

# TEST REPORT

Applicant Name: Shenzhen Saiku Electronic Co., Ltd.  
Address: 3F, Building C14, Fuyuan Industrial City, Jiuwei Community,  
Hangcheng Street, Shenzhen, China  
Report Number: 2601S55904E-RF-00  
FCC ID: 2A8DGA-X5

## Test Standard (s)

FCC PART 15.249

## Sample Description

Product Type: Pet Barrier Transmitter  
Model No.: X5  
Multiple Model(s) No.: N/A  
Trade Mark: N/A  
Date Received: 2026/04/30  
Issue Date: 2026/08/18

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

*Ga La Liu*

GaLa Liu  
RF Engineer

## Approved By:

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked \* is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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## Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China  
Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number     | Description of Revision | Date of Revision |
|-----------------|-------------------|-------------------------|------------------|
| 0               | 2601S55904E-RF-00 | Original Report         | 2026/08/18       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                          |                                            |
|--------------------------|--------------------------------------------|
| Frequency Range          | 915-916.4MHz                               |
| Maximum E-field strength | 93.95dBuV/m@3m                             |
| Modulation Technique     | FSK                                        |
| Voltage Range            | DC 3.7V from battery or DC 5V from adapter |
| Sample serial number     | 3L1R-1/3L1R-3 (Assigned by BACL, Shenzhen) |
| Sample/EUT Status        | Good condition                             |
| Adapter Information      | N/A                                        |
|                          |                                            |

### Objective

This test report is in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.215 and 15.249 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                            | Uncertainty                               |
|------------------------------------|----------------------------|-------------------------------------------|
| Occupied Channel Bandwidth         |                            | 52.29kHz(k=1.96, 95% level of confidence) |
| RF Frequency                       |                            | 81.235Hz(k=1.96, 95% level of confidence) |
| RF output power, conducted         |                            | 1.57dB(k=1.96, 95% level of confidence)   |
| Conducted Spurious Emission        |                            | 2.48dB(k=1.96, 95% level of confidence)   |
| AC Power Lines Conducted Emissions | 9kHz~150 kHz               | 3.46dB(k=2, 95% level of confidence)      |
|                                    | 150 kHz ~30MHz             | 3.72dB(k=2, 95% level of confidence)      |
| Radiated Emissions                 | 0.009MHz~30MHz             | 3.66dB(k=2, 95% level of confidence)      |
|                                    | 30MHz~1000MHz (Horizontal) | 5.10dB(k=2, 95% level of confidence)      |
|                                    | 30MHz~1000MHz (Vertical)   | 6.28dB(k=2, 95% level of confidence)      |
|                                    | 1GHz - 6GHz                | 6.18dB(k=2, 95% level of confidence)      |
|                                    | 6GHz - 18GHz               | 6.62dB(k=2, 95% level of confidence)      |
|                                    | 18GHz - 40GHz              | 6.66dB(k=2, 95% level of confidence)      |
| Temperature                        |                            | $\pm 0.4^{\circ}\text{C}$                 |
| Humidity                           |                            | $\pm 2\%$                                 |
| Supply voltages                    |                            | DC $\pm 0.4\%$ ; AC $\pm 1\%$             |

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

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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, test firm registration No.: 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing by manufacturer.

### Frequency Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 0       | 915.0           | 4       | 915.8           |
| 1       | 915.2           | 5       | 916.0           |
| 2       | 915.4           | 6       | 916.2           |
| 3       | 915.6           | 7       | 916.4           |

Note: sample 3L1R-1 was test channel 0, sample 3L1R-3 was test channel 7.

### EUT Exercise Software

No exercise software was used.

### Equipment Modifications

No modifications were made to the unit tested.

### Support Equipment List and Details

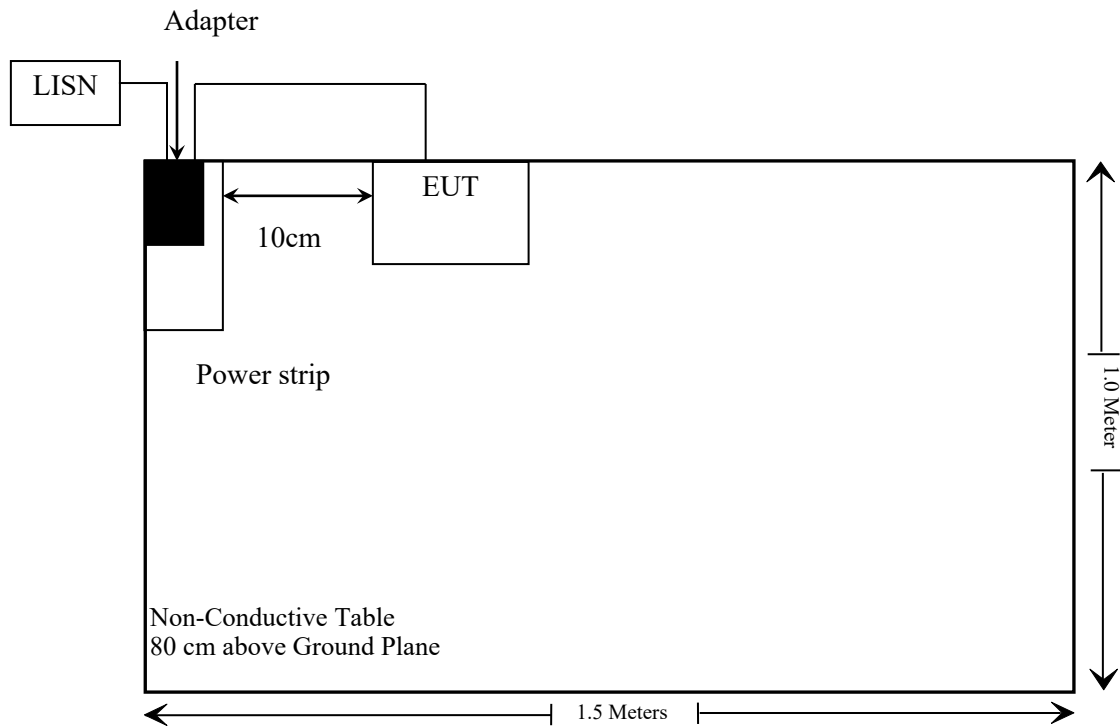
| Manufacturer | Description | Model       | Serial Number |
|--------------|-------------|-------------|---------------|
| Inol         | Adapter     | INJ01/24    | Unknown       |
| OUPU         | Power strip | PDU-OP1606K | 6971041358020 |

### Support Cable Descriptions

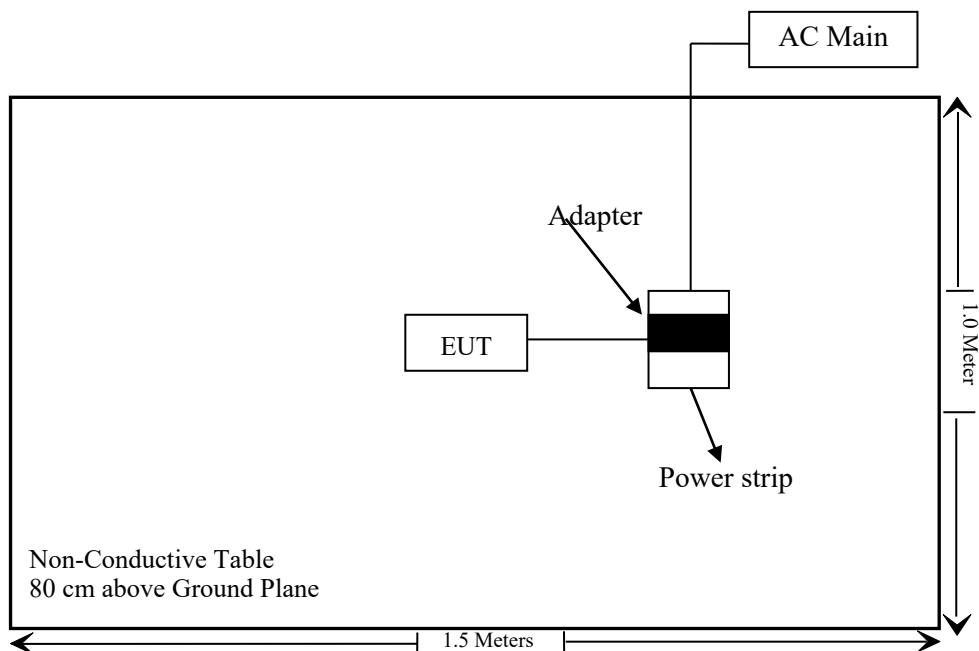
| Cable Description              | Length (m) | From/Port   | To           |
|--------------------------------|------------|-------------|--------------|
| Unshielded Detachable AC Cable | 1.0        | Adapter     | EUT          |
| Unshielded Un-Detachable Cable | 1.2        | Power strip | LISN/AC Main |

## Block Diagram of Test Setup

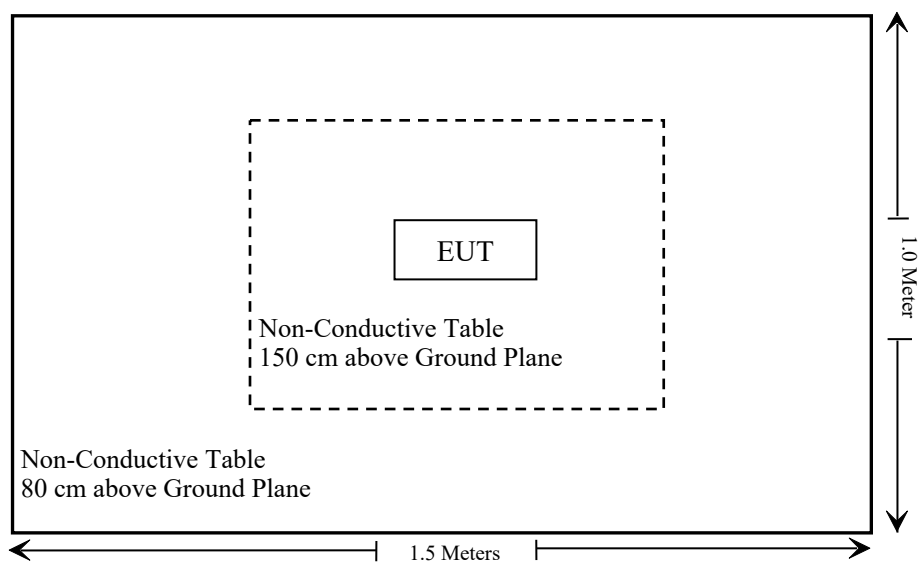
For AC Line Conducted Emissions:



For Spurious emissions below 1GHz:



For Spurious emissions above 1GHz:



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**SUMMARY OF TEST RESULTS**

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| FCC Rules                            | Description of Test                          | Result    |
|--------------------------------------|----------------------------------------------|-----------|
| §1.1307 (b) (3) & §2.1093            | RF Exposure                                  | Compliant |
| §15.203                              | Antenna Requirement                          | Compliant |
| §15.207(a)                           | AC Line Conducted Emissions                  | Compliant |
| 15.205, §15.209,<br>§15.249(a)(c)(d) | Radiated Emissions& Outside of Band Emission | Compliant |
| §15.215 (c)                          | 20 dB Bandwidth                              | Compliant |

## TEST EQUIPMENT LIST

| Manufacturer                                        | Description                       | Model            | Serial Number          | Calibration Date | Calibration Due Date |
|-----------------------------------------------------|-----------------------------------|------------------|------------------------|------------------|----------------------|
| <b>AC Line Conducted Emissions Test</b>             |                                   |                  |                        |                  |                      |
| Rohde & Schwarz                                     | EMI Test Receiver                 | ESCI             | 101120                 | 2025/09/01       | 2026/08/31           |
| Rohde & Schwarz                                     | LISN                              | ENV216           | 101613                 | 2025/09/18       | 2026/09/17           |
| Rohde & Schwarz                                     | Transient Limiter                 | ESH3Z2           | DE25985                | 2025/09/18       | 2026/09/17           |
| Unknown                                             | CE Cable                          | Unknown          | UF A210B-1-0720-504504 | 2025/09/18       | 2026/09/17           |
| Audix                                               | EMI Test software                 | E3               | 191218 V9(c)           | NCR              | NCR                  |
| Unknown                                             | CE Cable                          | LMRO-195         | 68999                  | 2026/02/28       | 2027/02/27           |
| <b>Radiated Emissions &amp; 20dB Bandwidth Test</b> |                                   |                  |                        |                  |                      |
| Rohde & Schwarz                                     | EMI Test Receiver                 | ESR3             | 102455                 | 2025/09/01       | 2026/08/31           |
| Sonoma instrument                                   | Pre-amplifier                     | 310 N            | 186238                 | 2025/09/08       | 2026/09/07           |
| Sunol Sciences                                      | Broadband Antenna                 | JB1              | A040904-1              | 2023/07/20       | 2026/07/19           |
| Unknown                                             | Chamber A Cable                   | Cable A1         | Cable A1               | 2025/09/08       | 2026/09/07           |
| Unknown                                             | Chamber A Cable                   | Cable A2         | Cable A2               | 2025/09/08       | 2026/09/07           |
| BACL                                                | Active Loop Antenna               | 1313-1A          | 4031911                | 2024/05/14       | 2027/05/13           |
| Unknown                                             | Chamber A Cable                   | Cable A3         | Cable A3               | 2025/09/08       | 2026/09/07           |
| Unknown                                             | Chamber A Cable                   | Cable A4         | Cable A4               | 2025/09/08       | 2026/09/07           |
| Audix                                               | EMI Test software                 | E3               | 19821b(V9)             | NCR              | NCR                  |
| TDK                                                 | Chamber                           | Chamber A        | 2#                     | 2023/07/12       | 2026/07/11           |
| Rohde & Schwarz                                     | Spectrum Analyzer                 | FSV40            | 101605                 | 2025/09/01       | 2026/08/31           |
| A.H.System                                          | Preamplifier                      | PAM-0118P        | 489                    | 2025/09/08       | 2026/09/07           |
| Schwarzbeck                                         | Horn Antenna                      | BBHA9120D (1201) | 1143                   | 2026/07/15       | 2027/07/14           |
| Unknown                                             | Chamber B Cable                   | Cable B1         | Cable B1               | 2025/09/08       | 2026/09/07           |
| Unknown                                             | Chamber B Cable                   | Cable B3         | Cable B3               | 2025/09/08       | 2026/09/07           |
| JD                                                  | Filter Switch Unit                | DT7220FSU        | DS79906                | 2026/06/23       | 2027/06/22           |
| JD                                                  | Multiplex Switch Test Control Set | DT7220SCU        | DS79903                | 2026/06/23       | 2027/06/22           |

|         |                   |           |              |            |            |
|---------|-------------------|-----------|--------------|------------|------------|
| Audix   | EMI Test software | E3        | 191218 V9(c) | NCR        | NCR        |
| TDK     | Chamber           | Chamber B | 1#           | 2026/07/06 | 2029/07/05 |
| Unknown | Chamber B Cable   | Cable B4  | N/A          | 2026/07/06 | 2027/07/05 |

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

## **§1.1307 (b) (3) & §2.1093 - RF EXPOSURE**

### **Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance V01

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

**For worst case:**

| Mode | Frequency<br>(MHz) | Maximum E-Field<br>(dBuV/m@3m) | Maximum EIRP |      | 1-mW Test<br>Exemption |
|------|--------------------|--------------------------------|--------------|------|------------------------|
|      |                    |                                | (dBm)        | (mW) |                        |
| FSK  | 915-916.4          | 93.95                          | -1.25        | 0.75 | Yes                    |

Note: EIRP = E-Field – 95.2 @3m

**Result: Compliant.**

## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According 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.

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.

### **Antenna Connector Construction**

The EUT has one internal antenna which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

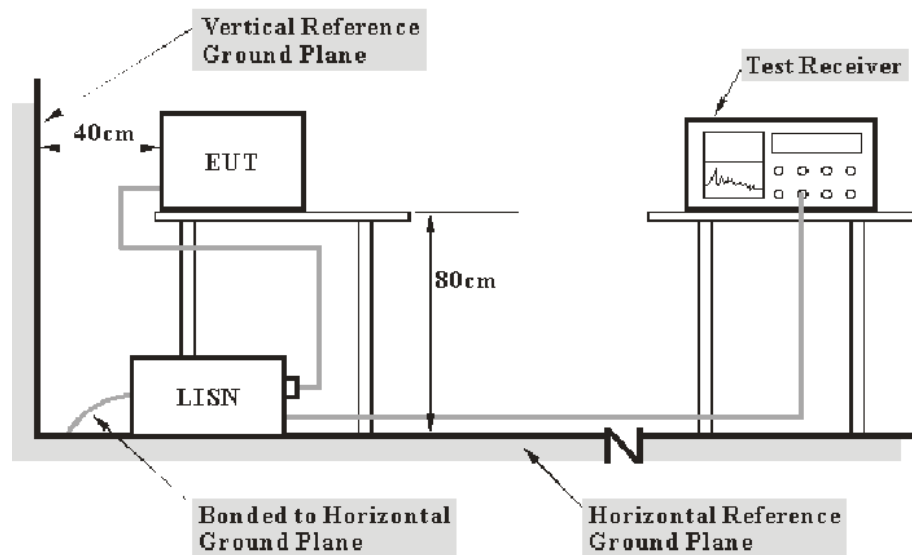
**Result: Compliant.**

## FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### EUT Setup



Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

### 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  | RBW   |
|------------------|-------|
| 150 kHz – 30 MHz | 9 kHz |

## Test Procedure

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

## Test Data

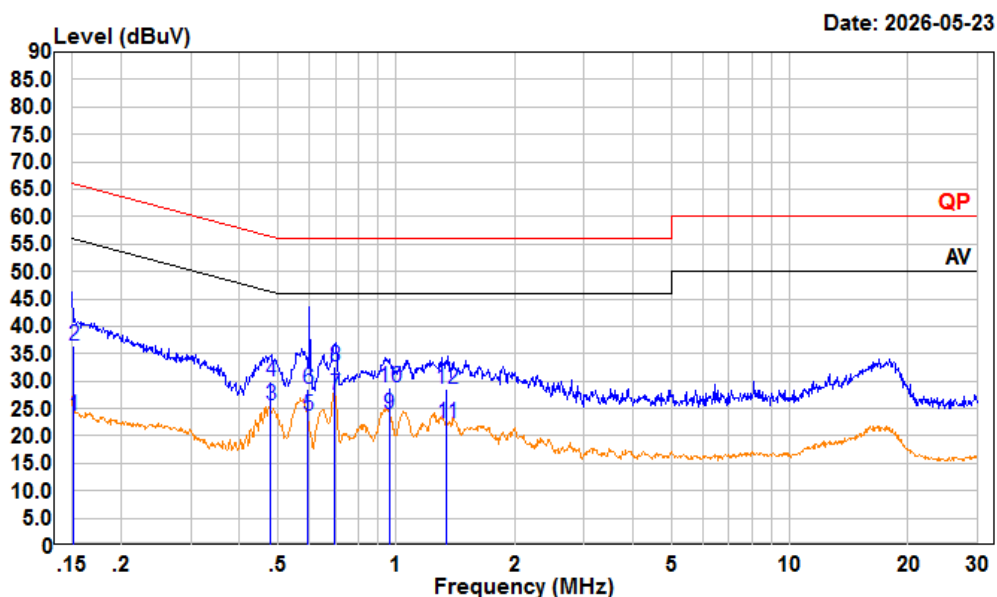
### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.8 °C   |
| Relative Humidity: | 69 %      |
| ATM Pressure:      | 100.4 kPa |

*The testing was performed by Macy Shi on 2026-05-23.*

*EUT operation mode: Transmitting (worst case is high channel)*

## AC 120V/60 Hz, Line



Condition: Line

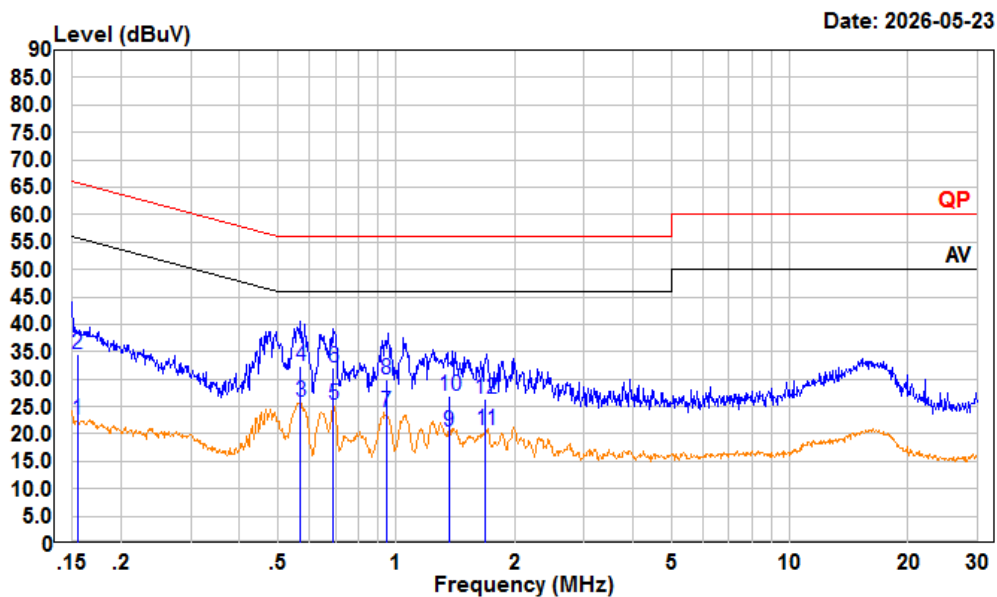
Project : 2601S55904E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

|    | Freq  | Read<br>Level | Level | LISN<br>Factor | Cable<br>Loss | Limit<br>Line | Over<br>Limit | Remark  |
|----|-------|---------------|-------|----------------|---------------|---------------|---------------|---------|
|    | MHz   | dBuV          | dBuV  | dB             | dB            | dBuV          | dB            |         |
| 1  | 0.152 | 3.84          | 23.56 | 9.70           | 10.02         | 55.91         | -32.35        | Average |
| 2  | 0.152 | 16.65         | 36.37 | 9.70           | 10.02         | 65.91         | -29.54        | QP      |
| 3  | 0.478 | 5.82          | 25.55 | 9.70           | 10.03         | 46.37         | -20.82        | Average |
| 4  | 0.478 | 10.24         | 29.97 | 9.70           | 10.03         | 56.37         | -26.40        | QP      |
| 5  | 0.595 | 4.01          | 23.75 | 9.70           | 10.04         | 46.00         | -22.25        | Average |
| 6  | 0.595 | 8.70          | 28.44 | 9.70           | 10.04         | 56.00         | -27.56        | QP      |
| 7  | 0.697 | 7.82          | 27.56 | 9.70           | 10.04         | 46.00         | -18.44        | Average |
| 8  | 0.697 | 13.01         | 32.75 | 9.70           | 10.04         | 56.00         | -23.25        | QP      |
| 9  | 0.962 | 4.14          | 24.07 | 9.88           | 10.05         | 46.00         | -21.93        | Average |
| 10 | 0.962 | 8.91          | 28.84 | 9.88           | 10.05         | 56.00         | -27.16        | QP      |
| 11 | 1.342 | 2.11          | 22.22 | 9.90           | 10.21         | 46.00         | -23.78        | Average |
| 12 | 1.342 | 8.48          | 28.59 | 9.90           | 10.21         | 56.00         | -27.41        | QP      |

## AC 120V/60 Hz, Neutral



Condition: neutral

Project : 2601S55904E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

|    | Freq  | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|-------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz   | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.154 | 2.94       | 22.56      | 9.60        | 10.02      | 55.76      | -33.20     | Average |
| 2  | 0.154 | 14.98      | 34.60      | 9.60        | 10.02      | 65.76      | -31.16     | QP      |
| 3  | 0.570 | 6.34       | 25.98      | 9.60        | 10.04      | 46.00      | -20.02     | Average |
| 4  | 0.570 | 12.84      | 32.48      | 9.60        | 10.04      | 56.00      | -23.52     | QP      |
| 5  | 0.693 | 5.66       | 25.30      | 9.60        | 10.04      | 46.00      | -20.70     | Average |
| 6  | 0.693 | 12.48      | 32.12      | 9.60        | 10.04      | 56.00      | -23.88     | QP      |
| 7  | 0.943 | 4.28       | 23.93      | 9.60        | 10.05      | 46.00      | -22.07     | Average |
| 8  | 0.943 | 10.32      | 29.97      | 9.60        | 10.05      | 56.00      | -26.03     | QP      |
| 9  | 1.358 | 0.55       | 20.36      | 9.60        | 10.21      | 46.00      | -25.64     | Average |
| 10 | 1.358 | 7.04       | 26.85      | 9.60        | 10.21      | 56.00      | -29.15     | QP      |
| 11 | 1.684 | 0.86       | 20.67      | 9.60        | 10.21      | 46.00      | -25.33     | Average |
| 12 | 1.684 | 6.49       | 26.30      | 9.60        | 10.21      | 56.00      | -29.70     | QP      |

## FCC§15.205, §15.209 & §15.249(a)(c)(d) - RADIATED EMISSIONS

### Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

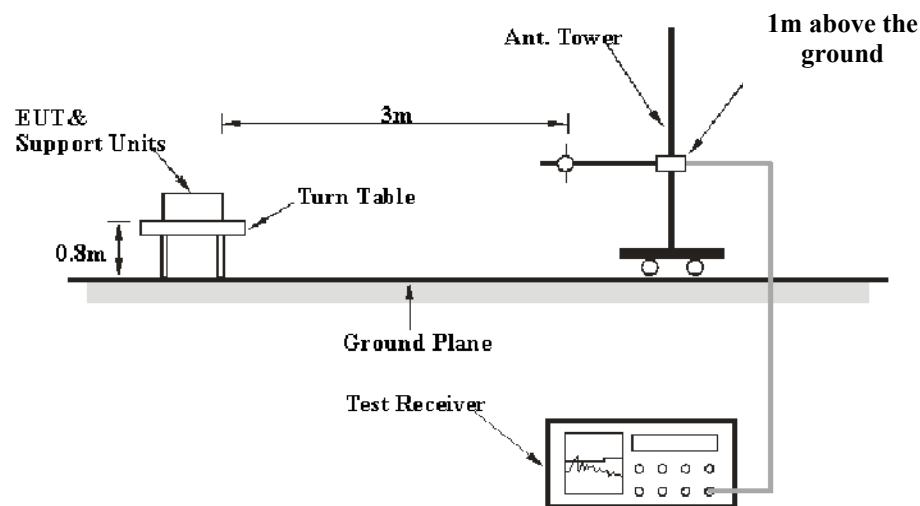
| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------|--------------------------------------------------|------------------------------------------------|
| 902–928 MHz           | 50                                               | 500                                            |
| 2400–2483.5 MHz       | 50                                               | 500                                            |
| 5725–5875 MHz         | 50                                               | 500                                            |
| 24.0–24.25 GHz        | 250                                              | 2500                                           |

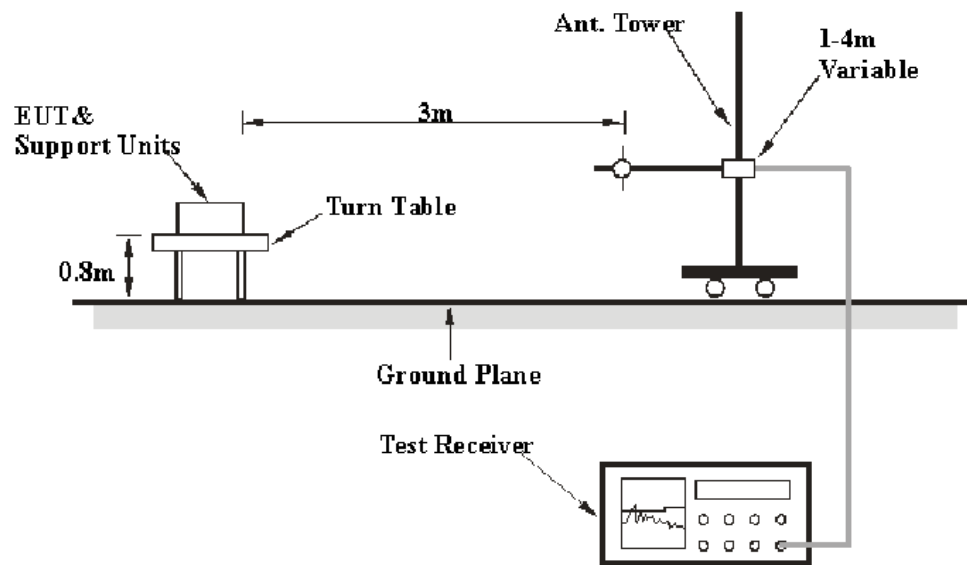
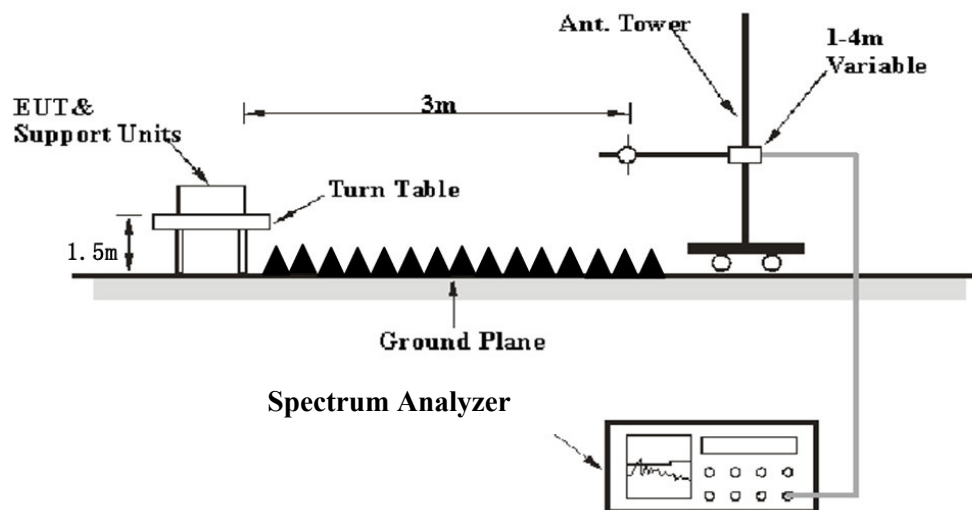
As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### EUT Setup

#### 9 kHz-30MHz:



**30MHz-1GHz:****Above 1GHz:**

The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW                         | Video B/W | IF B/W  | Measurement | Detector |
|-------------------|-----------------------------|-----------|---------|-------------|----------|
| 9 kHz – 150 kHz   | /                           | /         | 200 Hz  | QP          | QP       |
|                   | 300 Hz                      | 1 kHz     | /       | PK          | PK       |
| 150 kHz – 30 MHz  | /                           | /         | 9 kHz   | QP          | QP       |
|                   | 10 kHz                      | 30 kHz    | /       | PK          | PK       |
| 30 MHz – 1000 MHz | /                           | /         | 120 kHz | QP          | QP       |
|                   | 120 kHz                     | 500 kHz   | /       | PK          | PK       |
| Above 1 GHz       | Harmonics                   |           |         |             |          |
|                   | 1MHz                        | 3 MHz     | /       | PK          | PK       |
|                   | 1MHz                        | ≥10 Hz    | /       | Average     | PK       |
|                   | Band Edge & Other Emissions |           |         |             |          |
|                   | 1MHz                        | 3 MHz     | /       | PK          | PK       |
|                   | 1MHz                        | ≥10 Hz    | /       | Average     | PK       |

## Test Procedure

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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

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

## Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

## Test Data

### Environmental Conditions

|                    |                |
|--------------------|----------------|
| Temperature:       | 23.4~25 °C     |
| Relative Humidity: | 47~55 %        |
| ATM Pressure:      | 99.9~101.1 kPa |

*The testing was performed by Anson Su on 2026-05-25 for below 1GHz and Hugh Li on 2026-07-27 for above 1GHz.*

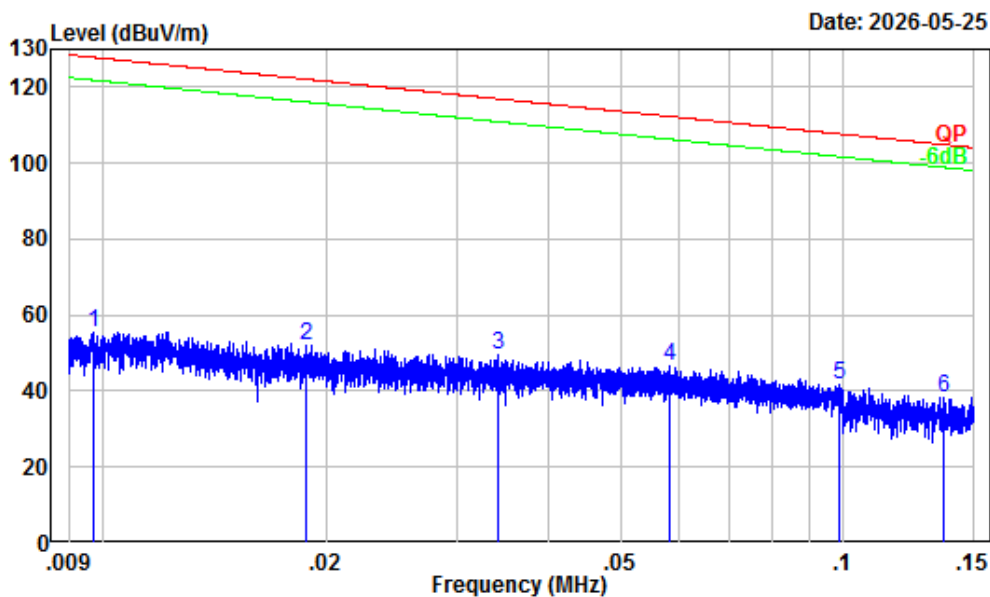
*EUT operation mode: Transmitting*

*Note: Pre-scan in the X, Y and Z axes of orientation, the worst case X-axis of orientation was recorded*

**9 kHz-30MHz:** worst case at high channel

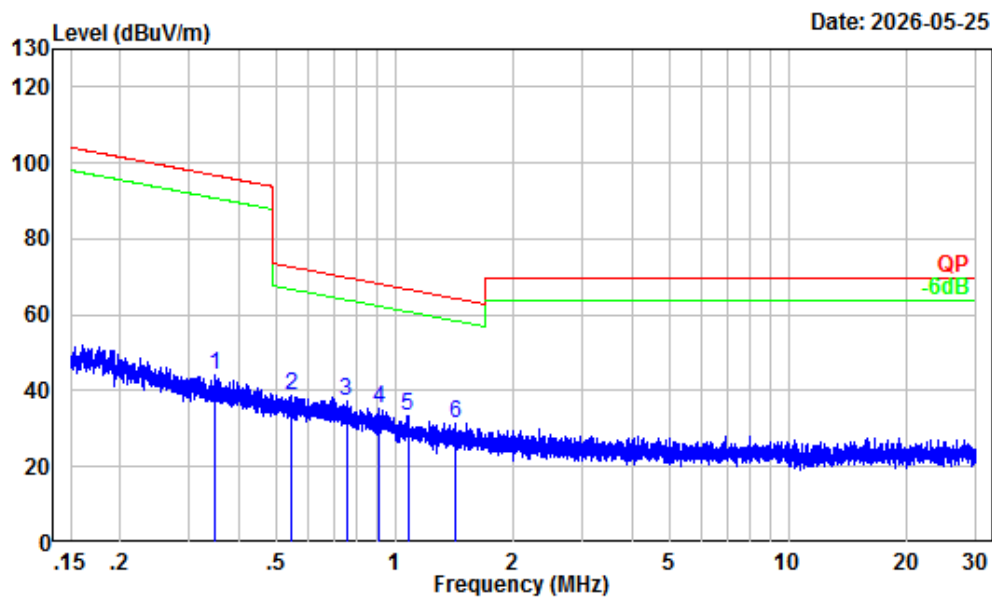
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case)



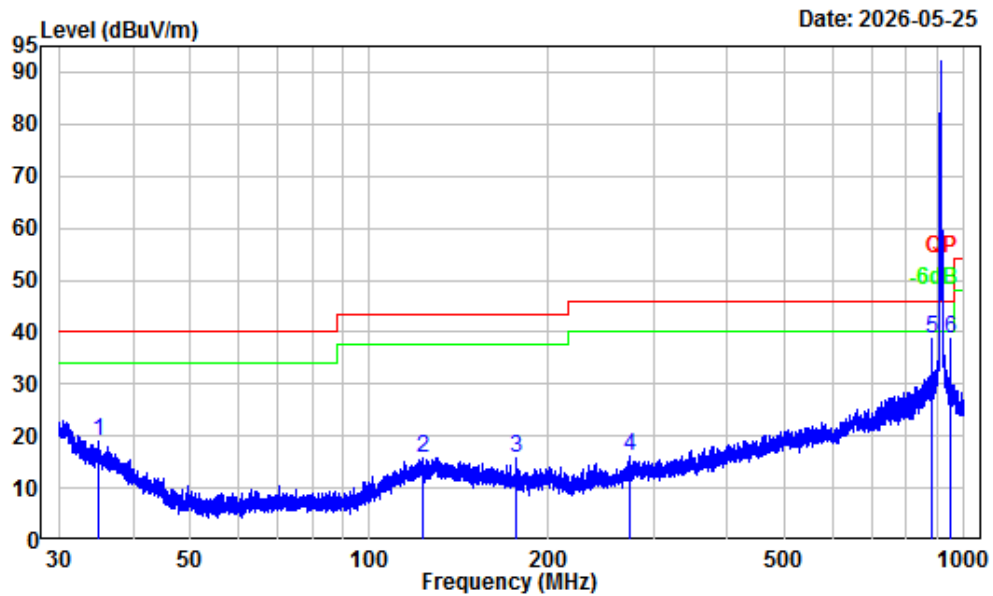
Site : Chamber A  
Condition : 3m  
Project Number : 2601S55904E-RF  
Test Mode : Transmitting  
Detector: Peak RBW/VBW: 0.3/1kHz  
Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|------|--------|------------|-------------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB         |        |
| 1 | 0.01 | 32.35  | 23.16      | 55.51       | 127.84     | -72.33     | Peak   |
| 2 | 0.02 | 30.63  | 21.51      | 52.14       | 122.11     | -69.97     | Peak   |
| 3 | 0.03 | 28.07  | 21.36      | 49.43       | 116.94     | -67.51     | Peak   |
| 4 | 0.06 | 25.58  | 20.81      | 46.39       | 112.31     | -65.92     | Peak   |
| 5 | 0.10 | 22.07  | 19.66      | 41.73       | 107.70     | -65.97     | Peak   |
| 6 | 0.14 | 19.83  | 18.61      | 38.44       | 104.89     | -66.45     | Peak   |



Site : Chamber A  
Condition : 3m  
Project Number : 2601S55904E-RF  
Test Mode : Transmitting  
Detector: Peak RBW/VBW: 10/30kHz  
Tester : Anson Su

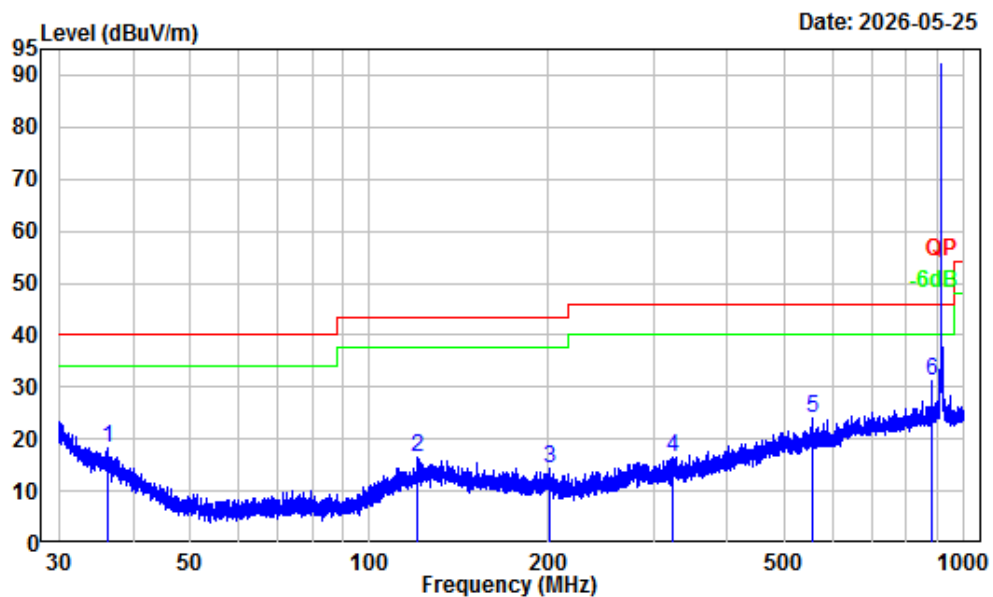
|   | Freq | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz  | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 0.35 | 9.24   | 34.96         | 44.20  | 96.71         | -52.51        | Peak   |
| 2 | 0.55 | 5.81   | 33.18         | 38.99  | 72.81         | -33.82        | Peak   |
| 3 | 0.75 | 3.29   | 33.98         | 37.27  | 70.00         | -32.73        | Peak   |
| 4 | 0.91 | 1.87   | 33.41         | 35.28  | 68.30         | -33.02        | Peak   |
| 5 | 1.08 | 0.98   | 32.33         | 33.31  | 66.80         | -33.49        | Peak   |
| 6 | 1.43 | 0.00   | 31.40         | 31.40  | 64.31         | -32.91        | Peak   |

**30MHz-1GHz:** worst case at high channel**Horizontal**

Site : Chamber A  
Condition : 3m Horizontal  
Project Number : 2601S55904E-RF  
Test Mode : Transmitting  
Detector: Peak RBW/VBW: 120/500kHz  
Tester : Anson Su

|   | Freq Factor |        | Read  | Limit  | Over   | Remark      |
|---|-------------|--------|-------|--------|--------|-------------|
|   | MHz         | dB/m   | Level | Line   | Limit  |             |
|   |             |        | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | 34.882      | -8.76  | 27.68 | 18.92  | 40.00  | -21.08 Peak |
| 2 | 122.888     | -11.54 | 27.32 | 15.78  | 43.50  | -27.72 Peak |
| 3 | 175.960     | -13.76 | 29.65 | 15.89  | 43.50  | -27.61 Peak |
| 4 | 274.675     | -11.80 | 27.81 | 16.01  | 46.00  | -29.99 Peak |
| 5 | 884.503     | -1.90  | 40.63 | 38.73  | 46.00  | -7.27 Peak  |
| 6 | 948.761     | -1.52  | 40.19 | 38.67  | 46.00  | -7.33 Peak  |

## Vertical



Site : Chamber A  
Condition : 3m Vertical  
Project Number : 2601S55904E-RF  
Test Mode : Transmitting  
Detector: Peak RBW/VBW: 120/500kHz  
Tester : Anson Su

|   | Freq    | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz     | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 36.222  | -9.62  | 27.74         | 18.12  | 40.00         | -21.88        | Peak   |
| 2 | 120.013 | -11.84 | 28.43         | 16.59  | 43.50         | -26.91        | Peak   |
| 3 | 200.688 | -13.42 | 27.81         | 14.39  | 43.50         | -29.11        | Peak   |
| 4 | 323.746 | -11.11 | 27.61         | 16.50  | 46.00         | -29.50        | Peak   |
| 5 | 556.530 | -5.85  | 29.79         | 23.94  | 46.00         | -22.06        | Peak   |
| 6 | 884.503 | -1.90  | 32.99         | 31.09  | 46.00         | -14.91        | Peak   |

**Fundamental, Band edge and Harmonic:**

| Frequency (MHz) | Reading (dBμV) | QP/PK/AV | Polar (H/V) | Factor (dB/m) | Absolute Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|----------------|----------|-------------|---------------|-------------------------|----------------|-------------|
| Low Channel     |                |          |             |               |                         |                |             |
| 902.0           | 31.15          | PK       | H           | -0.87         | 30.28                   | 46             | -15.72      |
| 902.0           | 32.24          | PK       | V           | -0.87         | 31.37                   | 46             | -14.63      |
| 915.0           | 90.69          | QP       | H           | -0.65         | 90.04                   | 94             | -3.96       |
| 915.0           | 94.44          | QP       | V           | -0.65         | 93.79                   | 94             | -0.21       |
| 1830.00         | 63.24          | PK       | H           | -12.89        | 50.35                   | 74             | -23.65      |
| 1830.00         | 66.81          | PK       | V           | -12.89        | 53.92                   | 74             | -20.08      |
| 2745.00         | 54.14          | PK       | H           | -9.38         | 44.76                   | 74             | -29.24      |
| 2745.00         | 58.24          | PK       | V           | -9.38         | 48.86                   | 74             | -25.14      |
| 3660.00         | 54.12          | PK       | H           | -7.17         | 46.95                   | 74             | -27.05      |
| 3660.00         | 53.10          | PK       | V           | -7.17         | 45.93                   | 74             | -28.07      |
| 4575.00         | 52.06          | PK       | H           | -6.12         | 45.94                   | 74             | -28.06      |
| 4575.00         | 54.31          | PK       | V           | -6.12         | 48.19                   | 74             | -25.81      |
| 5490.00         | 55.18          | PK       | H           | -3.80         | 51.38                   | 74             | -22.62      |
| 5490.00         | 56.31          | PK       | V           | -3.80         | 52.51                   | 74             | -21.49      |
| 6405.00         | 54.28          | PK       | H           | -1.75         | 52.53                   | 74             | -21.47      |
| 6405.00         | 55.19          | PK       | V           | -1.75         | 53.44                   | 74             | -20.56      |
| High Channel    |                |          |             |               |                         |                |             |
| 916.4           | 94.07          | QP       | H           | -0.65         | 93.42                   | 94             | -0.58       |
| 916.4           | 94.60          | QP       | V           | -0.65         | 93.95                   | 94             | -0.05       |
| 928.0           | 32.05          | PK       | H           | -0.54         | 31.51                   | 46             | -14.49      |
| 928.0           | 32.89          | PK       | V           | -0.54         | 32.35                   | 46             | -13.65      |
| 1832.80         | 63.12          | PK       | H           | -12.88        | 50.24                   | 74             | -23.76      |
| 1832.80         | 66.81          | PK       | V           | -12.88        | 53.93                   | 74             | -20.07      |
| 2749.20         | 54.21          | PK       | H           | -9.37         | 44.84                   | 74             | -29.16      |
| 2749.20         | 58.02          | PK       | V           | -9.37         | 48.65                   | 74             | -25.35      |
| 3665.60         | 54.10          | PK       | H           | -7.20         | 46.90                   | 74             | -27.10      |
| 3665.60         | 53.20          | PK       | V           | -7.20         | 46.00                   | 74             | -28.00      |
| 4582.00         | 54.37          | PK       | H           | -6.12         | 48.25                   | 74             | -25.75      |
| 4582.00         | 55.11          | PK       | V           | -6.12         | 48.99                   | 74             | -25.01      |
| 5498.40         | 56.33          | PK       | H           | -3.79         | 52.54                   | 74             | -21.46      |
| 5498.40         | 57.11          | PK       | V           | -3.79         | 53.32                   | 74             | -20.68      |
| 6414.80         | 55.32          | PK       | H           | -1.78         | 53.54                   | 74             | -20.46      |
| 6414.80         | 55.59          | PK       | V           | -1.78         | 53.81                   | 74             | -20.19      |

**Note:**

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

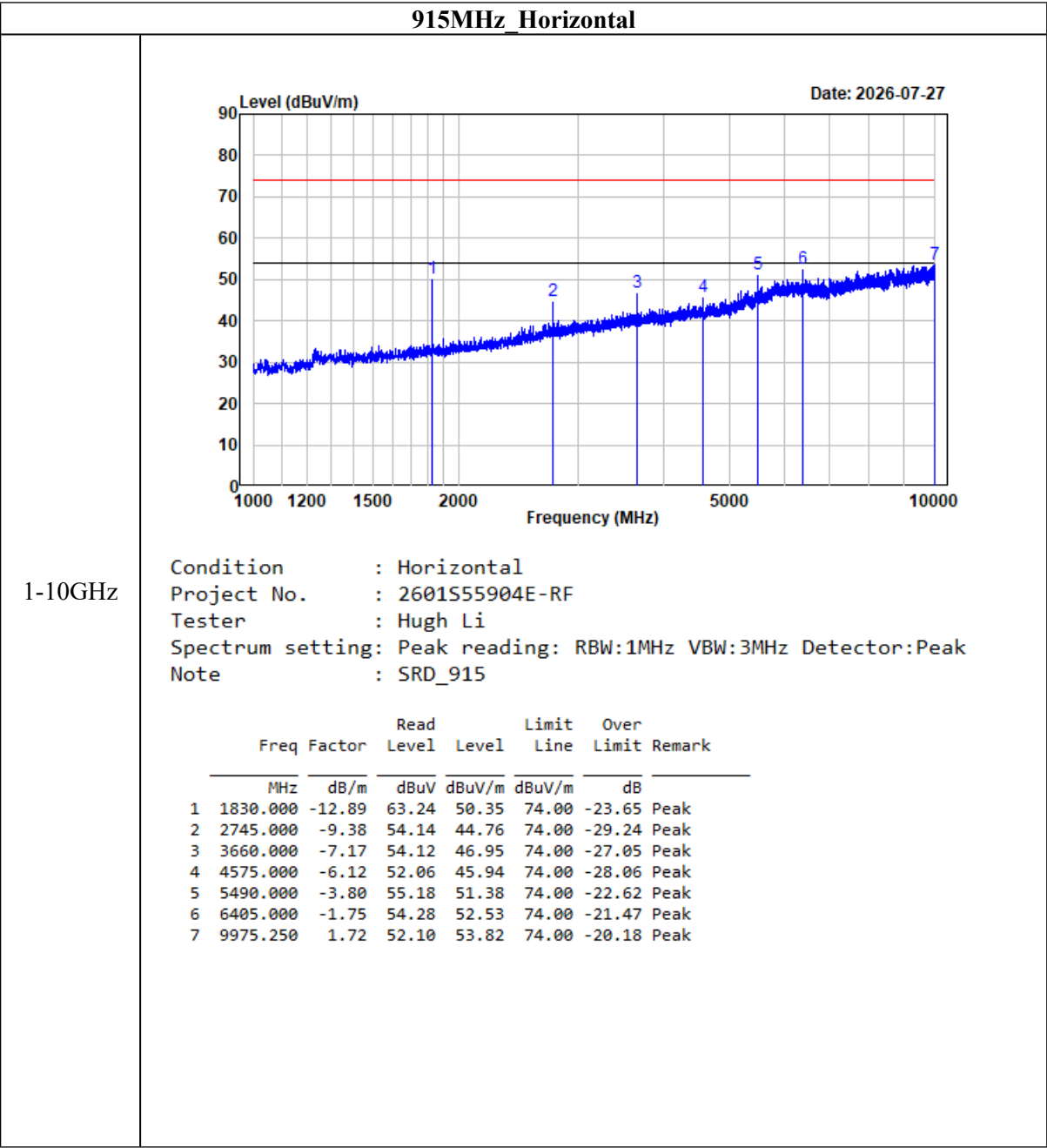
Absolute Level (Corrected Amplitude) = Factor + Reading

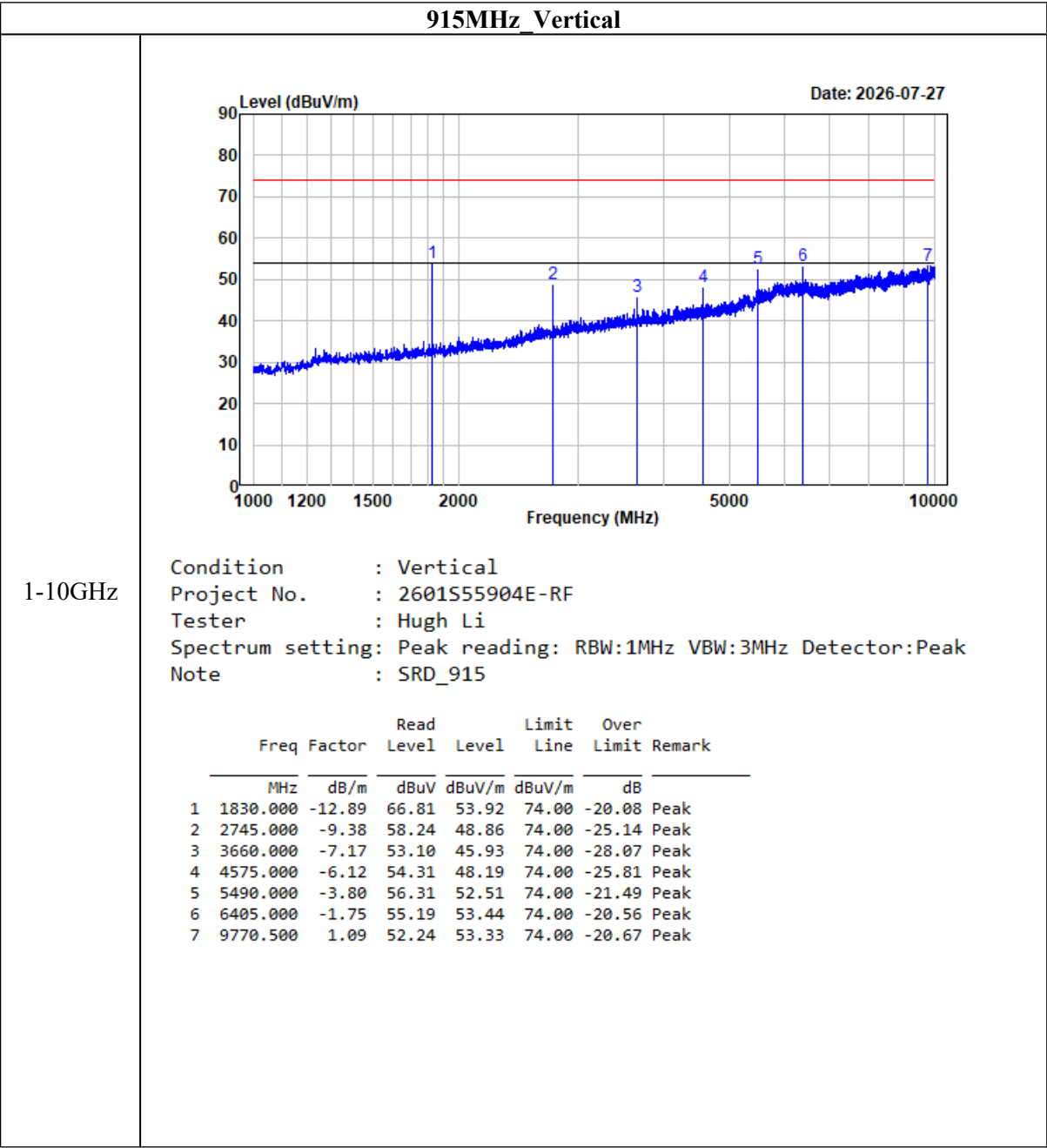
Margin = Absolute Level - Limit

The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

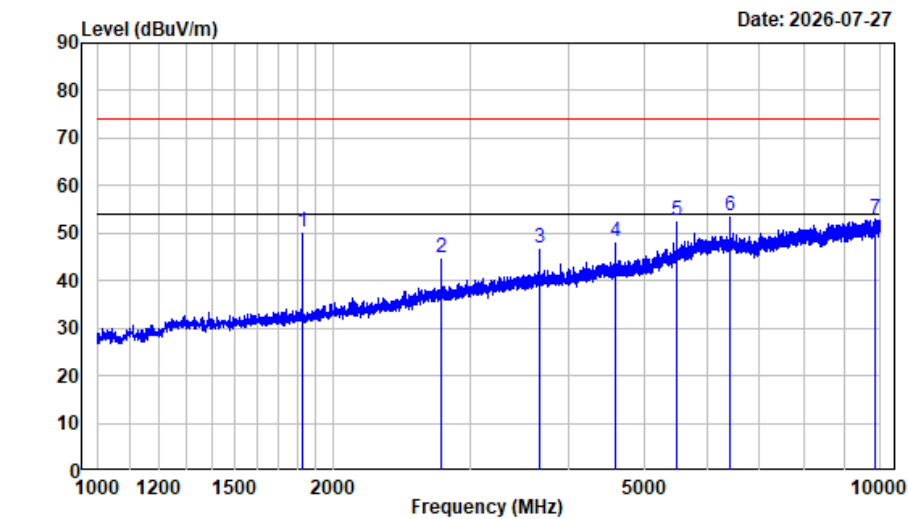
Listed with the worst case test plot:





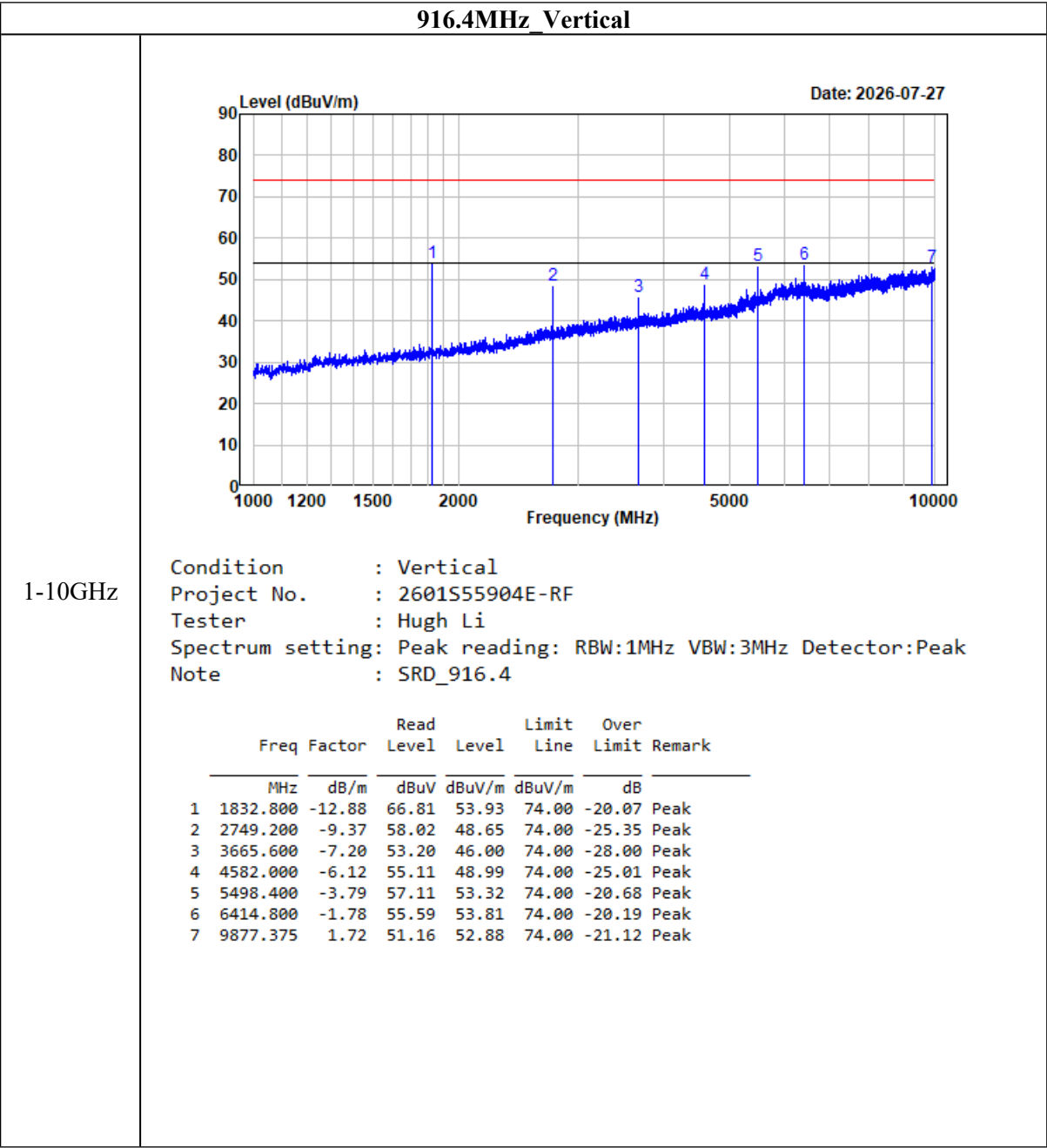
916.4MHz\_Horizontal

1-10GHz



Condition : Horizontal  
Project No. : 2601S55904E-RF  
Tester : Hugh Li  
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak  
Note : SRD\_916.4

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1832.800 | -12.88 | 63.12      | 50.24  | 74.00      | -23.76     | Peak   |
| 2 | 2749.200 | -9.37  | 54.21      | 44.84  | 74.00      | -29.16     | Peak   |
| 3 | 3665.600 | -7.20  | 54.10      | 46.90  | 74.00      | -27.10     | Peak   |
| 4 | 4582.000 | -6.12  | 54.37      | 48.25  | 74.00      | -25.75     | Peak   |
| 5 | 5498.400 | -3.79  | 56.33      | 52.54  | 74.00      | -21.46     | Peak   |
| 6 | 6414.800 | -1.78  | 55.32      | 53.54  | 74.00      | -20.46     | Peak   |
| 7 | 9840.250 | 1.58   | 51.25      | 52.83  | 74.00      | -21.17     | Peak   |



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## FCC§15.215(c) - 20dB EMISSION BANDWIDTH

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### Applicable Standard

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.

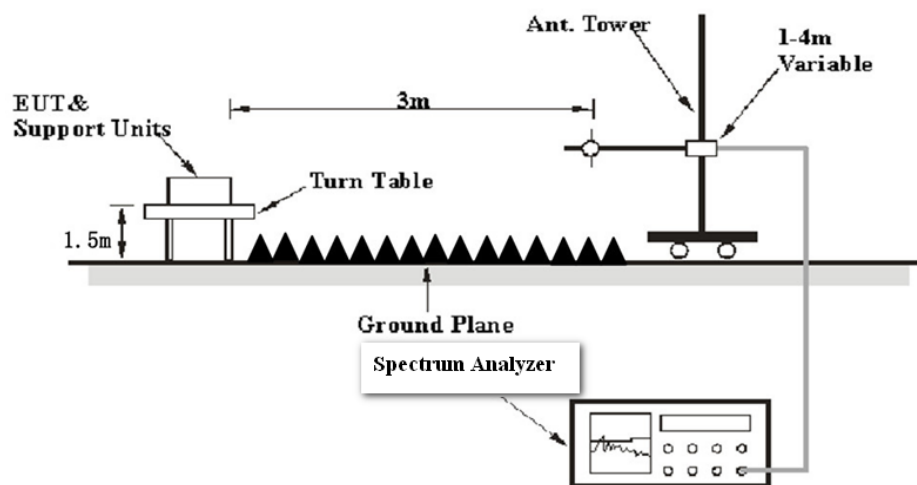
### Test Procedure

Test Method: ANSI C63.10-2020 Clause 6.9.2

- a) 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.
- b) 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 at least three times RBW, unless otherwise specified by the applicable requirement.
- c) 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 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) 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  $[(\text{reference value}) - \text{xx}]$ . 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 dBc 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 dBc bandwidth shall be reported by providing spectral 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).



**Test Data****Environmental Conditions**

|                           |          |
|---------------------------|----------|
| <b>Temperature:</b>       | 23.4 °C  |
| <b>Relative Humidity:</b> | 47 %     |
| <b>ATM Pressure:</b>      | 99.9 kPa |

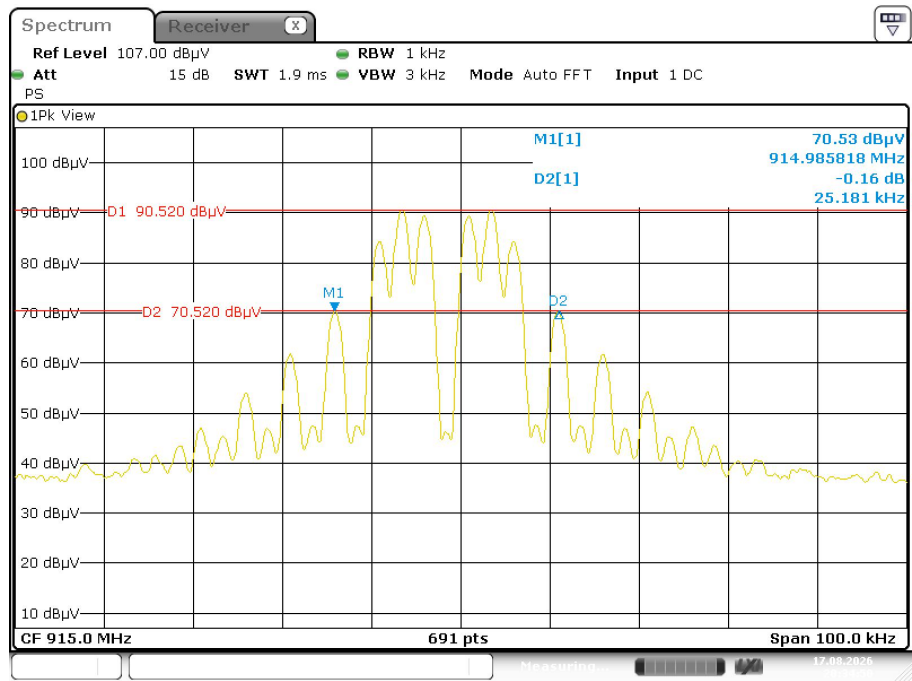
*The testing was performed by Anson Su on 2026-08-17*

*EUT operation mode: Transmitting*

*Please refer to the following table and plots.*

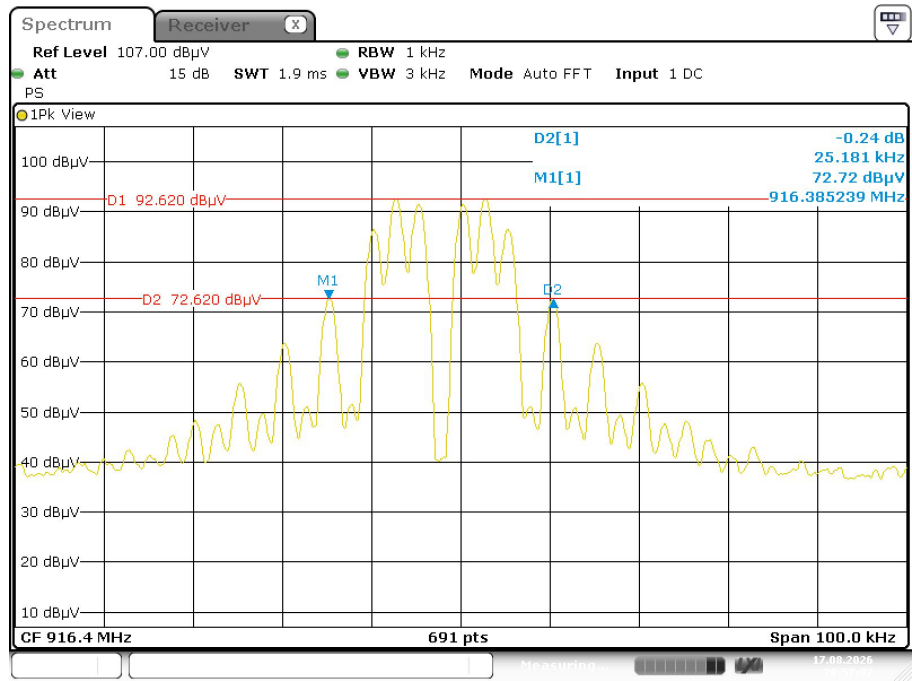
| <b>Channel</b> | <b>Frequency<br/>(MHz)</b> | <b>20dB Bandwidth<br/>(kHz)</b> |
|----------------|----------------------------|---------------------------------|
| Low            | 915.0                      | 25.181                          |
| High           | 916.4                      | 25.181                          |

Low channel



ProjectNo.:2601S55904E-RF Tester:Anson Su  
Date: 17.AUG.2026 20:34:50

High Channel



ProjectNo.:2601S55904E-RF Tester:Anson Su  
Date: 17.AUG.2026 20:57:07

## **EUT PHOTOGRAPHS**

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Please refer to the attachment 2601S55904E-RF-EXP External photo and 2601S55904E-RF-INP Internal photo.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2601S55904E-RF-00-TSP Test Setup photo.

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