

## TEST REPORT

**Applicant:** NEXhome Smart Technologies Co . , Ltd.

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**Product Name:** Access Control

**FCC ID:** 2BPYV-M10K35P

**Standard(s):** 47 CFR Part 15, Subpart C  
ANSI C63.10-2020

**Report Number:** 2602R47906E-RF-00C

**Report Date:** 2026/4/2

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2602R47906E-RF-00C | Original Report         | 2026/4/2         |

## 1. GENERAL INFORMATION

### 1.1 General Description of Equipment under Test

|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>EUT Name:</b>            | Access Control                         |
| <b>EUT Model:</b>           | DH-K35 Pro                             |
| <b>Operation Frequency:</b> | 125kHz                                 |
| <b>Modulation Type:</b>     | ASK                                    |
| <b>Rated Input Voltage:</b> | DC 12V from Adapter or DC 48V from POE |
| <b>Serial Number:</b>       | 3IAZ-2                                 |
| <b>EUT Received Date:</b>   | 2026/3/12                              |
| <b>EUT Received Status:</b> | Good                                   |

### 1.2 Accessory Information

| Accessory Description | Manufacturer | Model | Parameters |
|-----------------------|--------------|-------|------------|
| /                     | /            | /     | /          |

### 1.3 Antenna Information Detail ▲

| Antenna Type                                                                                                                                                     | input impedance (Ohm) | Frequency Range | Antenna Gain |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------------|
| Loop                                                                                                                                                             | Unknown               | 125kHz          | Unknown      |
| <b>The design of compliance with §15.203:</b>                                                                                                                    |                       |                 |              |
| <input checked="" type="checkbox"/> Unit uses a permanently attached antenna.                                                                                    |                       |                 |              |
| <input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.                                                                                |                       |                 |              |
| <input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. |                       |                 |              |

### 1.4 Equipment Modifications

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

2. SUMMARY OF TEST RESULTS

| FCC Rules                                                                                                                                                           | Description of Test         | Result    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| FCC§15.207 (a)                                                                                                                                                      | AC Line Conducted Emissions | Compliant |
| §15.209; §15.205                                                                                                                                                    | Radiated Spurious Emissions | Compliant |
| §15.215(c)                                                                                                                                                          | 20 dB Bandwidth             | Compliant |
| FCC§15.203                                                                                                                                                          | Antenna Requirement         | Compliant |
| Note: Per 15B report, Powered by DC12V adapter was the worst case for AC Line Conducted Emissions and Radiated Spurious Emission, so only performed it this report. |                             |           |

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. Test performed with the typical card and without Card, the worst was performed with the typical card.

#### 3.2 EUT Exercise Software

No software was used in test.

#### 3.3 Support Equipment List and Details

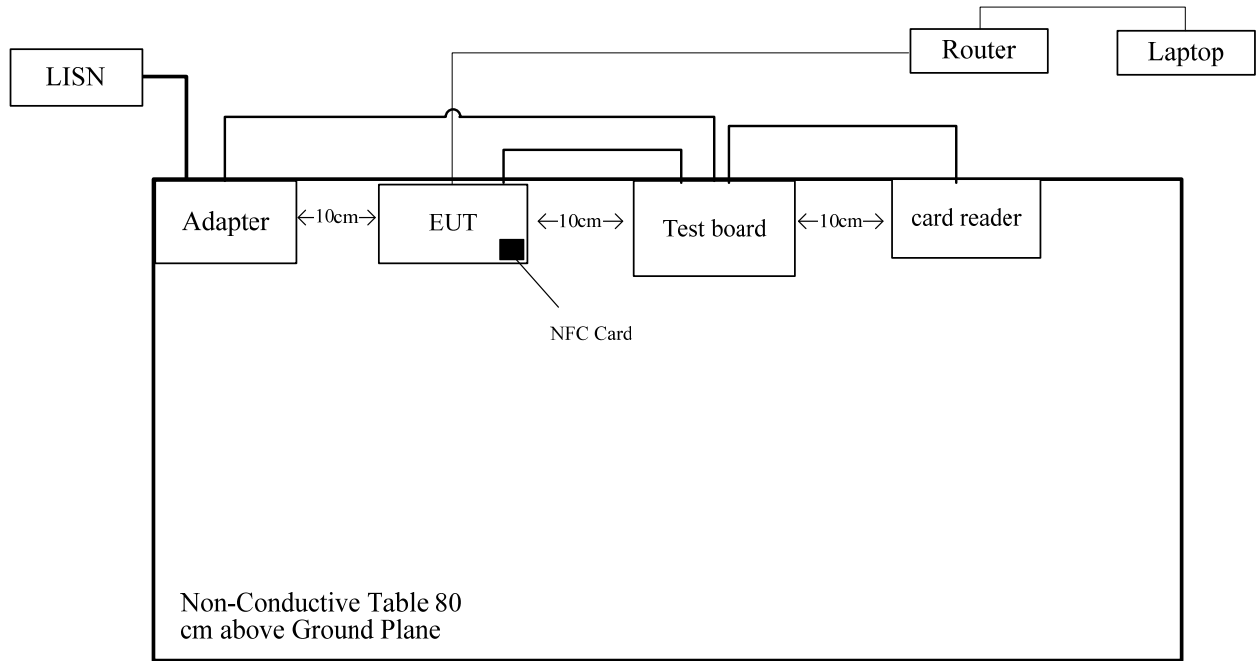
| Manufacturer                          | Description | Model    | Serial Number  |
|---------------------------------------|-------------|----------|----------------|
| CWT                                   | Adapter     | 2ABB018F | /              |
| NEXhome Smart Technologies Co. , Ltd. | Test board  | unknown  | unknown        |
| DELL                                  | Laptop      | E6410    | GMLGPM1        |
| TOTO Link                             | Router      | LR1200   | 190924004S1    |
| /                                     | NFC Card    | EINOLDA  | EMZBNC22081501 |
| unknown                               | card reader | unknown  | unknown        |

#### 3.4 Support Cable List and Details

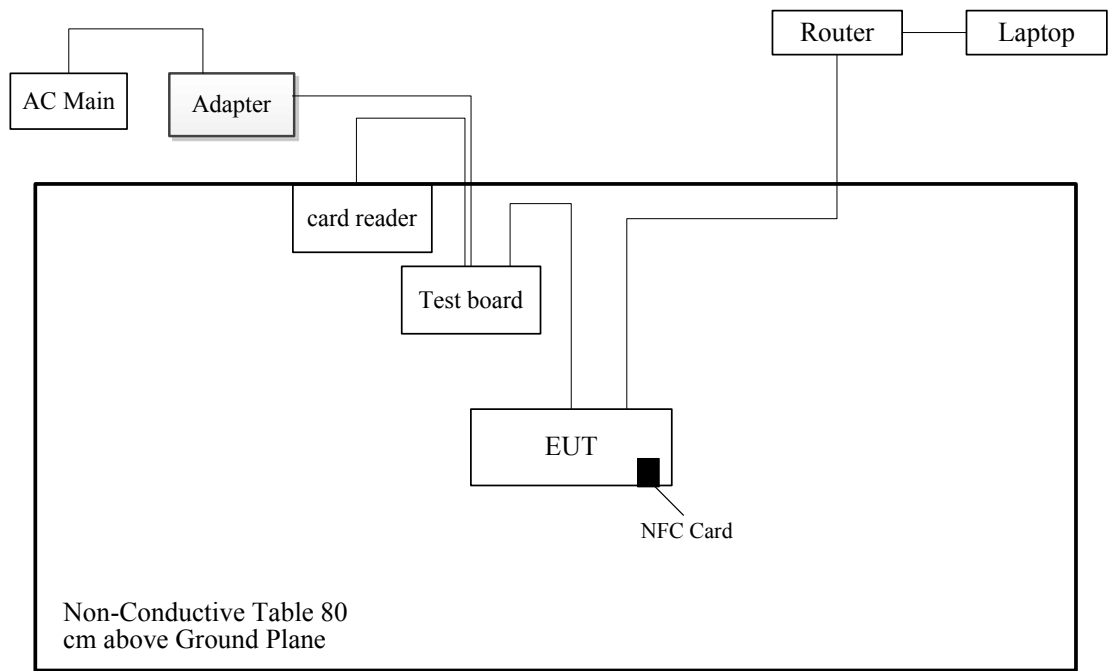
| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port  | To          |
|-------------------|-----------------|--------------|------------|------------|-------------|
| DC Cable          | no              | no           | 1.5        | Adapter    | Test board  |
| 8Pin Cable        | no              | no           | 0.2        | Test board | EUT         |
| RJ45 Cable        | no              | no           | 1.5        | Laptop     | Router      |
| RJ45 Cable        | no              | no           | 1.5        | Router     | EUT         |
| Signal Cable      | no              | no           | 1.0        | Test board | card reader |

3.5 Block Diagram of Test Setup

AC Line Conducted Emissions:



Radiated Spurious Emissions:



### 3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

### 3.7 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter                         | Measurement Uncertainty                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Occupied Channel Bandwidth        | ±5 %                                                                                                                                   |
| Unwanted Emissions, radiated      | 9kHz~30MHz: 3.06dB, 30MHz~1GHz: 6.13 dB, 1GHz~6GHz: 4.79 dB,<br>6GHz~18GHz: 4.63 dB, 18GHz~26.5GHz: 4.79 dB,<br>26.5GHz~40GHz: 4.63 dB |
| Temperature                       | ±1 °C                                                                                                                                  |
| Humidity                          | ±5%                                                                                                                                    |
| DC and low frequency voltages     | ±0.4%                                                                                                                                  |
| Duty Cycle                        | 1%                                                                                                                                     |
| AC Power Lines Conducted Emission | 2.83 dB (150 kHz to 30 MHz)                                                                                                            |

## 4. REQUIREMENTS AND TEST RESULTS

### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

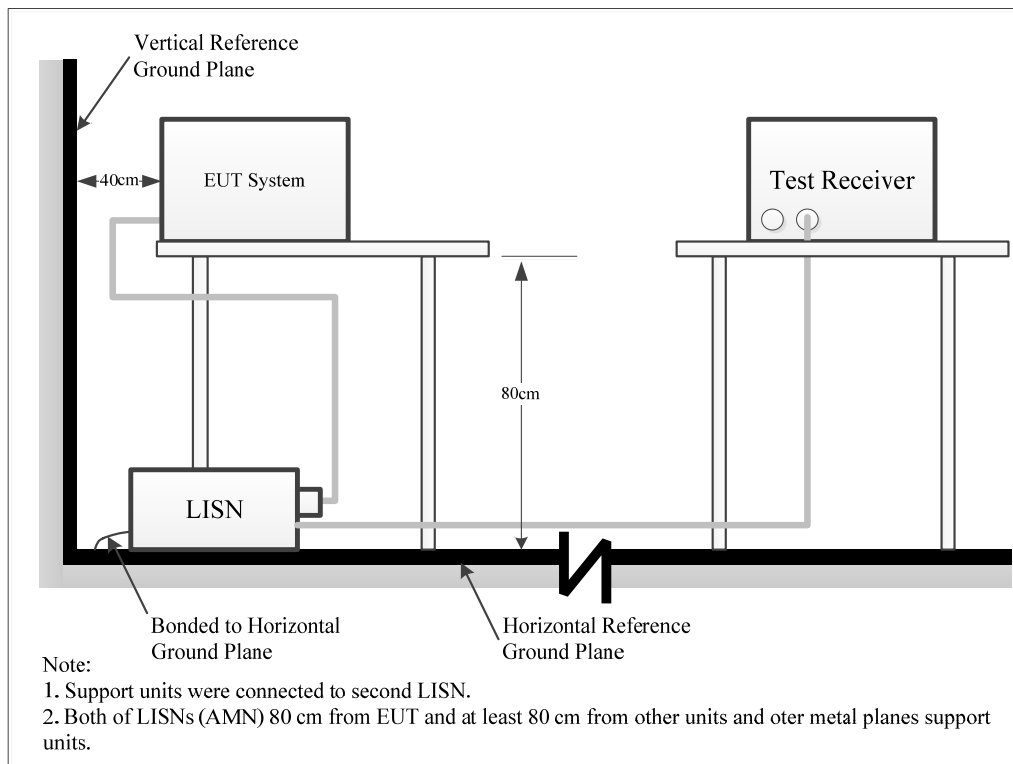
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

#### 4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

#### 4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

#### 4.1.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter’s fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter’s fundamental emission band.

#### 4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Data

|                |              |              |              |
|----------------|--------------|--------------|--------------|
| Serial Number: | 3IAZ-2       | Test Date:   | 2026/03/23   |
| Test Site:     | CE           | Test Mode:   | Transmitting |
| Tester:        | Leesin Xiang | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 24.2 | Relative Humidity:<br>(%) | 62 | ATM Pressure:<br>(kPa) | 100.9 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

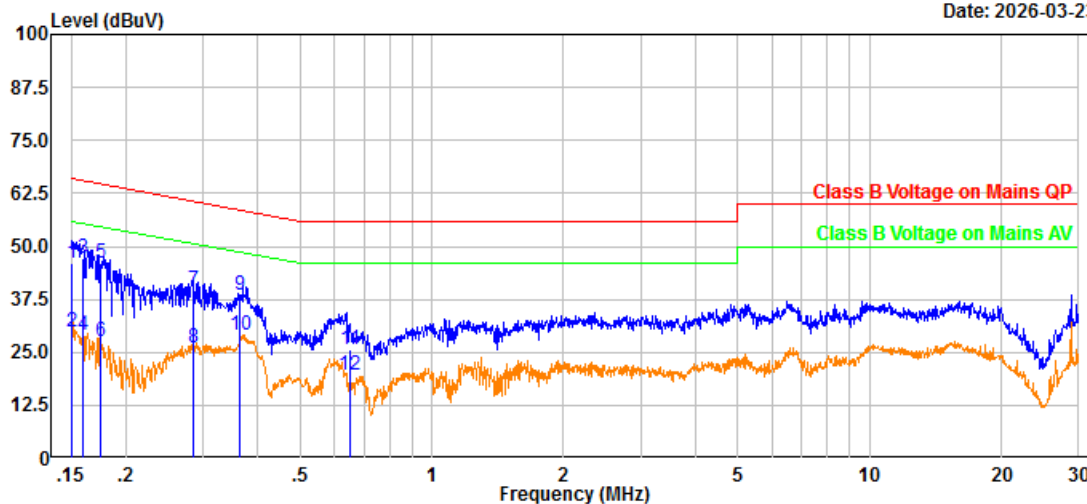
| Manufacturer | Description       | Model  | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|--------|---------------|------------------|----------------------|
| R&S          | LISN              | ENV216 | 101614        | 2025/6/25        | 2026/6/24            |
| Unknown      | Coaxial Cable     | RG 142 | C-0200-05     | 2025/5/6         | 2026/5/5             |
| R&S          | EMI Test Receiver | ESCI   | 100224        | 2025/6/25        | 2026/6/24            |
| Audix        | Test Software     | E3     | 191218 V9     | N/A              | N/A                  |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: 2602R47906E-RF  
Port: Line  
Test Mode: Transmitting  
IF B/W 9kHz PK/AV

Serial No.: 3IAZ-2  
Tester: Leesin Xiang  
Note:

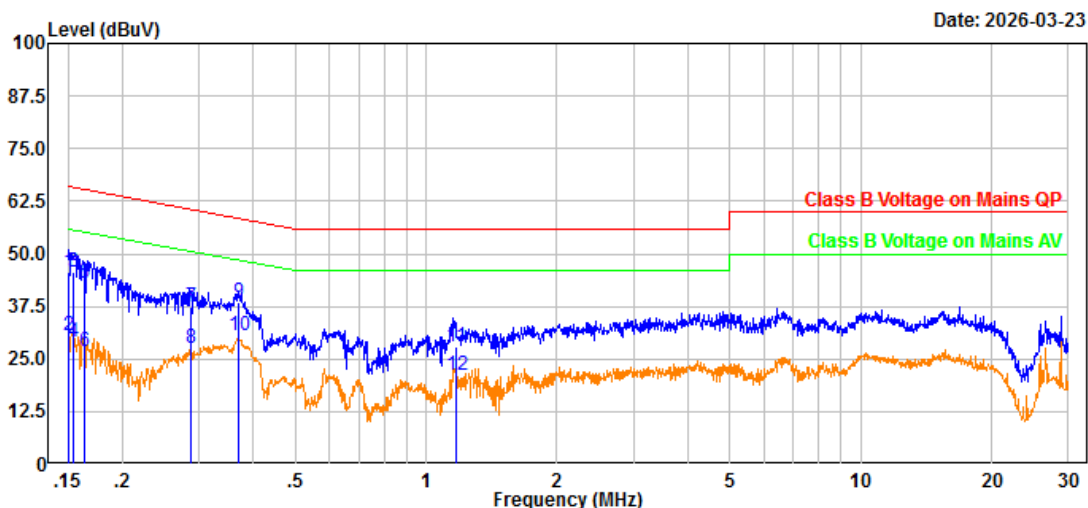
Date: 2026-03-23



| No. | Frequency (MHz) | Reading (dBμV) | Factor (dB) | Result (dBμV) | Limit (dBμV) | Margin (dB) | Measurement |
|-----|-----------------|----------------|-------------|---------------|--------------|-------------|-------------|
| 1   | 0.150           | 34.99          | 11.20       | 46.19         | 65.98        | 19.79       | QP          |
| 2   | 0.150           | 18.66          | 11.20       | 29.86         | 55.98        | 26.12       | Average     |
| 3   | 0.159           | 36.00          | 11.13       | 47.13         | 65.51        | 18.38       | QP          |
| 4   | 0.159           | 17.90          | 11.13       | 29.03         | 55.51        | 26.48       | Average     |
| 5   | 0.175           | 35.06          | 11.00       | 46.06         | 64.73        | 18.67       | QP          |
| 6   | 0.175           | 16.41          | 11.00       | 27.41         | 54.73        | 27.32       | Average     |
| 7   | 0.285           | 28.78          | 10.74       | 39.52         | 60.68        | 21.16       | QP          |
| 8   | 0.285           | 15.26          | 10.74       | 26.00         | 50.68        | 24.68       | Average     |
| 9   | 0.365           | 27.62          | 10.70       | 38.32         | 58.62        | 20.30       | QP          |
| 10  | 0.365           | 18.21          | 10.70       | 28.91         | 48.62        | 19.71       | Average     |
| 11  | 0.648           | 15.31          | 10.46       | 25.77         | 56.00        | 30.23       | QP          |
| 12  | 0.648           | 9.22           | 10.46       | 19.68         | 46.00        | 26.32       | Average     |

Project No.: 2602R47906E-RF  
Port: neutral  
Test Mode: Transmitting  
IF B/W 9kHz PK/AV

Serial No.: 3IAZ-2  
Tester: Leesin Xiang  
Note:



| No.   | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB) | Result<br>(dBμV) | Limit<br>(dBμV) | Margin<br>(dB) | Measurement |
|-------|--------------------|-------------------|----------------|------------------|-----------------|----------------|-------------|
| <hr/> |                    |                   |                |                  |                 |                |             |
| 1     | 0.151              | 34.93             | 10.70          | 45.63            | 65.95           | 20.32          | QP          |
| 2     | 0.151              | 19.74             | 10.70          | 30.44            | 55.95           | 25.51          | Average     |
| 3     | 0.155              | 34.83             | 10.72          | 45.55            | 65.73           | 20.18          | QP          |
| 4     | 0.155              | 18.26             | 10.72          | 28.98            | 55.73           | 26.75          | Average     |
| 5     | 0.164              | 32.20             | 10.76          | 42.96            | 65.26           | 22.30          | QP          |
| 6     | 0.164              | 15.99             | 10.76          | 26.75            | 55.26           | 28.51          | Average     |
| 7     | 0.287              | 26.55             | 10.78          | 37.33            | 60.60           | 23.27          | QP          |
| 8     | 0.287              | 16.59             | 10.78          | 27.37            | 50.60           | 23.23          | Average     |
| 9     | 0.370              | 27.79             | 10.68          | 38.47            | 58.50           | 20.03          | QP          |
| 10    | 0.370              | 19.89             | 10.68          | 30.57            | 48.50           | 17.93          | Average     |
| 11    | 1.173              | 17.05             | 10.96          | 28.01            | 56.00           | 27.99          | QP          |
| 12    | 1.173              | 10.33             | 10.96          | 21.29            | 46.00           | 24.71          | Average     |

## 4.2 Radiated Spurious Emissions

### 4.2.1 Applicable Standard

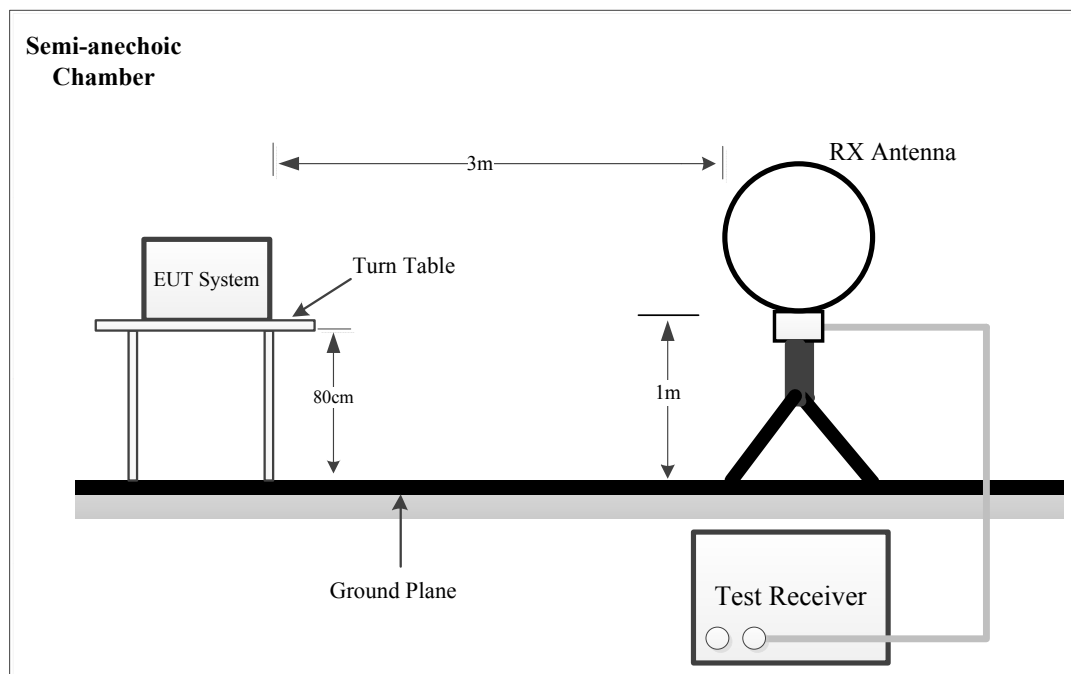
FCC Part 15.209

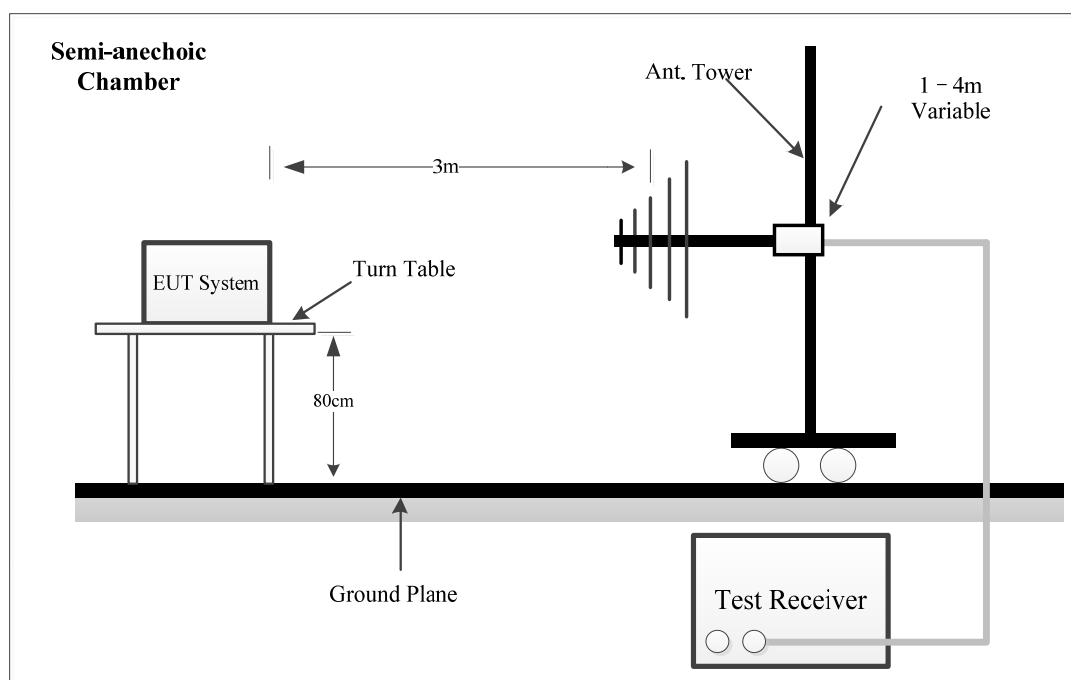
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | $2400/F(\text{kHz})$              | 300                           |
| 0.490-1.705     | $24000/F(\text{kHz})$             | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100 **                            | 3                             |
| 88-216          | 150 **                            | 3                             |
| 216-960         | 200 **                            | 3                             |
| Above 960       | 500                               | 3                             |

### 4.2.2 EUT Setup

9kHz~30MHz:



**30MHz~1GHz:**

The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2020.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | 200 Hz  | 1 kHz     | 200 Hz  | QP/AV       |
| 150 kHz – 30 MHz  | 9 kHz   | 30 kHz    | 9 kHz   | QP/AV       |
| 30 MHz – 1000 MHz | 120 kHz | 500 kHz   | /       | PK          |
|                   | /       | /         | 120 kHz | QP          |

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP measurement

#### 4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

#### 4.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.2.6 Test Data

|                |           |              |              |
|----------------|-----------|--------------|--------------|
| Serial Number: | 3IAZ-2    | Test Date:   | 2026/3/25    |
| Test Site:     | Chamber A | Test Mode:   | Transmitting |
| Tester:        | Alan Xie  | Test Result: | Pass         |

| Environmental Conditions: |    |                           |    |                           |       |
|---------------------------|----|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C)      | 25 | Relative Humidity:<br>(%) | 44 | ATM<br>Pressure:<br>(kPa) | 100.7 |

Test Equipment List and Details:

| Manufacturer   | Description          | Model     | Serial Number | Calibration Date | Calibration Due Date |
|----------------|----------------------|-----------|---------------|------------------|----------------------|
| EMCO           | Passive Loop Antenna | 6512      | 9706-1206     | 2023/10/25       | 2026/10/24           |
| Sunol Sciences | Hybrid Antenna       | JB3       | A060611-2     | 2024/4/16        | 2027/4/15            |
| Narda          | Coaxial Attenuator   | 757C-6dB  | 34010         | 2024/4/16        | 2027/4/15            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0075-01     | 2025/7/1         | 2026/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0400-01     | 2025/7/1         | 2026/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-1400-01     | 2025/7/1         | 2026/6/30            |
| Sonoma         | Amplifier            | 310N      | 372193        | 2025/7/30        | 2026/7/29            |
| R&S            | EMI Test Receiver    | ESCI      | 100035        | 2025/6/25        | 2026/6/24            |
| Audix          | Test Software        | E3        | 191218 V9     | N/A              | N/A                  |

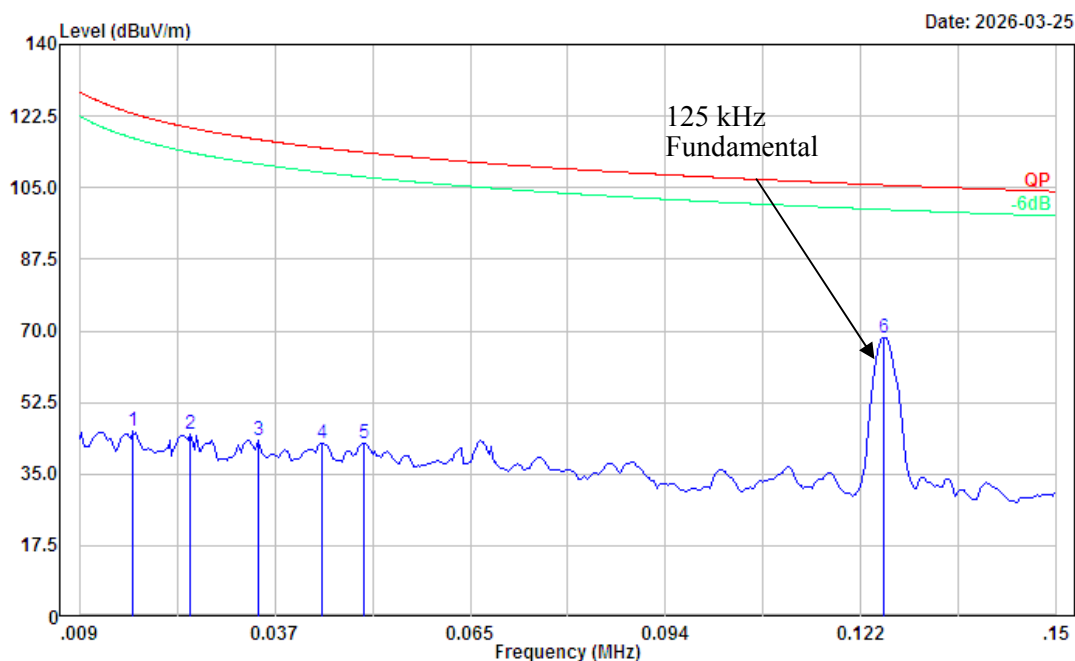
\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:  
Please refer to the below plots.

**1) 9kHz~30MHz  
Parallel**

Project No.: 2602R47906E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note: Peak:RBW:200Hz VBW:1kHz

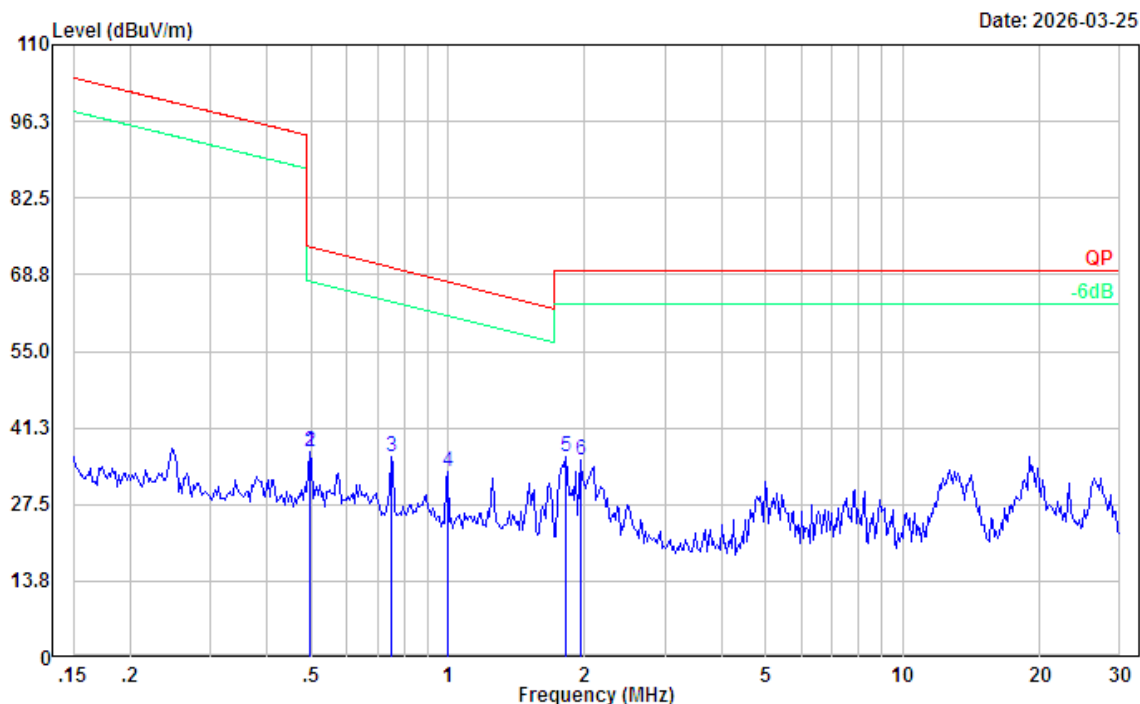
Serial No.: 3IAZ-2  
Tester: Alan Xie



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.017              | -4.08             | 49.74            | 45.66              | 123.12            | 77.46          | Peak        |
| 2   | 0.025              | -3.16             | 47.79            | 44.63              | 119.65            | 75.02          | Peak        |
| 3   | 0.035              | -2.59             | 45.81            | 43.22              | 116.76            | 73.54          | Peak        |
| 4   | 0.044              | -1.65             | 44.28            | 42.63              | 114.73            | 72.10          | Peak        |
| 5   | 0.050              | -0.76             | 43.37            | 42.61              | 113.60            | 70.99          | Peak        |
| 6   | 0.125              | 34.94             | 33.52            | 68.46              | 105.66            | 37.20          | Peak        |

Project No.: 2602R47906E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
Note: Peak:RBW:9kHz VBW:30kHz

Serial No.: 3IAZ-2  
Tester: Alan Xie



| No.   | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-------|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| <hr/> |                    |                   |                  |                    |                   |                |             |
| 1     | 0.498              | 14.30             | 22.62            | 36.92              | 73.65             | 36.73          | Peak        |
| 2     | 0.498              | 14.30             | 22.62            | 36.92              | 73.65             | 36.73          | Peak        |
| 3     | 0.748              | 15.92             | 20.14            | 36.06              | 70.04             | 33.98          | Peak        |
| 4     | 1.001              | 17.90             | 15.52            | 33.42              | 67.46             | 34.04          | Peak        |
| 5     | 1.810              | 24.07             | 11.87            | 35.94              | 69.54             | 33.60          | Peak        |
| 6     | 1.959              | 24.23             | 11.19            | 35.42              | 69.54             | 34.12          | Peak        |

Perpendicular

Project No.: 2602R47906E-RF

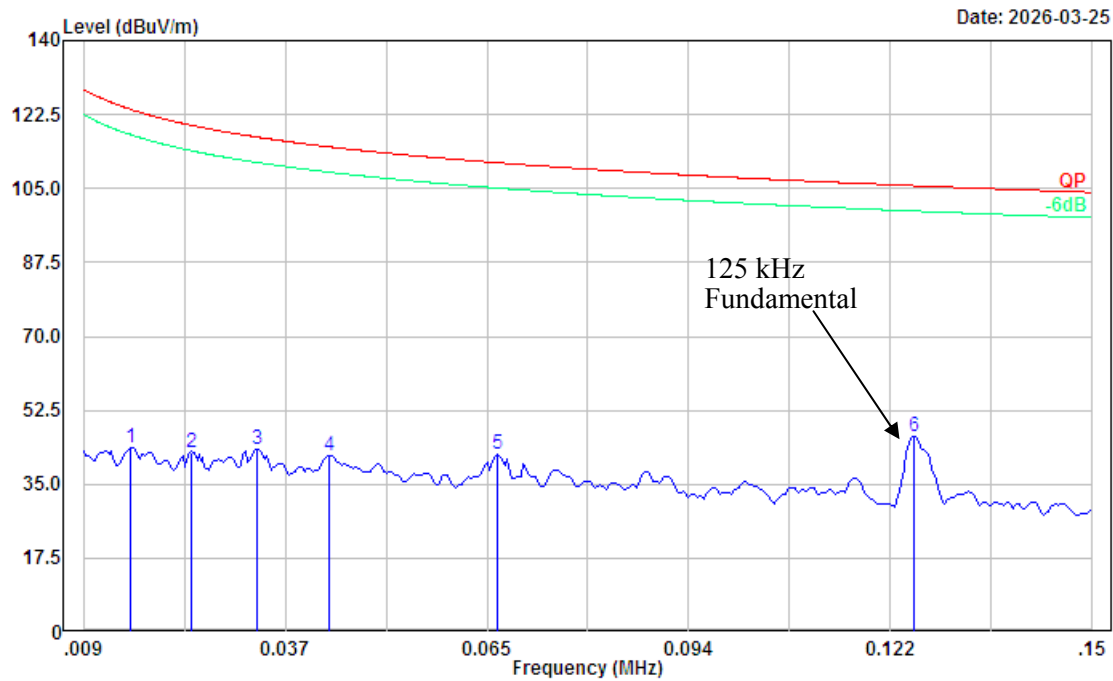
Serial No.: 3IAZ-2

Polarization: Perpendicular

Tester: Alan Xie

Test Mode: Transmitting

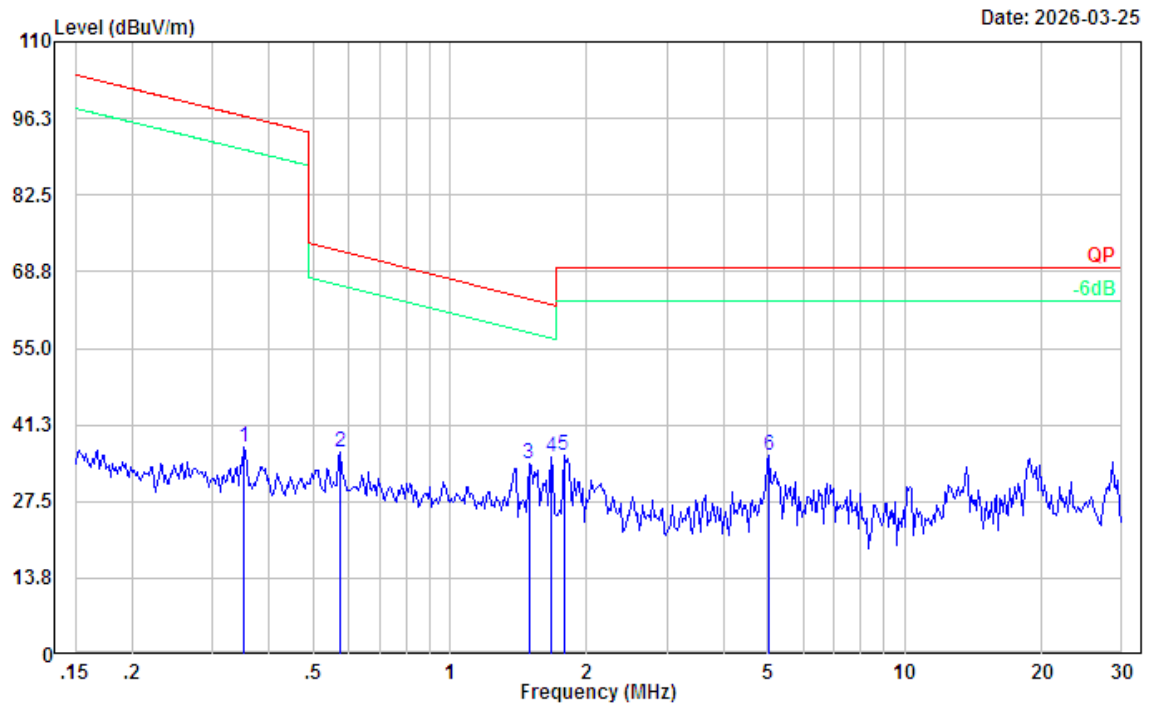
Note: Peak:RBW:200Hz VBW:1kHz



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.016              | -6.44             | 50.04            | 43.60              | 123.75            | 80.15          | Peak        |
| 2   | 0.024              | -5.33             | 48.01            | 42.68              | 119.99            | 77.31          | Peak        |
| 3   | 0.033              | -2.88             | 46.09            | 43.21              | 117.18            | 73.97          | Peak        |
| 4   | 0.043              | -2.59             | 44.38            | 41.79              | 114.87            | 73.08          | Peak        |
| 5   | 0.067              | 1.29              | 40.64            | 41.93              | 111.11            | 69.18          | Peak        |
| 6   | 0.125              | 12.87             | 33.52            | 46.39              | 105.66            | 59.27          | Peak        |

Project No.: 2602R47906E-RF  
Polarization: Perpendicular  
Test Mode: Transmitting  
Note: Peak:RBW:9kHz VBW:30kHz

Serial No.: 3IAZ-2  
Tester: Alan Xie



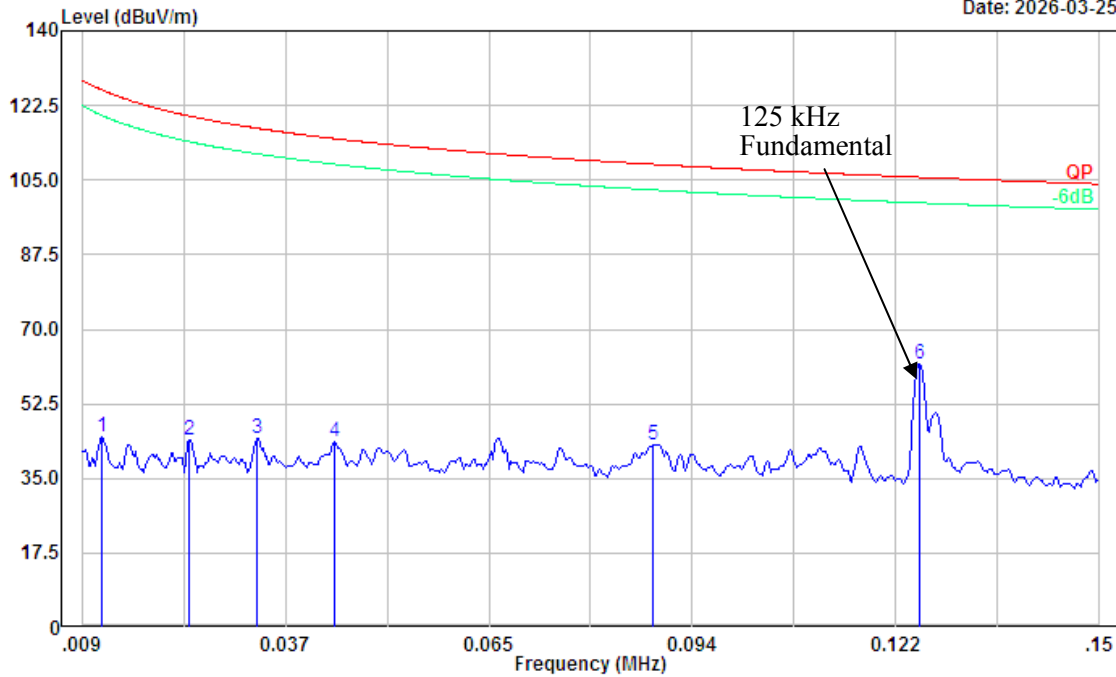
| No. | Frequency (MHz) | Reading (dBμV) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 0.353           | 14.34          | 23.00         | 37.34           | 96.64          | 59.30       | Peak        |
| 2   | 0.574           | 14.29          | 22.03         | 36.32           | 72.39          | 36.07       | Peak        |
| 3   | 1.490           | 20.83          | 13.31         | 34.14           | 63.94          | 29.80       | Peak        |
| 4   | 1.671           | 23.10          | 12.50         | 35.60           | 62.92          | 27.32       | Peak        |
| 5   | 1.778           | 23.80          | 12.01         | 35.81           | 69.54          | 33.73       | Peak        |
| 6   | 5.040           | 30.12          | 5.56          | 35.68           | 69.54          | 33.86       | Peak        |

# Ground Parallel

Project No.: 2602R47906E-RF  
Polarization: Ground parallel  
Test Mode: Transmitting  
Note: Peak:RBW:200Hz VBW:1kHz

Serial No.: 3IAZ-2  
Tester: Alan Xie

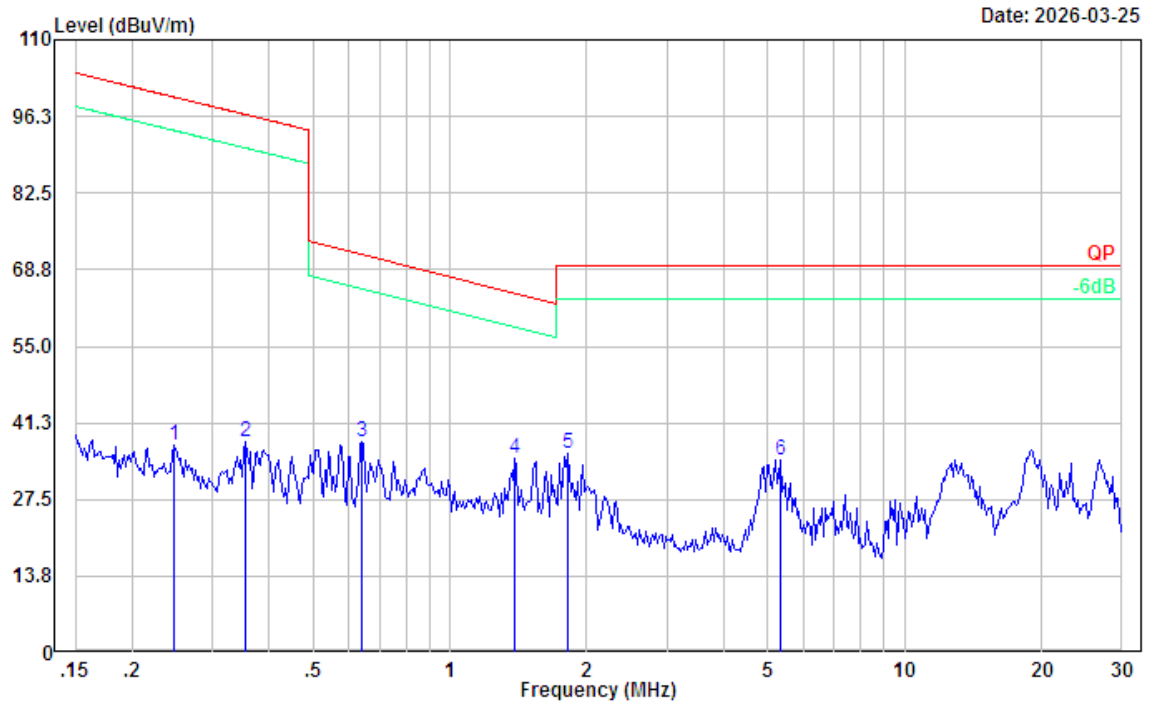
Date: 2026-03-25



| No. | Frequency (MHz) | Reading (dBμV) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Measurement |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|-------------|
| 1   | 0.012           | -6.30          | 50.99         | 44.69           | 126.15         | 81.46       | Peak        |
| 2   | 0.024           | -4.06          | 48.06         | 44.00           | 120.07         | 76.07       | Peak        |
| 3   | 0.033           | -1.83          | 46.09         | 44.26           | 117.18         | 72.92       | Peak        |
| 4   | 0.044           | -0.81          | 44.28         | 43.47           | 114.73         | 71.26       | Peak        |
| 5   | 0.088           | 6.23           | 36.78         | 43.01           | 108.69         | 65.68       | Peak        |
| 6   | 0.125           | 28.45          | 33.52         | 61.97           | 105.66         | 43.69       | Peak        |

Project No.: 2602R47906E-RF  
Polarization: Ground parallel  
Test Mode: Transmitting  
Note: Peak:RBW:9kHz VBW:30kHz

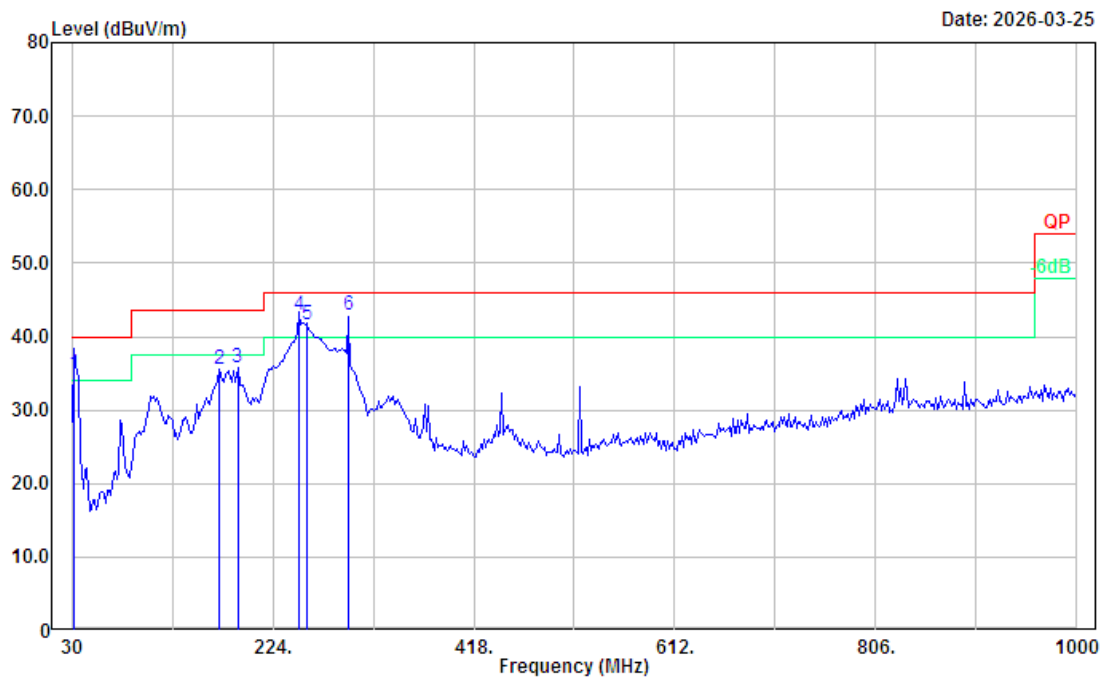
Serial No.: 3IAZ-2  
Tester: Alan Xie



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 0.248              | 11.01             | 26.29            | 37.30              | 99.71             | 62.41          | Peak        |
| 2   | 0.356              | 14.79             | 22.98            | 37.77              | 96.57             | 58.80          | Peak        |
| 3   | 0.638              | 16.62             | 21.35            | 37.97              | 71.45             | 33.48          | Peak        |
| 4   | 1.388              | 21.21             | 13.77            | 34.98              | 64.56             | 29.58          | Peak        |
| 5   | 1.810              | 23.93             | 11.87            | 35.80              | 69.54             | 33.74          | Peak        |
| 6   | 5.314              | 29.13             | 5.35             | 34.48              | 69.54             | 35.06          | Peak        |

## 2) 30MHz-1GHz

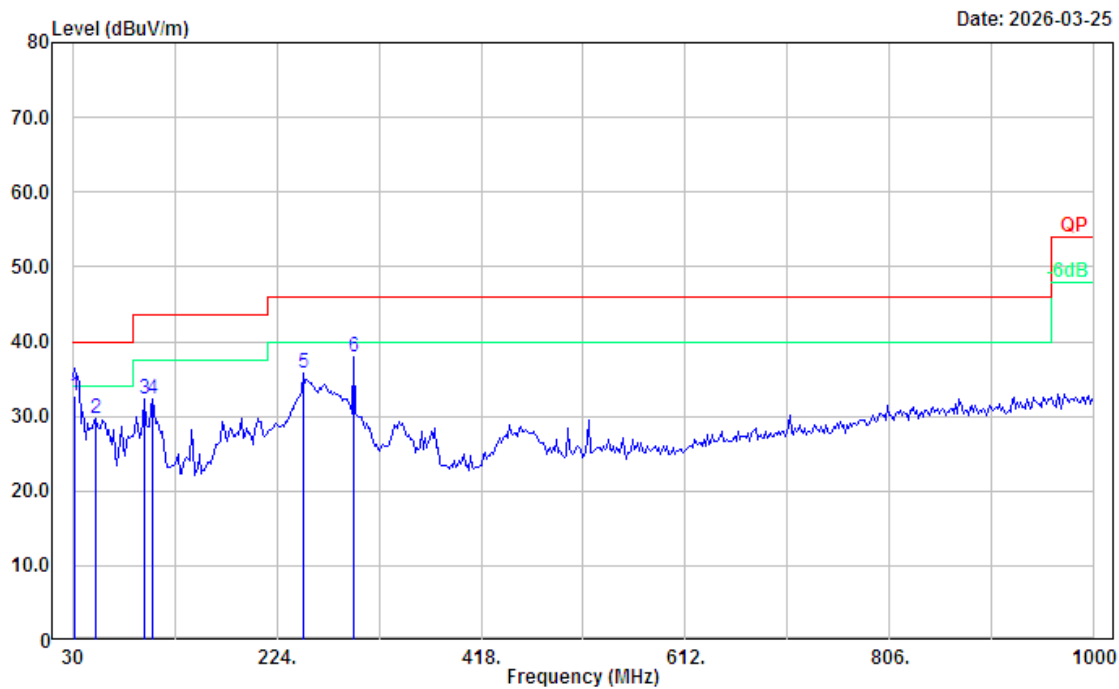
Project No.: 2602R47906E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: Peak:RBW:120kHz VBW:500kHz  
Serial No.: 3IAZ-2  
Tester: Alan Xie



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 31.62              | 39.86             | -4.90            | 34.96              | 40.00             | 5.04           | QP          |
| 2   | 172.27             | 47.22             | -11.58           | 35.64              | 43.50             | 7.86           | Peak        |
| 3   | 190.05             | 47.66             | -11.91           | 35.75              | 43.50             | 7.75           | Peak        |
| 4   | 249.87             | 54.19             | -11.26           | 42.93              | 46.00             | 3.07           | QP          |
| 5   | 256.33             | 52.21             | -10.53           | 41.68              | 46.00             | 4.32           | QP          |
| 6   | 296.75             | 51.98             | -9.00            | 42.98              | 46.00             | 3.02           | QP          |

Project No.: 2602R47906E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: Peak:RBW:120kHz VBW:500kHz  
:

Serial No.: 3IAZ-2  
Tester: Alan Xie



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Measurement |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|-------------|
| 1   | 31.62              | 37.64             | -4.90            | 32.74              | 40.00             | 7.26           | QP          |
| 2   | 52.63              | 46.91             | -17.17           | 29.74              | 40.00             | 10.26          | Peak        |
| 3   | 97.90              | 46.52             | -14.20           | 32.32              | 43.50             | 11.18          | Peak        |
| 4   | 105.98             | 44.21             | -11.93           | 32.28              | 43.50             | 11.22          | Peak        |
| 5   | 249.87             | 46.98             | -11.26           | 35.72              | 46.00             | 10.28          | Peak        |
| 6   | 296.75             | 46.96             | -9.00            | 37.96              | 46.00             | 8.04           | Peak        |

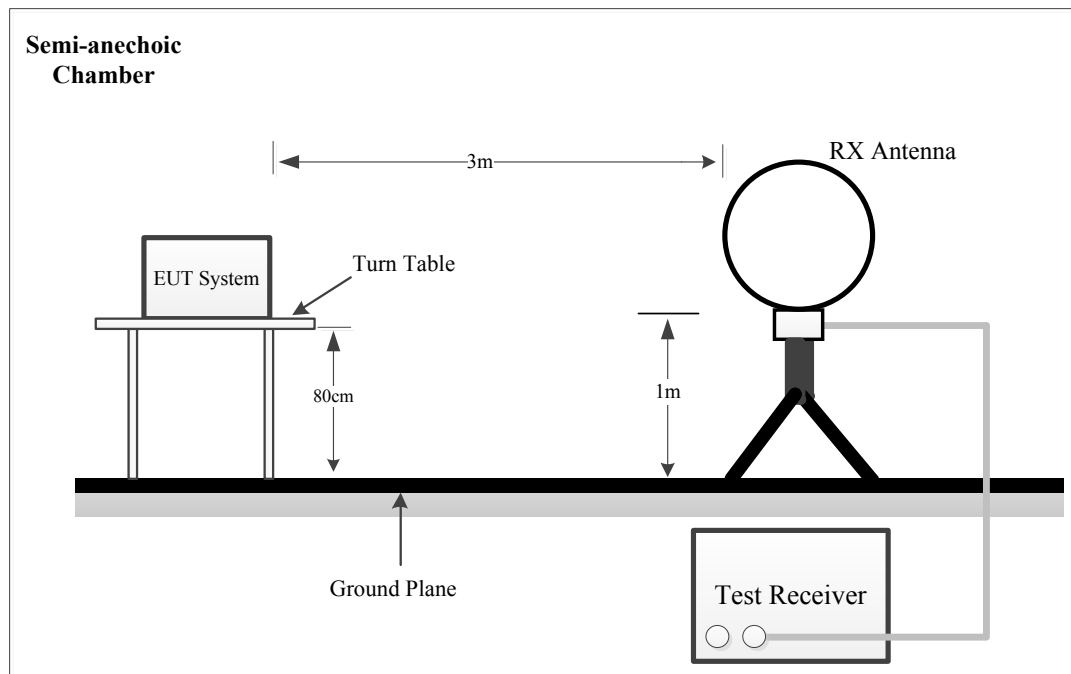
### 4.3 20 dB Emission Bandwidth

#### 4.3.1 Applicable Standard

FCC §15.215

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. 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.

#### 4.3.2 EUT Setup



#### 4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using [(reference value) – xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### 4.3.4 Test Data

|                |           |              |              |
|----------------|-----------|--------------|--------------|
| Serial Number: | 3IAZ-2    | Test Date:   | 2026/3/25    |
| Test Site:     | Chamber A | Test Mode:   | Transmitting |
| Tester:        | Alan Xie  | Test Result: | Pass         |

#### Environmental Conditions:

|                      |    |                           |    |                           |       |
|----------------------|----|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C) | 25 | Relative Humidity:<br>(%) | 44 | ATM<br>Pressure:<br>(kPa) | 100.7 |
|----------------------|----|---------------------------|----|---------------------------|-------|

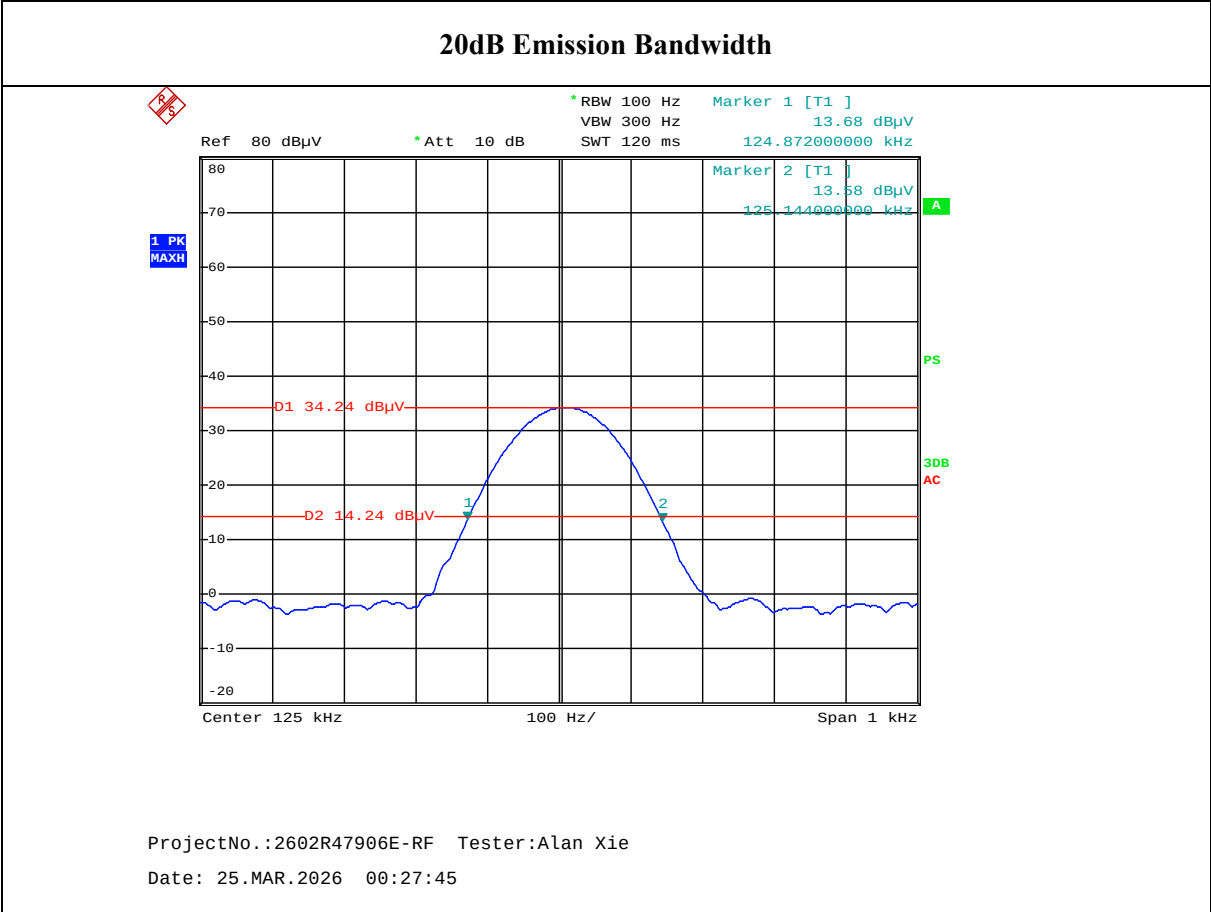
#### Test Equipment List and Details:

| Manufacturer | Description          | Model     | Serial Number | Calibration Date | Calibration Due Date |
|--------------|----------------------|-----------|---------------|------------------|----------------------|
| EMCO         | Passive Loop Antenna | 6512      | 9706-1206     | 2023/10/25       | 2026/10/24           |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-0075-01     | 2025/7/1         | 2026/6/30            |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-0400-01     | 2025/7/1         | 2026/6/30            |
| Unknown      | Coaxial Cable        | C-NJNJ-50 | C-1400-01     | 2025/7/1         | 2026/6/30            |
| Sonoma       | Amplifier            | 310N      | 372193        | 2025/7/30        | 2026/7/29            |
| R&S          | EMI Test Receiver    | ESCI      | 100035        | 2025/6/25        | 2026/6/24            |

**\* Statement of Traceability:** Bay Area Compliance Laboratories Corp.(Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Test Frequency (kHz) | 20 dB Emission Bandwidth (kHz) |
|----------------------|--------------------------------|
| 125                  | 0.272                          |



## **4.5 Antenna Requirement**

### **4.5.1 Applicable Standard**

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **4.5.2 Judgment**

Please refer to the Antenna Information detail in Section 1.3.

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## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2602R47906E-RF-EXP EUT external photographs and 2602R47906E-RF-INP EUT internal photographs.

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## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2602R47906E-RF-00C-TSP test setup photographs.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***