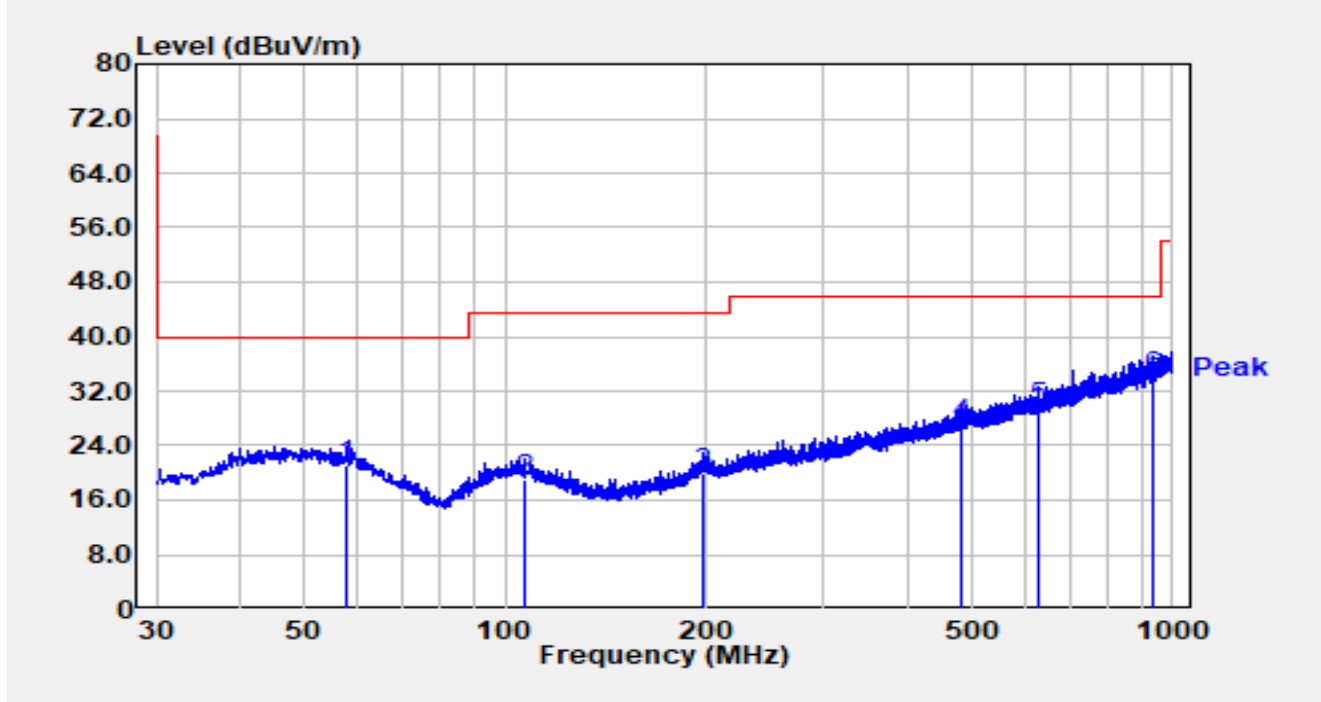


| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 50.176          | 0.64           | 20.48      | 21.12                | -18.88      | 40.00          | QP       |
| 2  |      | 98.385          | 0.77           | 18.41      | 19.18                | -24.32      | 43.50          | QP       |
| 3  |      | 495.600         | 2.53           | 25.44      | 27.97                | -18.03      | 46.00          | QP       |
| 4  |      | 795.912         | 2.78           | 30.29      | 33.07                | -12.93      | 46.00          | QP       |
| 5  | *    | 878.459         | 3.87           | 31.18      | 35.05                | -10.95      | 46.00          | QP       |
| 6  |      | 963.140         | 4.58           | 31.59      | 36.17                | -17.83      | 54.00          | QP       |

#### Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-12    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Vertical      |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module A at 903MHz and Receive by Module B at 903MHz |                |               |

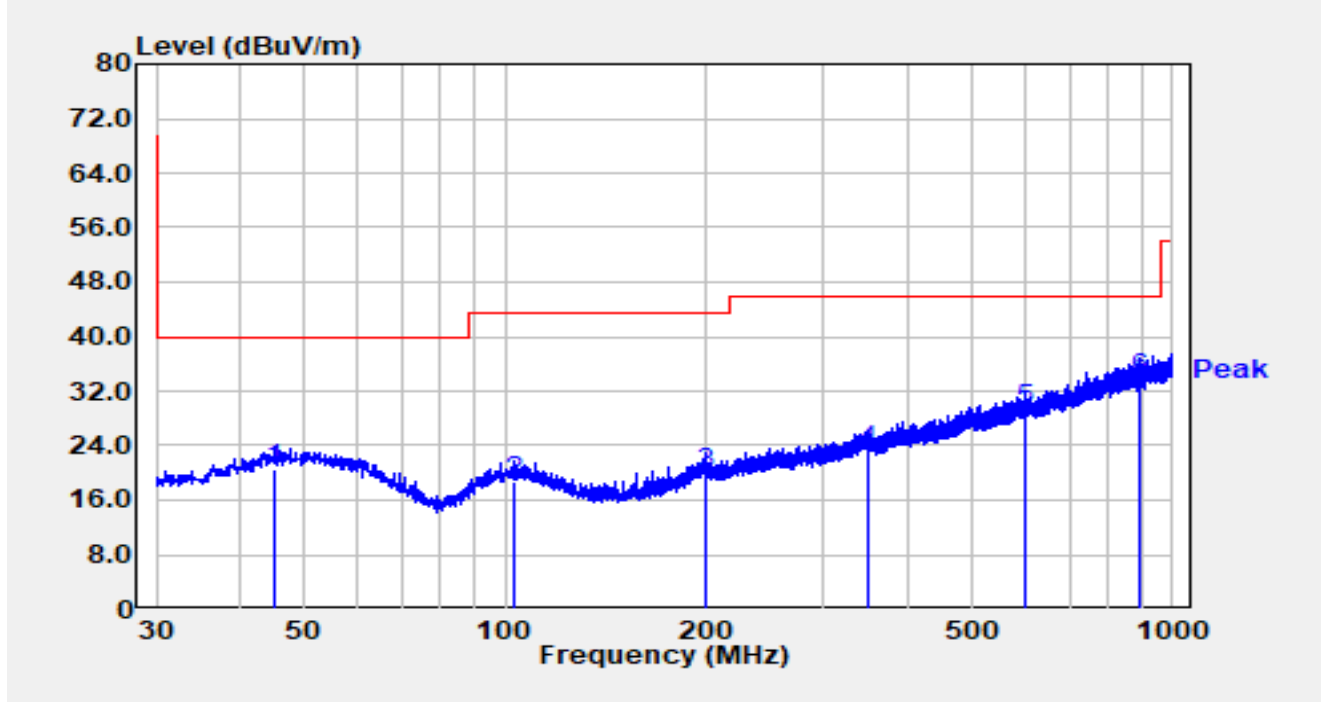


| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 57.839          | 1.22           | 19.77      | 20.99                | -19.01      | 40.00          | QP       |
| 2  |      | 106.630         | 0.52           | 18.44      | 18.96                | -24.54      | 43.50          | QP       |
| 3  |      | 198.198         | 1.15           | 18.89      | 20.04                | -23.46      | 43.50          | QP       |
| 4  |      | 482.990         | 2.05           | 25.01      | 27.06                | -18.94      | 46.00          | QP       |
| 5  |      | 628.005         | 2.02           | 27.45      | 29.47                | -16.53      | 46.00          | QP       |
| 6  | *    | 932.682         | 2.67           | 31.51      | 34.18                | -11.82      | 46.00          | QP       |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-12    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Horizontal    |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module B at 903MHz and Receive by Module A at 903MHz |                |               |

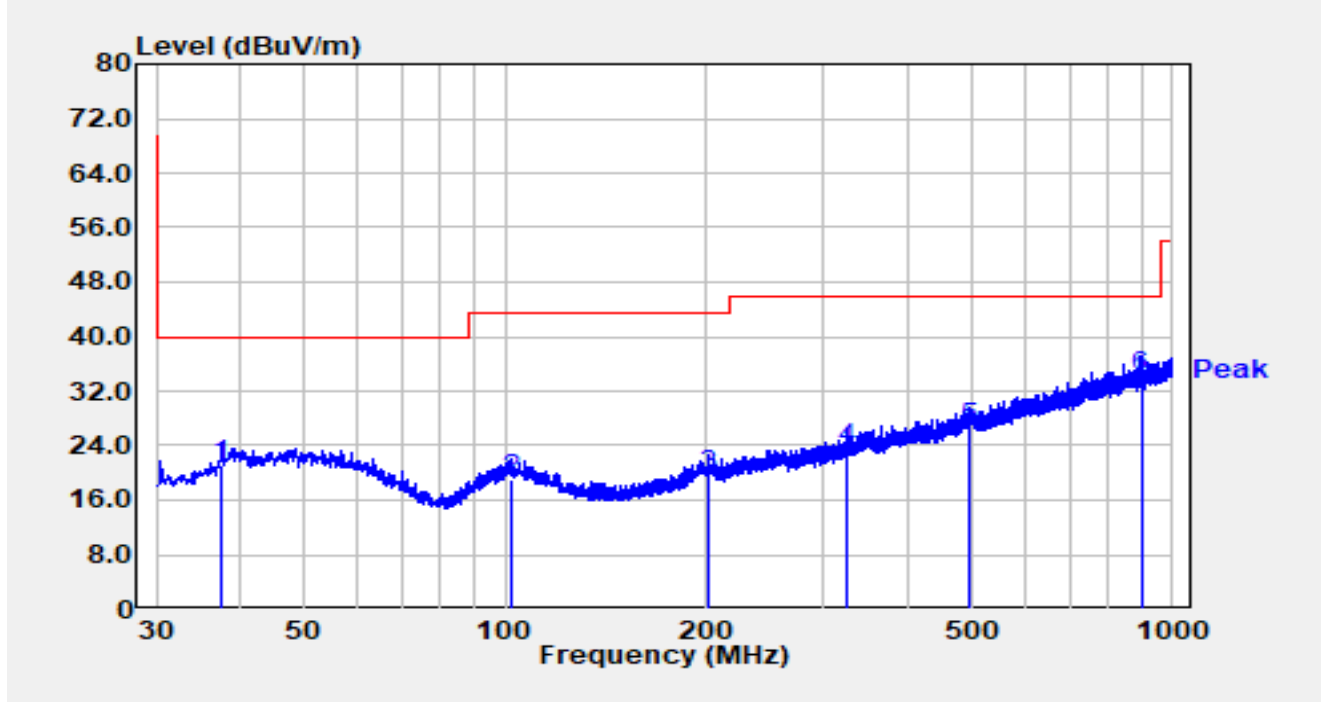


| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 45.132          | 0.38           | 20.28      | 20.66                | -19.34      | 40.00          | QP       |
| 2  |      | 103.235         | 0.10           | 18.59      | 18.69                | -24.81      | 43.50          | QP       |
| 3  |      | 198.974         | 0.92           | 18.92      | 19.83                | -23.67      | 43.50          | QP       |
| 4  |      | 348.451         | 0.32           | 22.82      | 23.14                | -22.86      | 46.00          | QP       |
| 5  |      | 603.658         | 1.70           | 27.44      | 29.14                | -16.86      | 46.00          | QP       |
| 6  | *    | 893.106         | 2.45           | 31.34      | 33.79                | -12.21      | 46.00          | QP       |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

|               |                                                                  |                |               |
|---------------|------------------------------------------------------------------|----------------|---------------|
| Site          | WZ-AC2                                                           | Test Date      | 2024-11-12    |
| Test Engineer | Ajin Fan                                                         | Temp./Humidity | 27.2°C /47.7% |
| Factor        | VULB 9162_30-7000MHz                                             | Polarity       | Vertical      |
| EUT           | Mini Dual RF UHF Module SiLabs                                   | Test Voltage   | DC 12V        |
| Test Mode     | Transmit by Module B at 903MHz and Receive by Module A at 903MHz |                |               |



| No | Mark | Frequency (MHz) | Reading (dBμV) | C.F (dB/m) | Measurement (dBμV/m) | Margin (dB) | Limit (dBμV/m) | Detector |
|----|------|-----------------|----------------|------------|----------------------|-------------|----------------|----------|
| 1  |      | 37.469          | 2.77           | 18.43      | 21.20                | -18.80      | 40.00          | QP       |
| 2  |      | 102.265         | 0.36           | 18.59      | 18.95                | -24.55      | 43.50          | QP       |
| 3  |      | 201.205         | 0.92           | 18.85      | 19.77                | -23.73      | 43.50          | QP       |
| 4  |      | 324.007         | 1.91           | 21.65      | 23.56                | -22.44      | 46.00          | QP       |
| 5  |      | 495.309         | 1.18           | 25.43      | 26.61                | -19.39      | 46.00          | QP       |
| 6  | *    | 897.083         | 2.59           | 31.42      | 34.01                | -11.99      | 46.00          | QP       |

Notes:

1. " \*", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
4. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



## **Appendix B - Test Setup Photograph**

Refer to “2411RSU001-UT” file.

## Appendix C - EUT Photograph

Refer to “2411RSU001-UE” file.

\_\_\_\_\_ The End \_\_\_\_\_