

**CFR 47 FCC PART 15 SUBPART C**

**TEST REPORT**

*For*

**Wireless POS**

**MODEL NUMBER: AF820**

**REPORT NUMBER: E04A25010071F00304**

**ISSUE DATE: March 14, 2025**

**FCC ID: 2BLHD-AF820**

*Prepared for*

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**This report is based on a single evaluation of the submitted sample(s) of the above mentioned  
Product, it does not imply an assessment of the production of the products.**

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Global Testing Technology Co., Ltd.**

Revision History

| Rev. | Issue Date     | Revisions     | Revised By |
|------|----------------|---------------|------------|
| V0   | March 14, 2025 | Initial Issue |            |

**Summary of Test Results**

| Test Item                        | Clause                                                | Result |
|----------------------------------|-------------------------------------------------------|--------|
| Antenna Requirement              | CFR 47 FCC §15.203                                    | Pass   |
| AC Power Line Conducted Emission | CFR 47 FCC §15.207                                    | Pass   |
| Radiated Spurious Emissions      | CFR 47 FCC §5.225(a)(b)(c)(d)<br>CFR 47 FCC§15.209(a) | Pass   |
| 20dB Bandwidth                   | CFR 47 FCC §15.215                                    | Pass   |
| Frequency Stability Tolerance    | CFR 47 FCC §15.225(e)                                 | Pass   |

\*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

\*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Accuracy Method> decision rule is applied.

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Beijing Shenzhou Anfu Technology Co.,Ltd  
Address: Room 1102, Block A, Longyu Center, Huilongguan, Changping District, Beijing, China

### Manufacturer Information

Company Name: Beijing Shenzhou Anfu Technology Co.,Ltd  
Address: Room 1102, Block A, Longyu Center, Huilongguan, Changping District, Beijing, China

### EUT Information

Product Description: Wireless POS  
Model: AF820  
Brand: ANFU  
Sample Received Date: January 6, 2025  
Sample Status: Normal  
Sample ID: A25010071 001  
Date of Tested: January 6, 2025 to February 28, 2025

| APPLICABLE STANDARDS         |              |
|------------------------------|--------------|
| STANDARD                     | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART C | Pass         |

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Checked By:



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Laboratory Leader

## 2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 6947.01)</b><br/>Guangdong Global Testing Technology Co., Ltd.<br/>has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1343)</b><br/>Guangdong Global Testing Technology Co., Ltd.<br/>has been recognized to perform compliance testing on equipment<br/>subject to Supplier's Declaration of Conformity (SDoC) and<br/>Certification rules</p> <p><b>ISED (Company No.: 30714)</b><br/>Guangdong Global Testing Technology Co., Ltd.<br/>has been registered and fully described in a report filed with ISED.<br/>The Company Number is 30714 and the test lab Conformity<br/>Assessment Body Identifier (CABID) is CN0148.</p> |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Items                                                                                                                                       | k    | Uncertainty                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------|
| 20dB Emission Bandwidth                                                                                                                          | 1.96 | ±9.2 PPM                                                                                                    |
| Conducted Output Power                                                                                                                           | 1.96 | ±1.5 dB                                                                                                     |
| Power Spectral Density Level                                                                                                                     | 1.96 | ±1.9 dB                                                                                                     |
| Conducted Spurious Emission                                                                                                                      | 1.96 | 9 kHz-30 MHz: ± 0.95 dB<br>30 MHz-1 GHz: ± 1.5 dB<br>1GHz-12.75GHz: ± 1.8 dB<br>12.75 GHz-26.5 GHz: ± 2.1dB |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96. |      |                                                                                                             |

| Test Item                                                                                                                                     | Measurement Frequency Range | K | U(dB) |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---|-------|
| Conducted emissions from the AC mains power ports (AMN)                                                                                       | 150 kHz ~ 30 MHz            | 2 | 3.37  |
| Radiated emissions                                                                                                                            | 9 kHz ~ 30 MHz              | 2 | 4.16  |
| Radiated emissions                                                                                                                            | 30 MHz ~ 1 GHz              | 2 | 3.79  |
| Radiated emissions                                                                                                                            | 1 GHz ~ 18 GHz              | 2 | 5.62  |
| Radiated emissions                                                                                                                            | 18 GHz ~ 40 GHz             | 2 | 5.54  |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                             |   |       |

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

|                  |         |                      |
|------------------|---------|----------------------|
| EUT Name         |         | Wireless POS         |
| Model            |         | AF820                |
| Hardware Version |         | V1.00                |
| Software Version |         | V1.00                |
| Ratings          |         | DC 5V / Battery 3.7V |
| Battery1 Ratings |         | 3.7V 4800mAh 17.76Wh |
| Battery2 Ratings |         | 3.7V 5200mAh 19.24Wh |
| Power Supply     | DC      | 5V                   |
|                  | Battery | 3.7V                 |

|                      |           |
|----------------------|-----------|
| Operation Frequency: | 13.56 MHz |
| Type of Modulation:  | ASK       |

### 5.2. CHANNEL LIST

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 13.56           | /       | /               | /       | /               | /       | /               |

### 5.3. MAXIMUM FIELD STRENGTH

| Frequency (MHz) | Max field strength (dBμV/m) |
|-----------------|-----------------------------|
| 13.56           | 66.18                       |

### 5.4. TEST CHANNEL CONFIGURATION

| Test Channel      | Frequency |
|-------------------|-----------|
| CH 1(Low Channel) | 13.56 MHz |

### 5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 13.56MHz Band |                         |                             |
|------------------------------------------------------------|-------------------------|-----------------------------|
| Test Software Version                                      |                         | /                           |
| Modulation Type                                            | Transmit Antenna Number | Test Software setting value |
|                                                            |                         | CH 1                        |
| ASK                                                        | 1                       | default                     |

**5.6. DESCRIPTION OF AVAILABLE ANTENNAS**

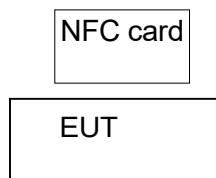
| Antenna | Frequency (MHz) | Antenna Type     | MAX Antenna Gain (dBi) |
|---------|-----------------|------------------|------------------------|
| 1       | 13.56           | Internal antenna | 0                      |

**5.7. SUPPORT UNITS FOR SYSTEM TEST**

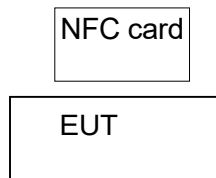
| No. | Equipment | Manufacturer                          | Model No. | Serial No. | Remark |
|-----|-----------|---------------------------------------|-----------|------------|--------|
| 1   | NFC card  | Shenzhen Southking Technology Co.,Ltd | /         | /          | /      |

**5.8. SETUP DIAGRAM**

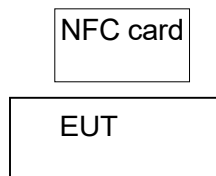
AC conducted emission :



Radiated Emission:



RF conducted:



## 6. MEASURING EQUIPMENT AND SOFTWARE USED

| Test Equipment of Conducted RF      |                 |                      |             |            |            |
|-------------------------------------|-----------------|----------------------|-------------|------------|------------|
| Equipment                           | Manufacturer    | Model No.            | Serial No.  | Last Cal.  | Due Date   |
| Spectrum Analyzer                   | Rohde & Schwarz | FSV40                | 102257      | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer                   | KEYSIGHT        | N9020A               | MY51285127  | 2024/09/14 | 2025/09/13 |
| EXG Analog Signal Generator         | KEYSIGHT        | N5173B               | MY61253075  | 2024/09/14 | 2025/09/13 |
| Vector Signal Generator             | Rohde & Schwarz | SMM100A              | 101899      | 2024/09/14 | 2025/09/13 |
| RF Control box                      | MWRF-test       | MW100-RFCB           | MW220926GTG | 2024/09/14 | 2025/09/13 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW270               | 102792      | 2024/09/14 | 2025/09/13 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500               | 103235      | 2024/09/14 | 2025/09/13 |
| temperature humidity chamber        | Espec           | SH-241               | SH-241-2014 | 2024/09/14 | 2025/09/13 |
| RF Test Software                    | MWRF-test       | MTS8310E (Ver. V2/0) | N/A         | N/A        | N/A        |

| Test Equipment of Radiated emissions below 1GHz |                 |                         |            |            |            |
|-------------------------------------------------|-----------------|-------------------------|------------|------------|------------|
| Equipment                                       | Manufacturer    | Model No.               | Serial No. | Last Cal.  | Due Date   |
| 3m Semi-anechoic Chamber                        | ETS             | 9m*6m*6m                | Q2146      | 2022/08/30 | 2025/08/29 |
| EMI Test Receiver                               | Rohde & Schwarz | ESCI3                   | 101409     | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer                               | KEYSIGHT        | N9020A                  | MY51283932 | 2024/09/14 | 2025/09/13 |
| Pre-Amplifier                                   | HzEMC           | HPA-9K0130              | HYP A21001 | 2024/09/14 | 2025/09/13 |
| Biconilog Antenna                               | Schwarzbeck     | VULB 9168               | 01315      | 2022/10/10 | 2025/10/09 |
| Biconilog Antenna                               | ETS             | 3142E                   | 00243646   | 2022/03/23 | 2025/03/22 |
| Loop Antenna                                    | ETS             | 6502                    | 243668     | 2022/03/30 | 2025/03/29 |
| Test Software                                   | Farad           | EZ-EMC (Ver.FA-03A2 RE) | N/A        | N/A        | N/A        |

| Test Equipment of Radiated emissions above 1GHz |                 |            |            |            |            |
|-------------------------------------------------|-----------------|------------|------------|------------|------------|
| Equipment                                       | Manufacturer    | Model No.  | Serial No. | Last Cal.  | Due Date   |
| 3m Semi-anechoic Chamber                        | ETS             | 9m*6m*6m   | Q2149      | 2022/08/30 | 2025/08/29 |
| Spectrum Analyzer                               | Rohde & Schwarz | FSV40      | 101413     | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer                               | KEYSIGHT        | N9020A     | MY51283932 | 2024/09/14 | 2025/09/13 |
| Pre-Amplifier                                   | A-INFO          | HPA-1G1850 | HYP A21003 | 2024/09/14 | 2025/09/13 |
| Horn antenna                                    | A-INFO          | 3117       | 246069     | 2022/03/11 | 2025/03/10 |
| Pre-Amplifier                                   | ZKJC            | HPA-184057 | HYP A21004 | 2024/09/14 | 2025/09/13 |

|               |       |                                |        |            |            |
|---------------|-------|--------------------------------|--------|------------|------------|
| Horn antenna  | ZKJC  | 3116C                          | 246265 | 2022/03/29 | 2025/03/28 |
| Test Software | Farad | EZ-EMC<br>(Ver.FA-03A2<br>RE+) | N/A    | N/A        | N/A        |

| Test Equipment of Conducted emissions |                 |                                    |            |            |            |
|---------------------------------------|-----------------|------------------------------------|------------|------------|------------|
| Equipment                             | Manufacturer    | Model No.                          | Serial No. | Last Cal.  | Due Date   |
| Shielded Room                         | CHENG YU        | 8m*5m*4m                           | N/A        | 2022/10/29 | 2025/10/28 |
| EMI Test Receiver                     | Rohde & Schwarz | ESR3                               | 102647     | 2024/09/14 | 2025/09/13 |
| LISN/AMN                              | Rohde & Schwarz | ENV216                             | 102843     | 2024/09/14 | 2025/09/13 |
| NNLK 8129 RC                          | Schwarzbeck     | NNLK 8129 RC                       | 5046       | 2024/09/14 | 2025/09/13 |
| 8-Wire ISN CAT6                       | Schwarzbeck     | NTFM8158                           | #237       | 2024/09/14 | 2025/09/13 |
| CURRENT PROBE                         | Rohde & Schwarz | EZ-17                              | 101602     | 2024/09/14 | 2025/09/13 |
| Test Software                         | Farad           | EZ-EMC (Ver.<br>EMC-con-3A1<br>1+) | N/A        | N/A        | N/A        |

## 7. ANTENNA PORT TEST RESULTS

### 7.1. 20DB BANDWIDTH

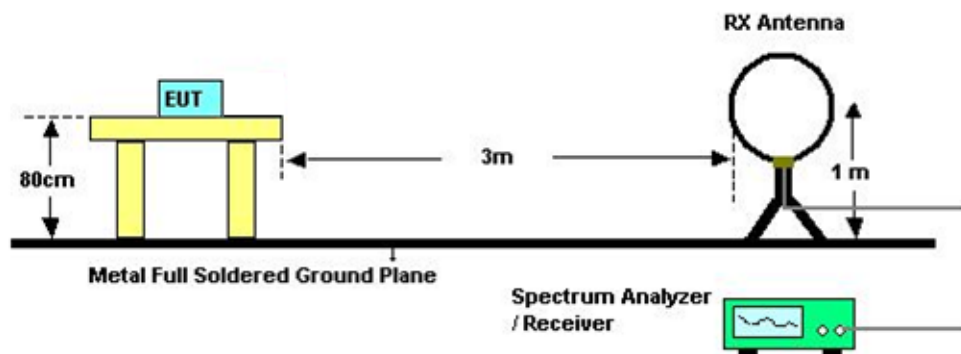
#### LIMITS

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

#### TEST PROCEDURE

- 1) The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- 2) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- 3) If the EUT is a floor standing device, it is placed on the ground.
- 4) Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- 5) The EUT is connected to DC Power Source.
- 6) The measurement distance is 3 meter.
- 7) The EUT was set into operation.
- 8) Adjust the test instrument for the following setting  
RBW: 1% to 5% of the Necessary bandwidth  
VBW: at least 3 times of the RBW  
Detector: Peak  
Sweep time: Auto  
Trace Mode: Max hold
- 9) Allow trace to fully stabilize

#### TEST SETUP

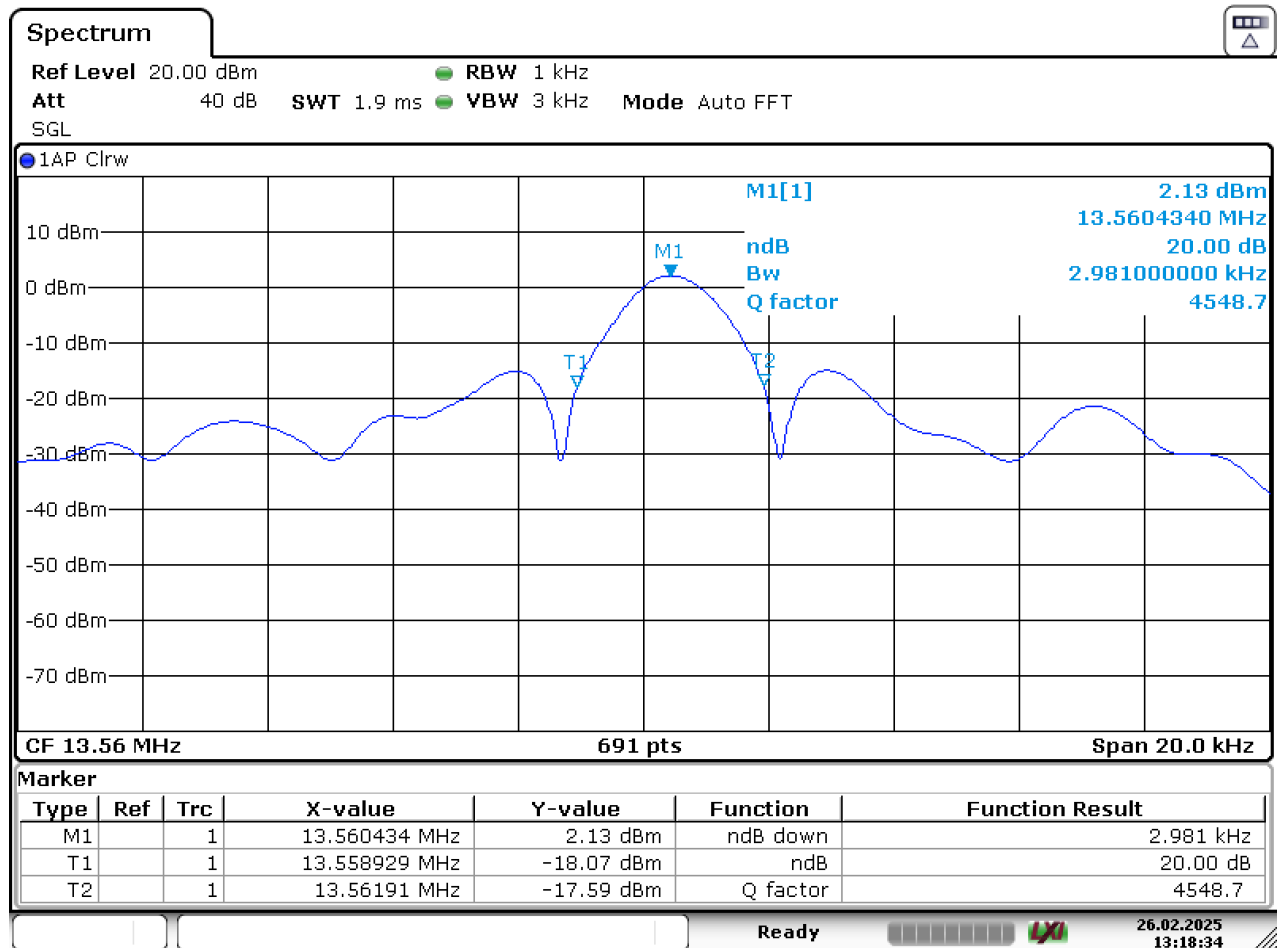


**TEST ENVIRONMENT**

|                     |        |                   |     |
|---------------------|--------|-------------------|-----|
| Temperature         | 24.2°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa |                   |     |

**TEST RESULTS**

| Frequency (MHz) | 20dB Bandwidth (kHz) | limit | Test Result |
|-----------------|----------------------|-------|-------------|
| 13.56           | 2.981                | N/A   | PASS        |



Date: 26.FEB.2025 13:18:34

## 7.2. FREQUENCY TOLERANCE (TEMPERATURE VARIATION AND VOLTAGE VARIATION)

### LIMITS

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of operating frequency over a temperature variation of -20degrees to +50 degrees C at normal supply voltage , and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### TEST PROCEDURE

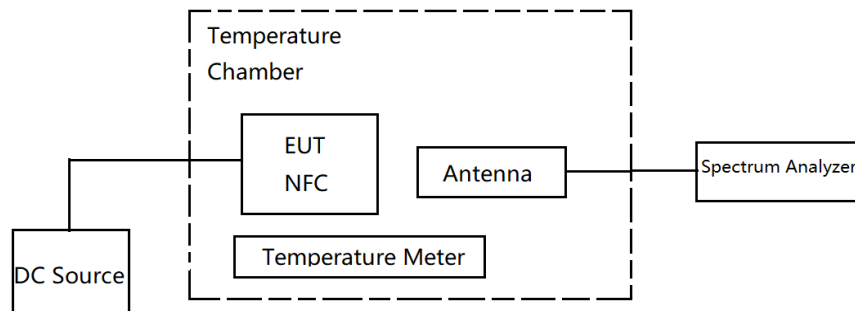
Frequency tolerance (Temperature variation)

- 1) The EUT and test equipment were setup as shown on the following page.
- 2) Set the temperature -20 degrees C.
- 3) Leave the EUT for 1 hour after it become the temperature that was setup.
- 4) Setup the EUT to transmitting.
- 5) Measure the transmitting frequency (startup, 2min, 5min and 10min).
- 6) Set the temperature -10 degrees C to +50 degrees C.
- 7) Repeat test procedure the step 4 to 6, and record the test data after the testing finished.

Frequency tolerance (Voltage variation)

- 1) The EUT and test equipment (set the supply voltage 100%) were setup as shown on the following page.
- 2) Set the temperature 20 degrees C.
- 3) Leave the EUT for 1 hour after it become the temperature that was setup.
- 4) Setup the EUT to transmitting.
- 5) Measure the transmitting frequency.
- 6) Set the supply voltage 85% and 115%
- 7) Repeat test procedure the step 4 to 6, and record the test data after the testing finished.

### TEST SETUP



**TEST ENVIRONMENT**

|                     |        |                   |     |
|---------------------|--------|-------------------|-----|
| Temperature         | 20℃    | Relative Humidity | 53% |
| Atmosphere Pressure | 101kPa |                   |     |

**TEST RESULTS**

startup

| Transmitting Frequency (MHz) | Temperature (Degree C) | Voltage (V) | Frequency (MHz) | Deviation(%) | Limit(±) (%) |
|------------------------------|------------------------|-------------|-----------------|--------------|--------------|
| 13.56                        | -10                    | 3.70        | 13.560082       | 0.000605     | 0.01         |
|                              | 0                      | 3.70        | 13.560493       | 0.003636     | 0.01         |
|                              | 10                     | 3.70        | 13.560521       | 0.003842     | 0.01         |
|                              | 20                     | 3.70        | 13.560705       | 0.005199     | 0.01         |
|                              | 30                     | 3.70        | 13.560585       | 0.004314     | 0.01         |
|                              | 40                     | 3.70        | 13.560517       | 0.003813     | 0.01         |
|                              | 50                     | 3.70        | 13.560859       | 0.006335     | 0.01         |

2min

| Transmitting Frequency (MHz) | Temperature (Degree C) | Voltage (V) | Frequency (MHz) | Deviation(%) | Limit(±) (%) |
|------------------------------|------------------------|-------------|-----------------|--------------|--------------|
| 13.56                        | -10                    | 3.70        | 13.560060       | 0.000442     | 0.01         |
|                              | 0                      | 3.70        | 13.560688       | 0.005074     | 0.01         |
|                              | 10                     | 3.70        | 13.560794       | 0.005855     | 0.01         |
|                              | 20                     | 3.70        | 13.560226       | 0.001667     | 0.01         |
|                              | 30                     | 3.70        | 13.560433       | 0.003193     | 0.01         |
|                              | 40                     | 3.70        | 13.560842       | 0.006209     | 0.01         |
|                              | 50                     | 3.70        | 13.560964       | 0.007109     | 0.01         |

5min

| Transmitting Frequency (MHz) | Temperature (Degree C) | Voltage (V) | Frequency (MHz) | Deviation(%) | Limit(±) (%) |
|------------------------------|------------------------|-------------|-----------------|--------------|--------------|
| 13.56                        | -10                    | 3.70        | 13.560366       | 0.002699     | 0.01         |
|                              | 0                      | 3.70        | 13.560688       | 0.005074     | 0.01         |
|                              | 10                     | 3.70        | 13.560794       | 0.005855     | 0.01         |
|                              | 20                     | 3.70        | 13.560226       | 0.001667     | 0.01         |
|                              | 30                     | 3.70        | 13.560433       | 0.003193     | 0.01         |
|                              | 40                     | 3.70        | 13.560842       | 0.006209     | 0.01         |
|                              | 50                     | 3.70        | 13.560964       | 0.007109     | 0.01         |

10min

| Transmitting Frequency (MHz) | Temperature (Degree C) | Voltage (V) | Frequency (MHz) | Deviation(%) | Limit(±) (%) |
|------------------------------|------------------------|-------------|-----------------|--------------|--------------|
| 13.56                        | -10                    | 3.70        | 13.560146       | 0.001077     | 0.01         |
|                              | 0                      | 3.70        | 13.560768       | 0.005664     | 0.01         |
|                              | 10                     | 3.70        | 13.560794       | 0.005855     | 0.01         |
|                              | 20                     | 3.70        | 13.560226       | 0.001667     | 0.01         |
|                              | 30                     | 3.70        | 13.560433       | 0.003193     | 0.01         |
|                              | 40                     | 3.70        | 13.560842       | 0.006209     | 0.01         |
|                              | 50                     | 3.70        | 13.560964       | 0.007109     | 0.01         |

**Frequency tolerance (Voltage variation)**

| Transmitting Frequency (MHz) | Temperature (Degree C) | Voltage (V) | Frequency (MHz) | Deviation(%) | Limit(±) (%) |
|------------------------------|------------------------|-------------|-----------------|--------------|--------------|
| 13.56                        | 20                     | 3.33        | 13.560158       | 0.001165     | 0.01         |
|                              | 20                     | 3.70        | 13.560436       | 0.003215     | 0.01         |
|                              | 20                     | 4.26        | 13.560688       | 0.005074     | 0.01         |

## 8. RADIATED TEST RESULTS

### LIMITS

Fundamental field strength

|                   |                                       |
|-------------------|---------------------------------------|
| FCC Reference:    | Part 15.225(a)(b)(c)(d) & 15.209(a)   |
| Test Method Used: | ANSI C63.10 Sections 6.3, 6.4 and 6.5 |

| Frequency (MHz)             | Field Strength (uV/m) | Field Strength (dBuV/m) | Measured Distance (Meters) |
|-----------------------------|-----------------------|-------------------------|----------------------------|
| 13.553-13.567               | 15848                 | 84                      | 30                         |
| 13.410-13.553/13.567-13.710 | 334                   | 50.47                   | 30                         |
| 13.110-13.410/13.710-14.010 | 106                   | 40.51                   | 30                         |

Note(s):

1. The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

2. The limit is specified at a test distance of 30 meters. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz |                                    |                                      |         |
|--------------------------------------------------------------------------|------------------------------------|--------------------------------------|---------|
| Frequency Range (MHz)                                                    | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |         |
|                                                                          |                                    | Quasi-Peak                           |         |
| 30 - 88                                                                  | 100                                | 40                                   |         |
| 88 - 216                                                                 | 150                                | 43.5                                 |         |
| 216 - 960                                                                | 200                                | 46                                   |         |
| Above 960                                                                | 500                                | 54                                   |         |
| Above 1000                                                               | 500                                | Peak                                 | Average |
|                                                                          |                                    | 74                                   | 54      |

FCC Emissions radiated outside of the specified frequency bands below 30 MHz

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |

#### ISED General field strength limits at frequencies below 30 MHz

| Table 6 – General field strength limits at frequencies below 30 MHz |                                          |                          |
|---------------------------------------------------------------------|------------------------------------------|--------------------------|
| Frequency                                                           | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) |
| 9 - 490 kHz <sup>Note 1</sup>                                       | 6.37/F (F in kHz)                        | 300                      |
| 490 - 1705 kHz                                                      | 63.7/F (F in kHz)                        | 30                       |
| 1.705 - 30 MHz                                                      | 0.08                                     | 30                       |

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

| Table 7 – Restricted frequency bands <sup>Note 1</sup> |                       |               |
|--------------------------------------------------------|-----------------------|---------------|
| MHz                                                    | MHz                   | GHz           |
| 0.090 - 0.110                                          | 149.9 - 150.05        | 9.0 - 9.2     |
| 0.495 - 0.505                                          | 156.52475 - 156.52525 | 9.3 - 9.5     |
| 2.1735 - 2.1905                                        | 156.7 - 156.9         | 10.6 - 12.7   |
| 3.020 - 3.026                                          | 162.0125 - 167.17     | 13.25 - 13.4  |
| 4.125 - 4.128                                          | 167.72 - 173.2        | 14.47 - 14.5  |
| 4.17725 - 4.17775                                      | 240 - 285             | 15.35 - 16.2  |
| 4.20725 - 4.20775                                      | 322 - 335.4           | 17.7 - 21.4   |
| 5.677 - 5.683                                          | 399.9 - 410           | 22.01 - 23.12 |
| 6.215 - 6.218                                          | 608 - 614             | 23.6 - 24.0   |
| 6.26775 - 6.26825                                      | 960 - 1427            | 31.2 - 31.8   |
| 6.31175 - 6.31225                                      | 1435 - 1626.5         | 36.43 - 36.5  |
| 8.291 - 8.294                                          | 1645.5 - 1646.5       | Above 38.6    |
| 8.362 - 8.366                                          | 1660 - 1710           |               |
| 8.37625 - 8.38675                                      | 1718.8 - 1722.2       |               |
| 8.41425 - 8.41475                                      | 2200 - 2300           |               |
| 12.29 - 12.293                                         | 2310 - 2390           |               |
| 12.51975 - 12.52025                                    | 2483.5 - 2500         |               |
| 12.57675 - 12.57725                                    | 2655 - 2900           |               |
| 13.36 - 13.41                                          | 3260 - 3267           |               |
| 16.42 - 16.423                                         | 3332 - 3339           |               |
| 16.69475 - 16.69525                                    | 3345.8 - 3358         |               |
| 16.80425 - 16.80475                                    | 3500 - 4400           |               |
| 25.5 - 25.67                                           | 4500 - 5150           |               |
| 37.5 - 38.25                                           | 5350 - 5460           |               |
| 73 - 74.6                                              | 7250 - 7750           |               |
| 74.8 - 75.2                                            | 8025 - 8500           |               |
| 108 - 138                                              |                       |               |

**Note 1:** Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

**TEST PROCEDURE**

Below 30 MHz

The setting of the spectrum analyser

|       |                                                                  |
|-------|------------------------------------------------------------------|
| RBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| VBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto                                                             |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to  $Y-51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

|          |          |
|----------|----------|
| RBW      | 120 kHz  |
| VBW      | 300 kHz  |
| Sweep    | Auto     |
| Detector | Peak/QP  |
| Trace    | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm 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. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

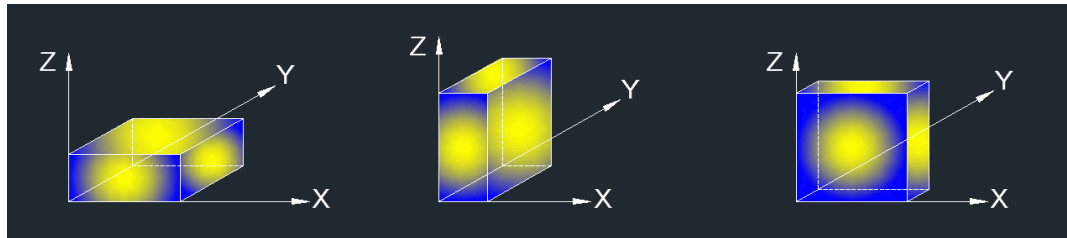
Above 1G

The setting of the spectrum analyser

|          |                                |
|----------|--------------------------------|
| RBW      | 1 MHz                          |
| VBW      | PEAK: 3 MHz<br>AVG: see note 6 |
| Sweep    | Auto                           |
| Detector | Peak                           |
| Trace    | Max hold                       |

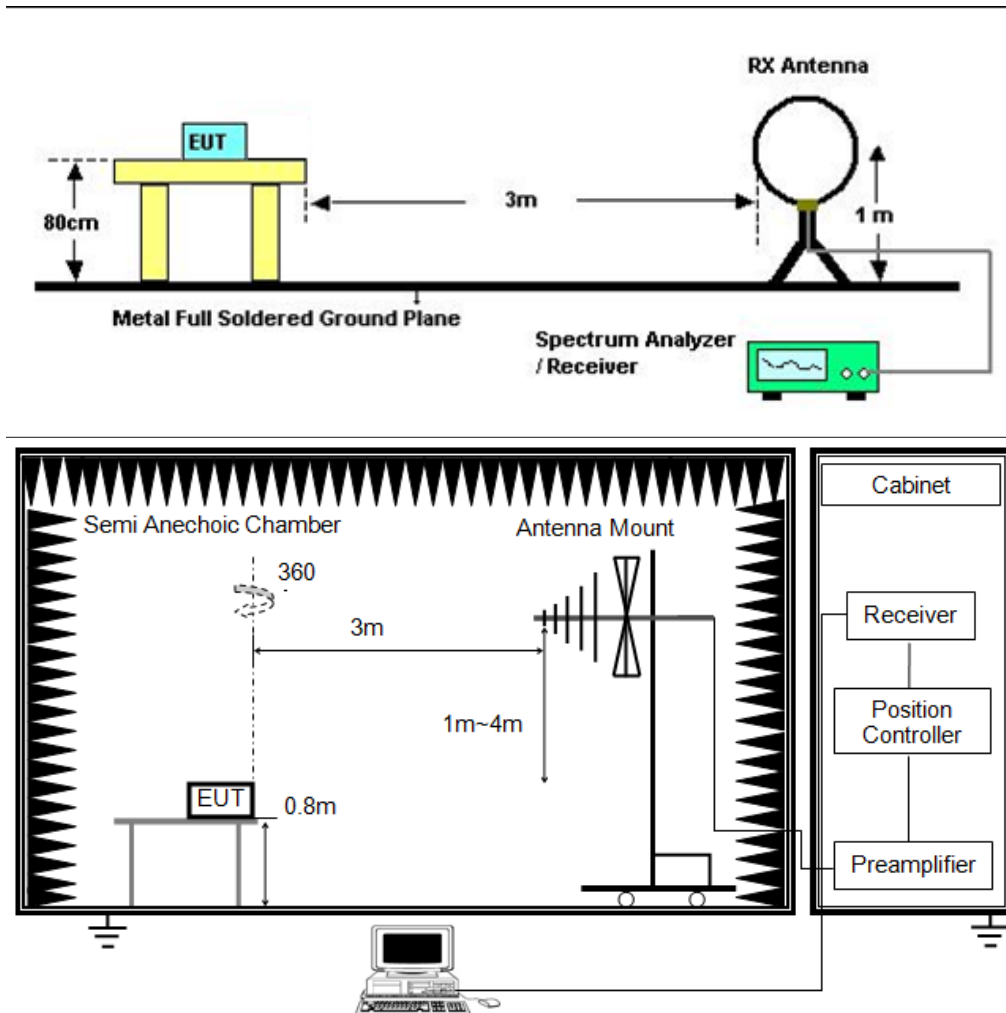
1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m 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. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

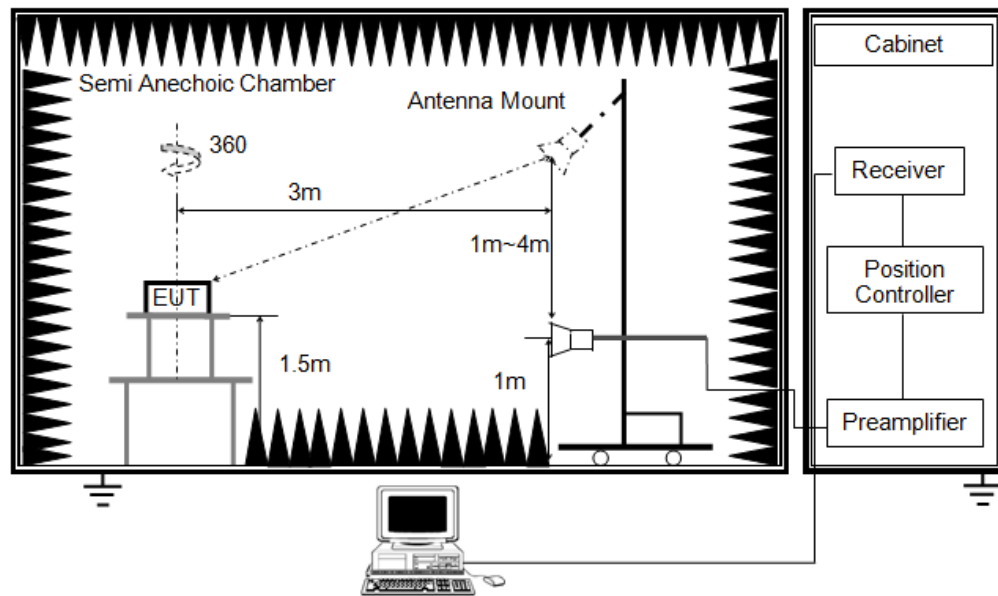
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

### TEST SETUP





### TEST ENVIRONMENT

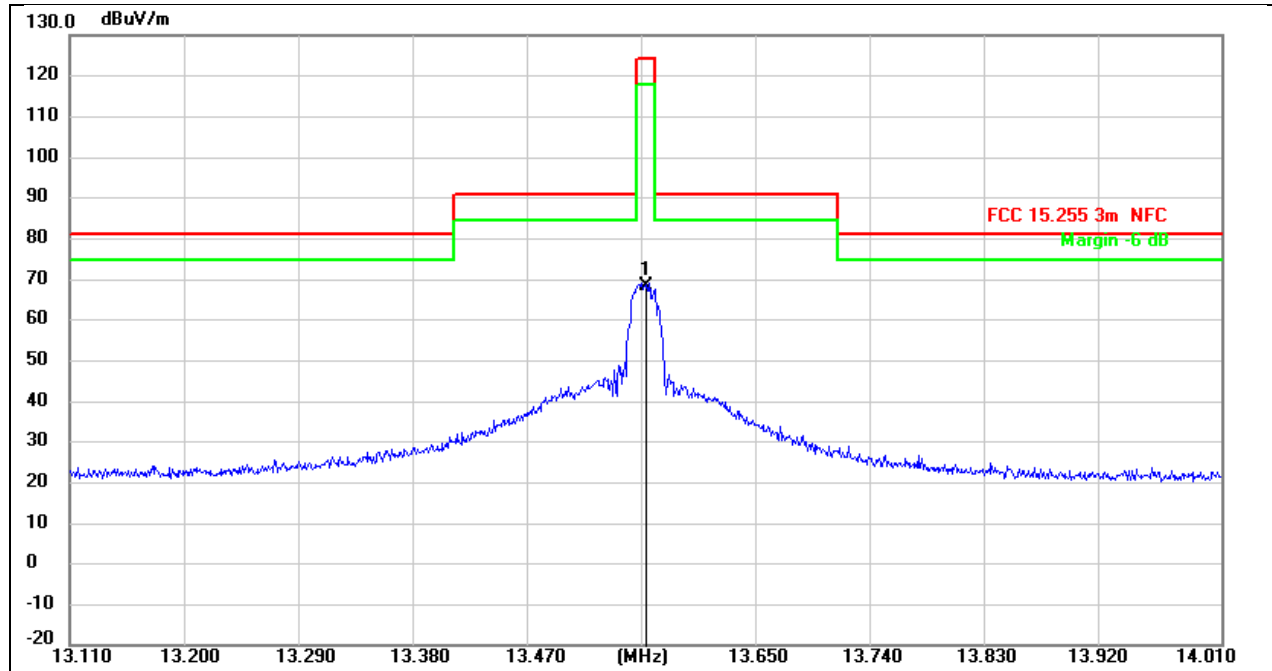
|                     |        |                   |     |
|---------------------|--------|-------------------|-----|
| Temperature         | 22.5°C | Relative Humidity | 50% |
| Atmosphere Pressure | 101kPa |                   |     |

### TEST RESULTS

Please refer to section 8.1.

## 8.1. RADIATED SPURIOUS EMISSION

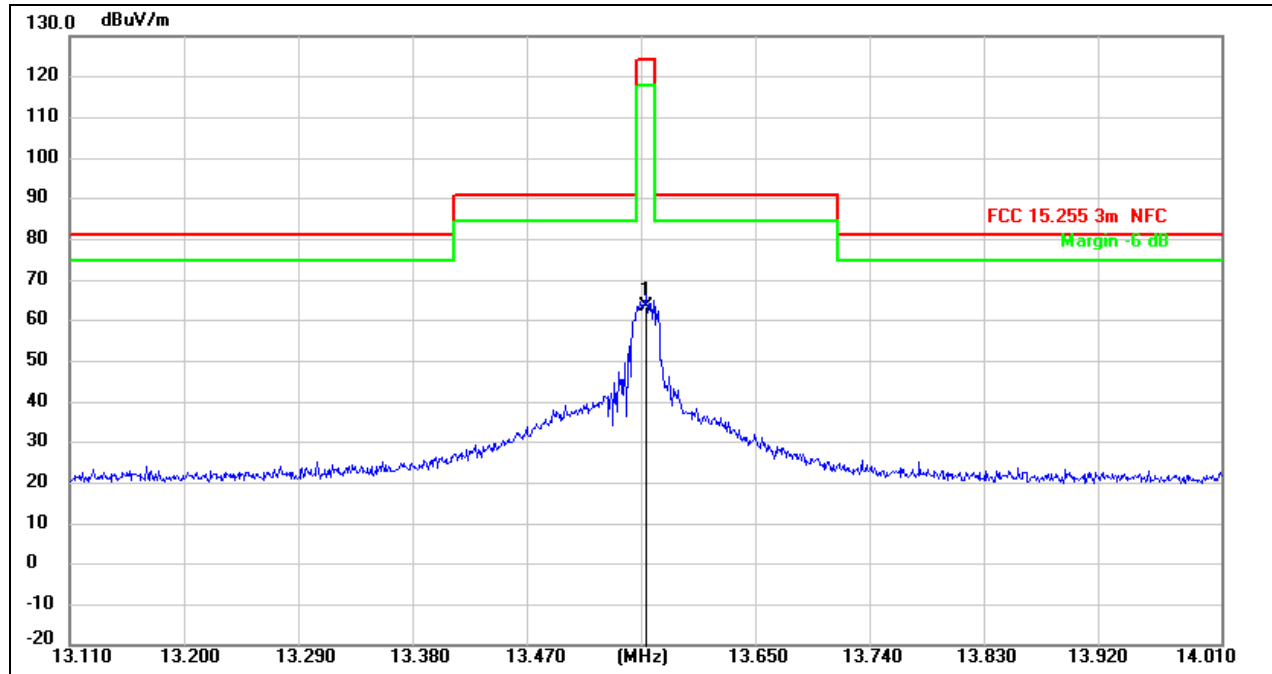
|        |                   |
|--------|-------------------|
| Mode:  | 13.56MHz          |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBuV) | Corr. (dB) | Meas. (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Pol.    |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|---------|
| 1 * | 13.5600     | 57.48          | 10.73      | 68.21          | 124.00         | -55.79      | QP   | coaxial |

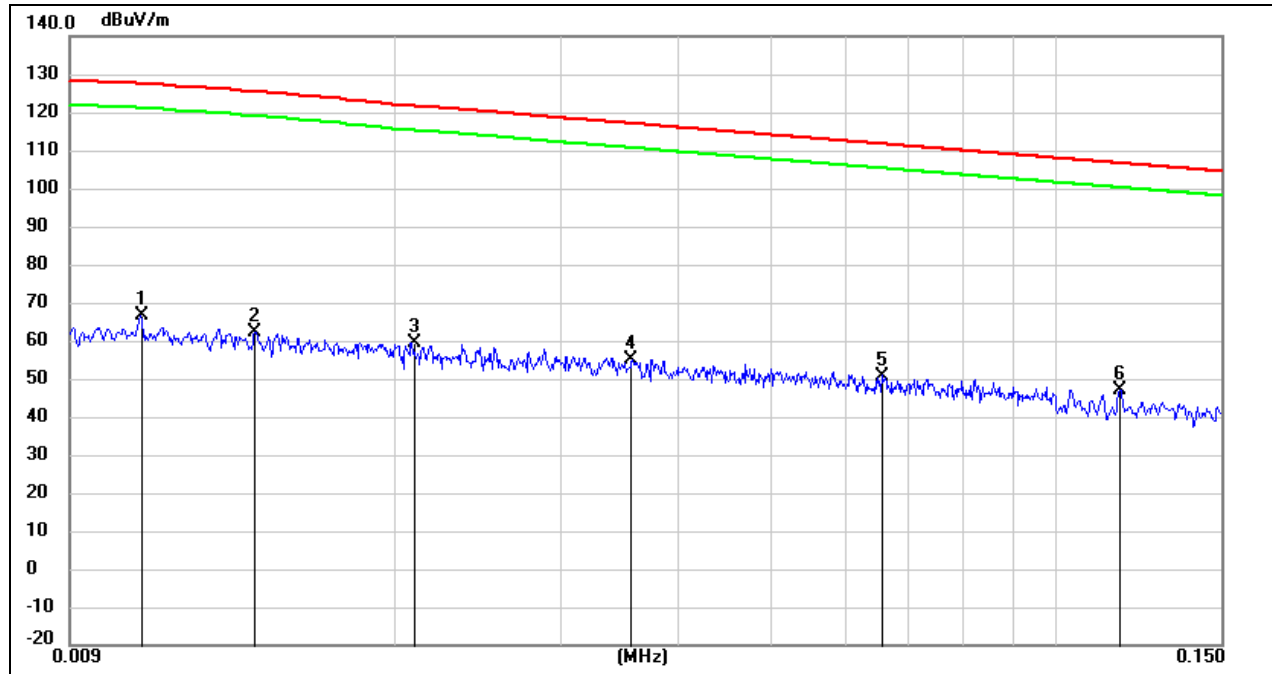
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBuV) | Corr. (dB) | Meas. (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Pol.     |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|----------|
| 1 * | 13.5600     | 52.75          | 10.73      | 63.48          | 124.00         | -60.52      | QP   | coplanar |

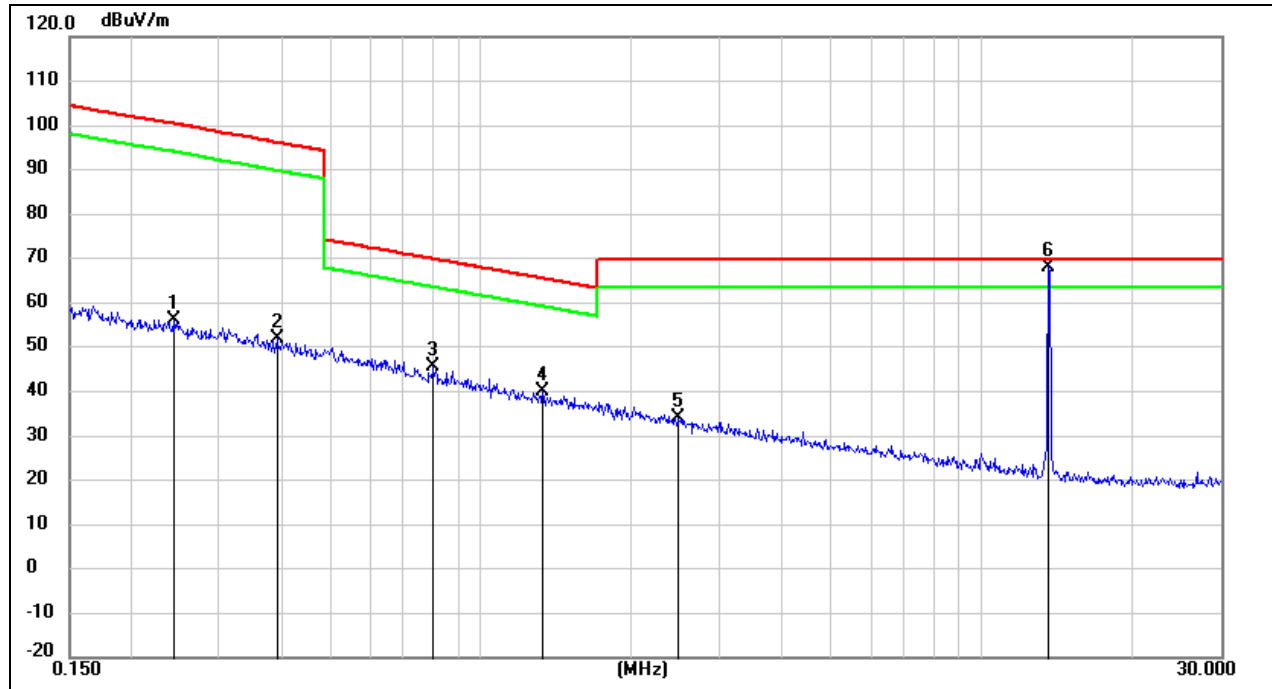
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol.    |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|---------|
| 1   | 0.0107      | 48.32          | 18.25      | 66.57          | 127.18         | -60.61      | QP   | coaxial |
| 2   | 0.0142      | 45.54          | 16.71      | 62.25          | 125.07         | -62.82      | QP   | coaxial |
| 3   | 0.0208      | 45.46          | 14.09      | 59.55          | 121.30         | -61.75      | QP   | coaxial |
| 4   | 0.0355      | 42.19          | 12.78      | 54.97          | 116.69         | -61.72      | QP   | coaxial |
| 5   | 0.0658      | 39.65          | 11.15      | 50.80          | 111.26         | -60.46      | QP   | coaxial |
| 6 * | 0.1171      | 36.23          | 10.75      | 46.98          | 106.24         | -59.26      | QP   | coaxial |

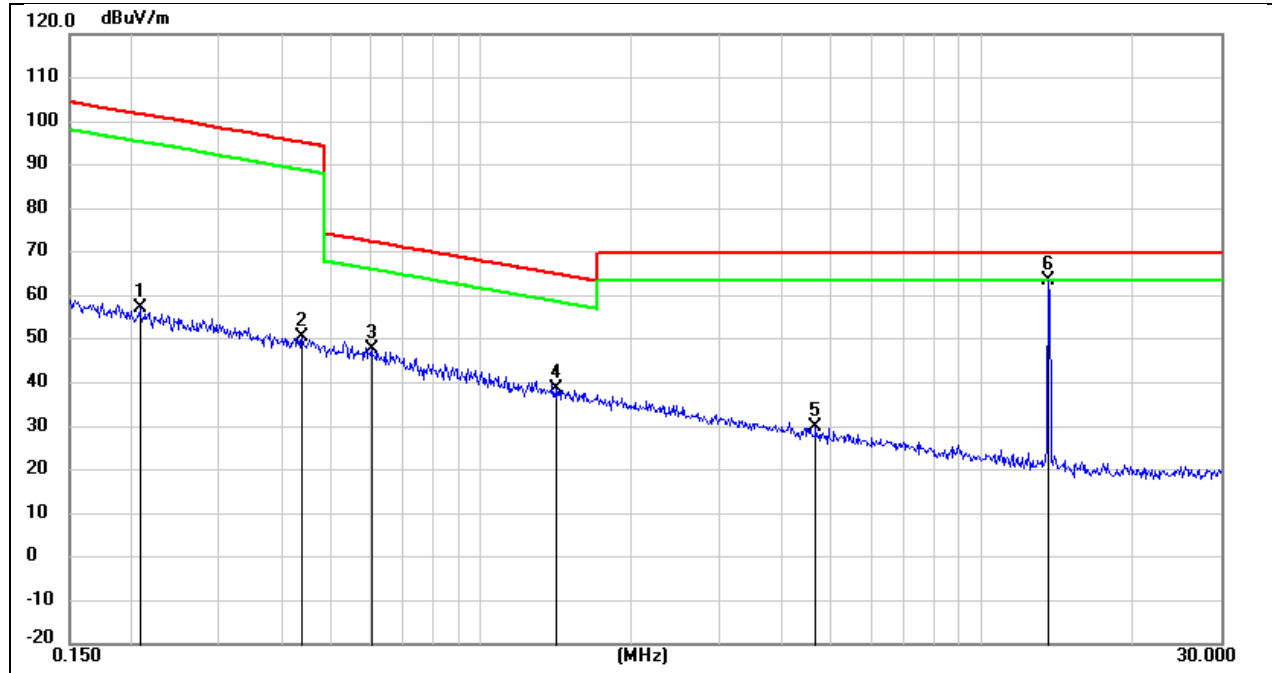
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol.    |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|---------|
| 1   | 0.2416      | 45.64          | 10.60      | 56.24          | 100.12         | -43.88      | QP   | coaxial |
| 2   | 0.3914      | 41.27          | 10.54      | 51.81          | 95.78          | -43.97      | QP   | coaxial |
| 3   | 0.8002      | 35.00          | 10.54      | 45.54          | 69.54          | -24.00      | QP   | coaxial |
| 4   | 1.3238      | 29.59          | 10.58      | 40.17          | 65.18          | -25.01      | QP   | coaxial |
| 5   | 2.4736      | 23.28          | 10.67      | 33.95          | 69.54          | -35.59      | QP   | coaxial |
| 6 * | 13.5604     | 57.27          | 10.73      | 68.00          | 69.54          | -1.54       | QP   | coaxial |

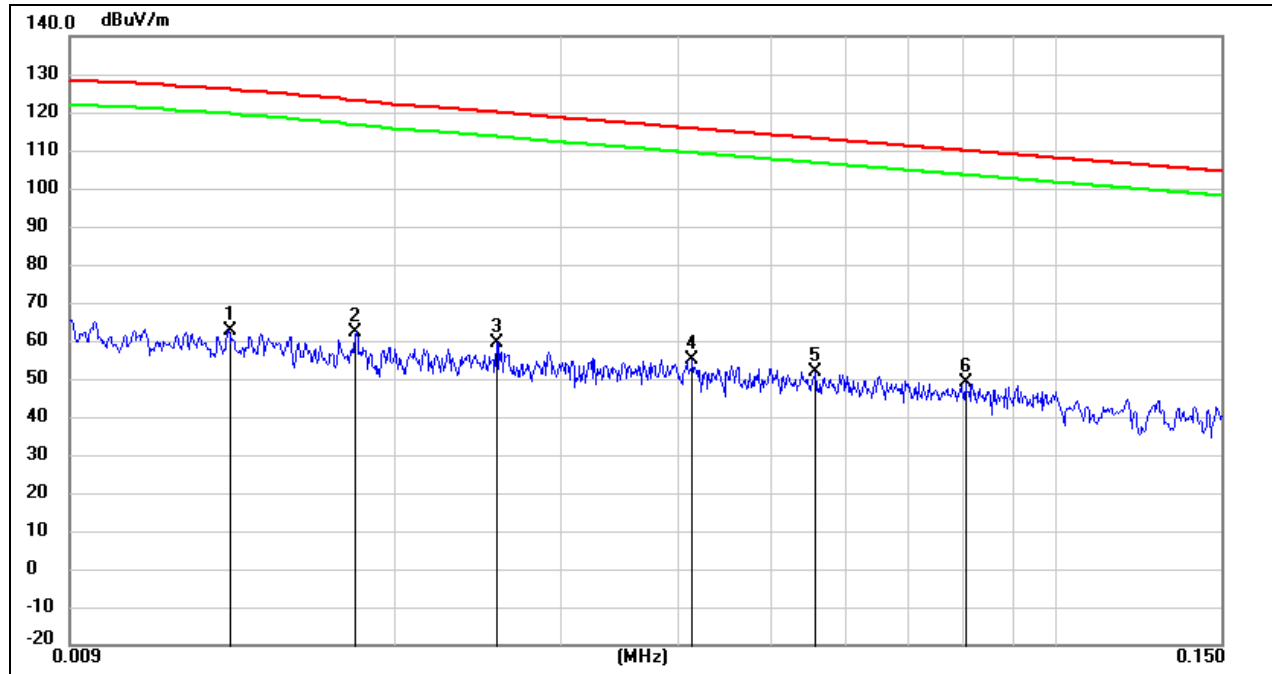
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol.     |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|----------|
| 1   | 0.2072      | 46.68          | 10.63      | 57.31          | 101.33         | -44.02      | QP   | coplanar |
| 2   | 0.4374      | 39.91          | 10.54      | 50.45          | 94.83          | -44.38      | QP   | coplanar |
| 3   | 0.6011      | 37.11          | 10.52      | 47.63          | 72.03          | -24.40      | QP   | coplanar |
| 4   | 1.4032      | 28.13          | 10.58      | 38.71          | 64.66          | -25.95      | QP   | coplanar |
| 5   | 4.6470      | 18.94          | 10.84      | 29.78          | 69.54          | -39.76      | QP   | coplanar |
| 6 * | 13.5604     | 52.92          | 10.73      | 63.65          | 69.54          | -5.89       | QP   | coplanar |

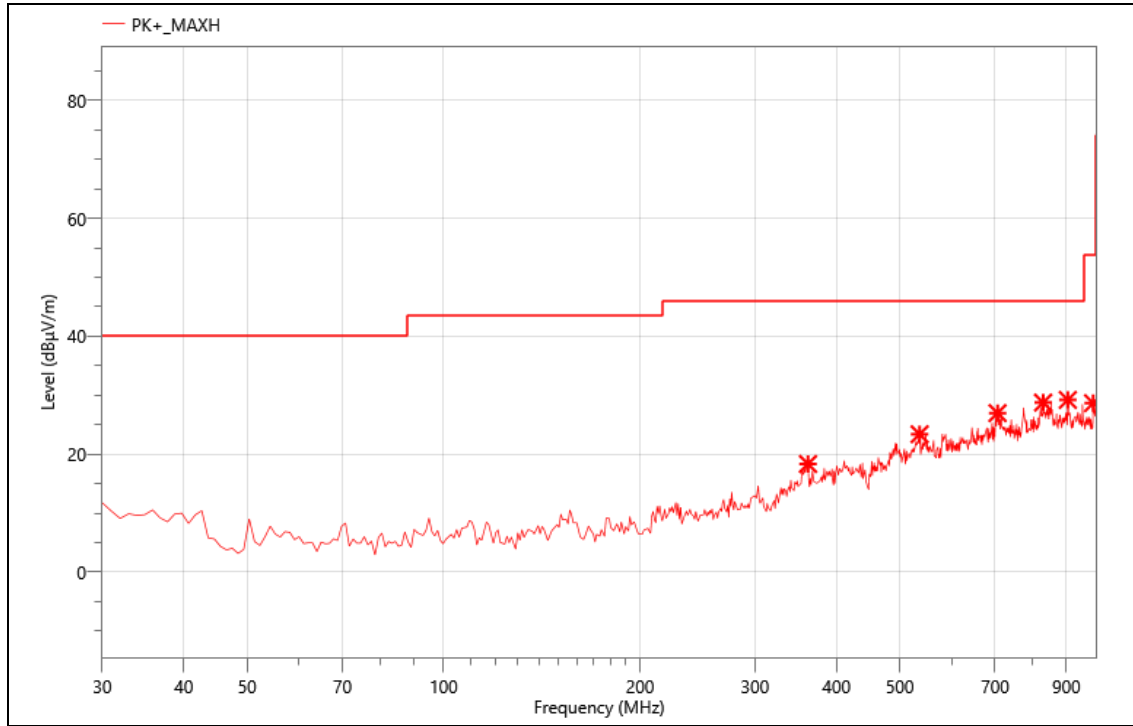
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/18        |
| T/A/P  | 22.5°C/50%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dB $\mu$ V) | Corr. (dB) | Meas. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Det. | Pol.     |
|-----|-------------|----------------------|------------|----------------------|----------------------|-------------|------|----------|
| 1   | 0.0133      | 45.55                | 17.11      | 62.66                | 125.61               | -62.95      | QP   | coplanar |
| 2   | 0.0181      | 47.14                | 15.00      | 62.14                | 122.72               | -60.58      | QP   | coplanar |
| 3 * | 0.0256      | 45.79                | 13.66      | 59.45                | 119.61               | -60.16      | QP   | coplanar |
| 4   | 0.0412      | 42.67                | 12.26      | 54.93                | 115.33               | -60.40      | QP   | coplanar |
| 5   | 0.0557      | 40.45                | 11.36      | 51.81                | 112.72               | -60.91      | QP   | coplanar |
| 6   | 0.0803      | 38.09                | 10.94      | 49.03                | 109.51               | -60.48      | QP   | coplanar |

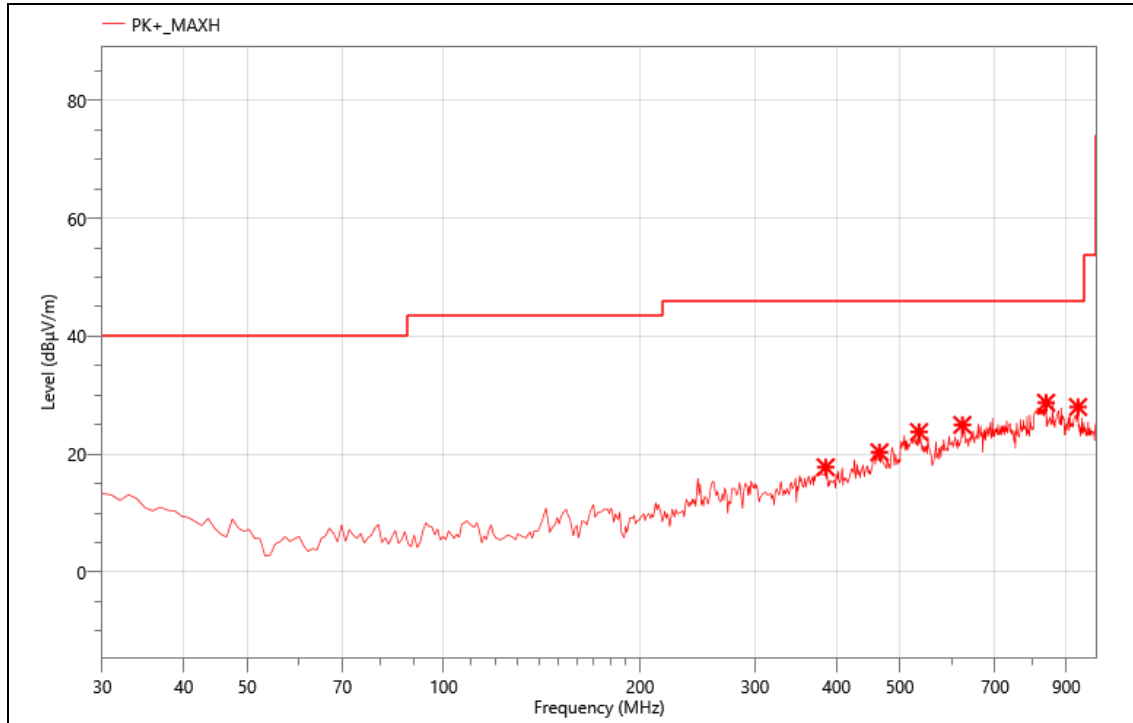
|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/21        |
| T/A/P  | 23.9°C/53%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1   | 361.740     | 33.97          | -15.63     | 18.34          | 46.00          | 27.66       | PK+  | H    |
| 2   | 536.340     | 33.56          | -10.17     | 23.39          | 46.00          | 22.61       | PK+  | H    |
| 3   | 706.090     | 33.80          | -6.83      | 26.97          | 46.00          | 19.03       | PK+  | H    |
| 4   | 829.280     | 34.10          | -5.34      | 28.76          | 46.00          | 17.24       | PK+  | H    |
| 5   | 904.940     | 33.26          | -4.05      | 29.21          | 46.00          | 16.79       | PK+  | H    |
| 6   | 989.330     | 31.21          | -2.55      | 28.66          | 53.90          | 25.24       | PK+  | H    |

|        |                   |
|--------|-------------------|
| Mode:  | 13.56 MHz         |
| Power: | Battery 3.7V      |
| TE:    | Berny             |
| Date   | 2025/02/21        |
| T/A/P  | 23.9°C/53%/101Kpa |



### Critical\_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1   | 385.020     | 32.13          | -14.33     | 17.80          | 46.00          | 28.20       | PK+  | V    |
| 2   | 465.530     | 33.49          | -13.17     | 20.32          | 46.00          | 25.68       | PK+  | V    |
| 3   | 535.370     | 33.97          | -10.2      | 23.77          | 46.00          | 22.23       | PK+  | V    |
| 4   | 623.640     | 33.83          | -8.87      | 24.96          | 46.00          | 21.04       | PK+  | V    |
| 5   | 838.010     | 33.97          | -5.24      | 28.73          | 46.00          | 17.27       | PK+  | V    |
| 6   | 937.920     | 30.13          | -2.13      | 28.00          | 46.00          | 18.00       | PK+  | V    |

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

## 9. ANTENNA REQUIREMENT

### REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### DESCRIPTION

Pass

## 10. AC POWER LINE CONDUCTED EMISSION

### LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

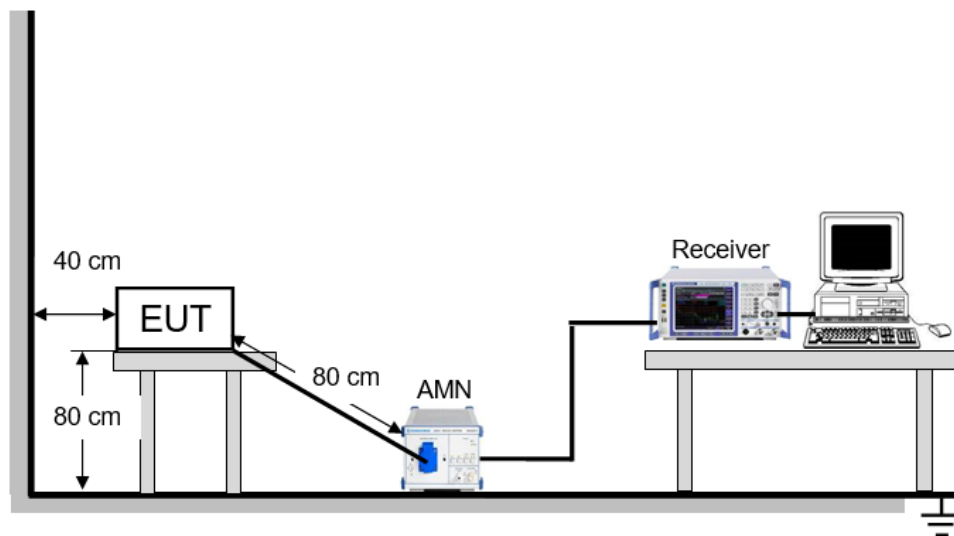
| FREQUENCY (MHz) | Quasi-peak | Average   |
|-----------------|------------|-----------|
| 0.15 -0.5       | 66 - 56 *  | 56 - 46 * |
| 0.50 -5.0       | 56.00      | 46.00     |
| 5.0 -30.0       | 60.00      | 50.00     |

### TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

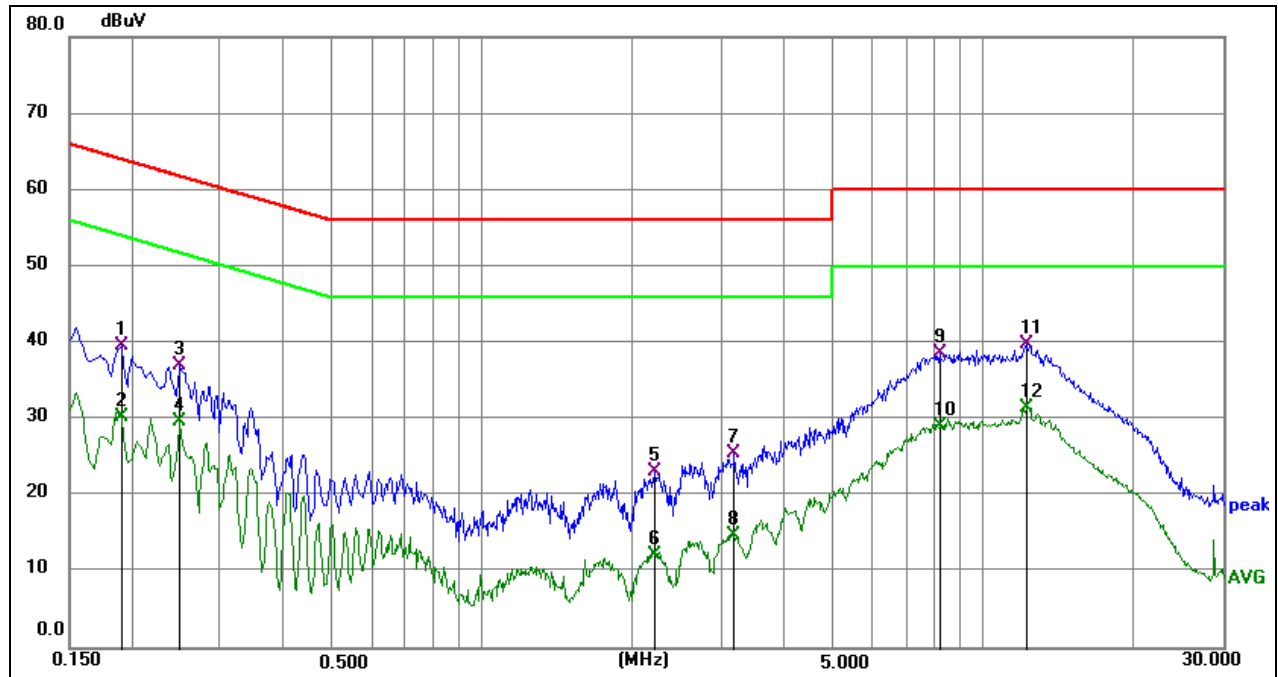
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

### TEST SETUP



### TEST ENVIRONMENT

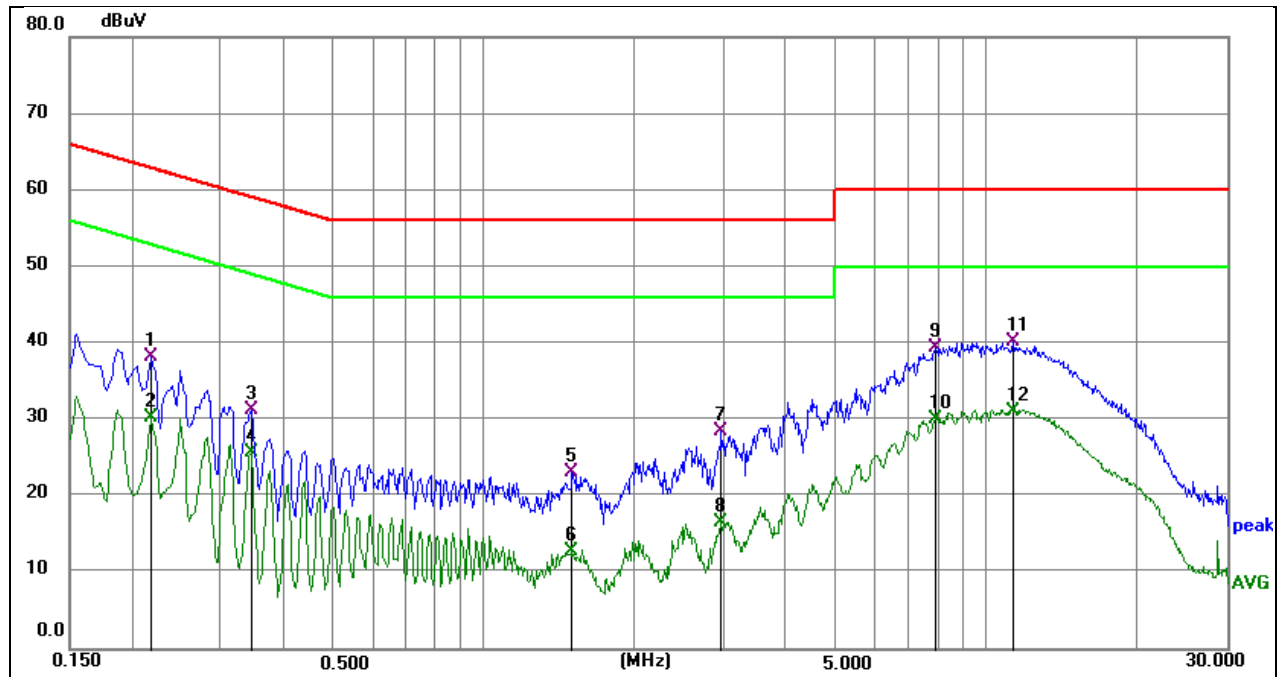
|                     |        |                   |     |
|---------------------|--------|-------------------|-----|
| Temperature         | 21.3°C | Relative Humidity | 47% |
| Atmosphere Pressure | 100kPa |                   |     |

**TEST RESULTS**

Phase: N

Mode: 13.56MHz

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1905             | 29.73             | 9.83            | 39.56            | 64.01           | -24.45         | QP     |
| 2   | 0.1905             | 20.44             | 9.83            | 30.27            | 54.01           | -23.74         | AVG    |
| 3   | 0.2490             | 27.21             | 9.79            | 37.00            | 61.79           | -24.79         | QP     |
| 4   | 0.2490             | 19.85             | 9.79            | 29.64            | 51.79           | -22.15         | AVG    |
| 5   | 2.2110             | 13.41             | 9.75            | 23.16            | 56.00           | -32.84         | QP     |
| 6   | 2.2110             | 2.37              | 9.75            | 12.12            | 46.00           | -33.88         | AVG    |
| 7   | 3.1740             | 15.70             | 9.81            | 25.51            | 56.00           | -30.49         | QP     |
| 8   | 3.1740             | 5.03              | 9.81            | 14.84            | 46.00           | -31.16         | AVG    |
| 9   | 8.1780             | 28.55             | 9.98            | 38.53            | 60.00           | -21.47         | QP     |
| 10  | 8.1780             | 19.04             | 9.98            | 29.02            | 50.00           | -20.98         | AVG    |
| 11  | 12.1650            | 29.79             | 9.97            | 39.76            | 60.00           | -20.24         | QP     |
| 12  | 12.1650            | 21.59             | 9.97            | 31.56            | 50.00           | -18.44         | AVG    |



Phase: L1

Mode: 13.56MHz

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.2175             | 28.41             | 9.72            | 38.13            | 62.91           | -24.78         | QP     |
| 2   | 0.2175             | 20.55             | 9.72            | 30.27            | 52.91           | -22.64         | AVG    |
| 3   | 0.3435             | 21.54             | 9.77            | 31.31            | 59.12           | -27.81         | QP     |
| 4   | 0.3435             | 16.03             | 9.77            | 25.80            | 49.12           | -23.32         | AVG    |
| 5   | 1.5000             | 13.26             | 9.84            | 23.10            | 56.00           | -32.90         | QP     |
| 6   | 1.5000             | 2.96              | 9.84            | 12.80            | 46.00           | -33.20         | AVG    |
| 7   | 2.9760             | 18.51             | 9.90            | 28.41            | 56.00           | -27.59         | QP     |
| 8   | 2.9760             | 6.63              | 9.90            | 16.53            | 46.00           | -29.47         | AVG    |
| 9   | 7.8945             | 29.60             | 9.88            | 39.48            | 60.00           | -20.52         | QP     |
| 10  | 7.8945             | 20.26             | 9.88            | 30.14            | 50.00           | -19.86         | AVG    |
| 11  | 11.2830            | 30.22             | 9.93            | 40.15            | 60.00           | -19.85         | QP     |
| 12  | 11.2830            | 21.14             | 9.93            | 31.07            | 50.00           | -18.93         | AVG    |

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

**END OF REPORT**