

# JAPAN SPECIFIED RADIO EQUIPMENT

## TEST REPORT

For

**Camera and Speakerphone**

**Trade Name: logi, logicool**

**Model: VR0050**

Issued to

**Logitech Far East Ltd.**

**#2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.**

Issued by

**Compliance Certification Services Inc.**

**Wugu Laboratory**

**No.11, Wugong 6th Rd., Wugu Dist.,**

**New Taipei City, Taiwan.**

**Issued Date: June 29, 2026**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Project No.: TM-2602000265P  
Report No.: TMWK2603001473KR

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**Revision History**

| Rev. | Issue Date    | Revisions     | Effect Page | Revised By   |
|------|---------------|---------------|-------------|--------------|
| 00   | June 29, 2026 | Initial Issue | ALL         | Allison Chen |

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## 1. TEST RESULT CERTIFICATION

**Applicant:** Logitech Far East Ltd.  
#2 Creation Rd. 4, Science-Based Ind. Park Hsinchu  
Taiwan, R.O.C.

**Manufacturer:** Logitech Europe S.A.  
EPFL – Quartier de l’Innovation Daniel Borel Innovation  
Center, 1015 Lausanne, Switzerland.

**Equipment Under Test:** Camera and Speakerphone

**Model Number:** VR0050

**Detailed EUT Description:** See Item 3 of this report

**EUT Receive Date:** February 12, 2026

**Date of Test:** May 04~07, 2026

| APPLICABLE STANDARDS                                                                                                                                |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| CLASSIFICATION                                                                                                                                      | TEST RESULT |
| Article 2 Clause 1 Item 8                                                                                                                           | Compliance  |
| Statements of Conformity                                                                                                                            |             |
| Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty. |             |

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in Article 2 Clause 1 Item 8. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Measurement was conducted by the following test method: the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 22-16 of Article 88, Paragraph 1 or the test method more than equivalent.

**Approved by:**

*Sehni Hu*

Sehni Hu  
Supervisor  
Compliance Certification Services Inc.

## 2. EUT DESCRIPTION

|                                    |                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>                | Camera and Speakerphone                                                                                                |
| <b>Model Name</b>                  | VR0050                                                                                                                 |
| <b>Trade Name</b>                  | logi, logicool                                                                                                         |
| <b>Power Supply</b>                | Power from Adapter.<br>Brand / Model: logi / HA-1151-19<br>I/P: 100-240Vac, 2.0A, 50-60Hz<br>O/P: 19.5Vdc, 7.7A 150.0W |
| <b>Frequency Range</b>             | 24.15~24.24 GHz                                                                                                        |
| <b>Rated Antenna Power (mW)</b>    | 0.3162                                                                                                                 |
| <b>Measured Antenna Power (mW)</b> | 0.2960                                                                                                                 |
| <b>Test Category</b>               | Millimeter-Wave Radar Equipment                                                                                        |
| <b>Modulation Technique</b>        | F3N (FMCW)                                                                                                             |
| <b>Antenna Specification</b>       | Type: Patch Antenna<br>Brand / Model: Terasilic / SenseBoost12-PH12<br>Gain: 6.6 dBi                                   |
| <b>H.W Version</b>                 | PB2-2                                                                                                                  |
| <b>S.W Version</b>                 | 920.72                                                                                                                 |

### Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

### 3. TEST METHODOLOGY & CONDITIONS

#### 3.1 TEST CONDITIONS

| Voltage Fluctuation Test | Normal Voltage | High Voltage + 10% of Normal Voltage | Low Voltage - 10% of Normal Voltage |
|--------------------------|----------------|--------------------------------------|-------------------------------------|
| Input DC Power           | 100            | 110                                  | 90                                  |
| Output DC Power          | 5              | 5                                    | 5                                   |
| Voltage Variation (%)    | 0              | 0                                    | 0                                   |

Regulator IC: SY8286A

Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage) / Output Normal Voltage \* 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%.Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

#### 3.2 TESTING APPLIED STANDARDS

MIC Ordinance Regulating Radio Equipment Article 49.14

MIC Notice No.88 Appendix No.22-16

MIC Notice No.88 Appendix No.1

MIC Certification Rule, Article 2 Paragraph 1 Item 8

ARIB STD-73

### 3.3 DESCRIPTION OF TEST MODES

The EUT (model: VR0050) had been tested under operating condition.  
The EUT was programmed to be in continuously transmitting/receiving mode.

Frequency (24.15~24.24GHz) were chosen for full testing.

| Radiated Emission Measurement Above 1G |                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Condition                         | Radiated Emission Above 1G                                                                                                                                                                                                                                                                    |
| Power supply Mode                      | Mode 1: EUT power by Adapter                                                                                                                                                                                                                                                                  |
| Worst Mode                             | <input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4                                                                                                                                                    |
| Worst Position                         | <input type="checkbox"/> Placed in fixed position.<br><input type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane)<br><input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane)<br><input checked="" type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane) |

| Radiated Emission Measurement Below 1G |                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Test Condition                         | Radiated Emission Below 1G                                                                                                                 |
| Power supply Mode                      | Mode 1: EUT power by Adapter                                                                                                               |
| Worst Mode                             | <input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4 |

**Remark:**

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report

### 3.4 RF SHIELDING METHOD.

The plastic shell is made up of two parts, and the plastic parts are fixed together by screws.

The motherboard cannot be found when the plastic shell is opened.

The RF chip package is mounted on the motherboard and cannot be removed by any tool.



### 3.5 SETUP OF EQUIPMENT UNDER TEST

#### Setup Diagram

See test photographs attached in Appendix A for the actual connections between EUT and support equipment.

#### Support Equipment

| Support Unit List |              |            |               |                  |                 |        |
|-------------------|--------------|------------|---------------|------------------|-----------------|--------|
| Name of Equipment | Manufacturer | Model      | Serial Number | Calibration Date | Calibration Due | Remark |
| Adapter           | logi         | HA-1151-19 | N/A           | N/A              | N/A             | A      |

## **4 INSTRUMENT AND CALIBRATION**

### **4.1 MEASURING INSTRUMENT CALIBRATION**

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

### **4.2 TEST AND MEASUREMENT EQUIPMENT**

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

### 4.3 EQUIPMENT USED FOR EMISSION MEASUREMENT

| 966A_Radiated mmwave       |                |             |                         |                  |                 |                 |                                            |                    |
|----------------------------|----------------|-------------|-------------------------|------------------|-----------------|-----------------|--------------------------------------------|--------------------|
| Name of Equipment          | Manufacturer   | Model       | Serial Number           | Calibration Date | Calibration Due | Calibration Lab | Accreditation Organization of the-Cal. Lab | Calibration Method |
| Signal Analyzer            | Agilent        | N9010A      | MY52220817              | 2026-03-13       | 2027-03-12      | ETC             | TAF                                        | c                  |
| Active Loop Antenna        | COM-POWER      | AL-130      | 121051                  | 2026-02-04       | 2027-02-03      | ETC             | TAF                                        | c                  |
| Thermo-Hygro Meter         | HTC            | HTC-1       | HTC-D06                 | 2025-05-26       | 2026-05-25      | ETC             | TAF                                        | c                  |
| Bi-Log Antenna             | Sunol Sciences | JB3         | A030105&532             | 2025-06-26       | 2026-06-25      | ETC             | TAF                                        | c                  |
| Preamplifier               | EMEC           | EM330       | 060609                  | 2026-02-13       | 2027-02-12      | ETC             | TAF                                        | c                  |
| Cable                      | Huber+Suhner   | 104PEA      | 20995+21000+182330      | 2025-08-06       | 2026-08-05      | ETC             | TAF                                        | c                  |
| Horn Antenna               | ETC            | MCTD 1209   | DRH13M02003             | 2025-12-19       | 2026-12-18      | ETC             | TAF                                        | c                  |
| Preamplifier               | HP             | 8449B       | 3008A00965              | 2025-12-17       | 2026-12-16      | ETC             | TAF                                        | c                  |
| Cable                      | EMCI           | EMC101G     | 1508S0193+230206+250412 | 2026-01-14       | 2027-01-13      | ETC             | TAF                                        | c                  |
| Horn Antenna               | SCHWARZBECK    | BBHA9170    | 1047                    | 2025-12-09       | 2026-12-08      | ETC             | TAF                                        | c                  |
| Pre-Amplifier              | EMC            | EMC184045SE | 980860                  | 2025-11-19       | 2026-11-18      | ETC             | TAF                                        | c                  |
| Signal Generator           | R&S            | SMB100A     | 175936                  | 2026-01-21       | 2027-01-20      | ETC             | TAF                                        | c                  |
| STANDARD GAIN HORN ANTENNA | CMI            | RCHO19R     | RCHO19R                 | 2023-06-15       | 2026-06-14      | HCT             | TAF                                        | c                  |
| SA EXTENSION MODULE        | VDI            | SAX WR19    | SAX993                  | 2023-06-14       | 2026-06-13      | HCT             | TAF                                        | c                  |
| Turn Table                 | CCS            | CC-T-1F     | N/A                     | N.C.R            | N.C.R           | CCS             | TAF                                        | c                  |
| Controller                 | CCS            | CC-C-1F     | N/A                     | N.C.R            | N.C.R           | CCS             | TAF                                        | c                  |
| Antenna Tower              | CCS            | CC-A-1F     | N/A                     | N.C.R            | N.C.R           | CCS             | TAF                                        | c                  |
| Software                   | e3 V9-210616c  |             |                         |                  |                 |                 |                                            |                    |

| Conducted_TELEC (All)  |              |                      |               |                  |                 |                 |                                            |                    |
|------------------------|--------------|----------------------|---------------|------------------|-----------------|-----------------|--------------------------------------------|--------------------|
| Name of Equipment      | Manufacturer | Model                | Serial Number | Calibration Date | Calibration Due | Calibration Lab | Accreditation Organization of the-Cal. Lab | Calibration Method |
| Temp./Humidity Chamber | GWINSTEK     | GTC-288MH-CC         | TH160402      | 2025/06/09       | 2026/06/08      | ETC             | TAF                                        | c                  |
| Horn Antenna           | SCHWARZBECK  | BBHA9170             | 1047          | 2025/12/09       | 2026/12/08      | ETC             | TAF                                        | c                  |
| Coaxial Cable          | TELEDYNE     | ROHS-095-0004-1.2MTR | 201100-013    | 2025/5/19        | 2026/05/18      | ETC             | TAF                                        | c                  |
| PXA Signal Analyzer    | Keysight     | N9030B               | MY62291089    | 2025/09/24       | 2026/09/23      | ETC             | TAF                                        | c                  |
| Vibration table        | KingDesign   | EM-200F2K-25N50      | RM103104391   | 2025/08/20       | 2026/08/19      | KingDesign      | TAF                                        | c                  |
| Software               | N/A          |                      |               |                  |                 |                 |                                            |                    |

#### Remark:

- Each piece of equipment is scheduled for calibration once a year.
- Calibration Method:
  - Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
  - Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
  - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
  - Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

#### 4.4 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor)  $k = 1,96$  or  $k = 2$  (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table is based on such expansion factors.

**Table: Maximum measurement uncertainty**

| Parameter                     | Uncertainty             |
|-------------------------------|-------------------------|
| RF frequency                  | $\pm 1 \times 10^{-5}$  |
| Total RF power conducted      | $\pm 1,5$ dB            |
| RF power density, conducted   | $\pm 3$ dB              |
| Spurious emissions, conducted | $\pm 3$ dB              |
| All emissions, radiated       | $\pm 6$ dB              |
| Humidity                      | $\pm 5$ %               |
| Temperature                   | $\pm 1^{\circ}\text{C}$ |
| DC and low frequency voltages | $\pm 3\%$               |

#### Lab's MEASUREMENT UNCERTAINTY

| PARAMETER                       | UNCERTAINTY    |
|---------------------------------|----------------|
| Radiated Emission_9kHz-30MHz    | $\pm 2.750$ dB |
| Radiated Emission_30MHz-200MHz  | $\pm 3.874$ dB |
| Radiated Emission_200MHz-1GHz   | $\pm 4.065$ dB |
| Radiated Emission_1GHz-6GHz     | $\pm 5.594$ dB |
| Radiated Emission_6GHz-18GHz    | $\pm 5.556$ dB |
| Radiated Emission_18GHz-26GHz   | $\pm 3.165$ dB |
| Radiated Emission_26GHz-40GHz   | $\pm 3.216$ dB |
| Radiated Emission_40GHz-60GHz   | $\pm 2.259$ dB |
| Radiated Emission_60GHz-90GHz   | $\pm 2.215$ dB |
| Radiated Emission_90GHz-140GHz  | $\pm 2.225$ dB |
| Radiated Emission_140GHz-220GHz | $\pm 2.207$ dB |
| Radiated Emission_220GHz-325GHz | $\pm 2.311$ dB |

## 5 SUMMARY OF TEST RESULTS

| MIC No.88<br>Appendix 22-16 | Classification of EUT          | Result     |
|-----------------------------|--------------------------------|------------|
| 6                           | Antenna Power                  | Compliance |
| 6                           | Antenna Power Tolerance        | Compliance |
| -                           | Transmitter Antenna Gain       | Compliance |
| 4                           | Occupied Bandwidth             | Compliance |
| 2, 3, 4                     | Frequency Tolerance            | Compliance |
| 5                           | Transmitter Spurious Emissions | Compliance |
| 7                           | Receiver Spurious Emissions    | Compliance |

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## 5.1 TEST RESULT

**Temperature:** 24.1~25.4°C

**Humidity:** 58~59% RH

**Test date:** May 04~05, 2026

**Tested by:** Jerry Chang

**Temperature:** 25.6°C

**Humidity:** 53~55% RH

**Test date:** May 06~07, 2026

**Tested by:** Tony Chao

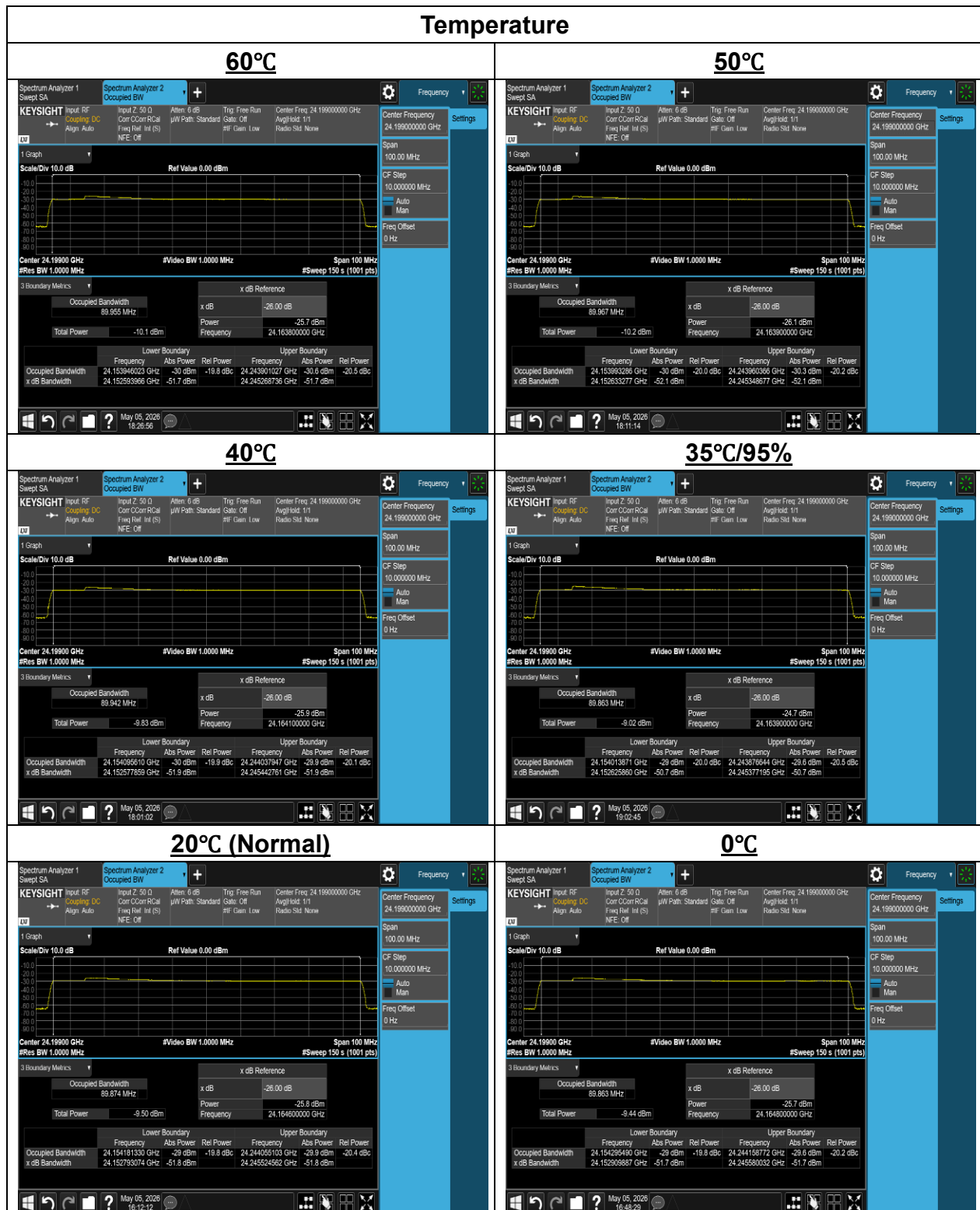
| Description                | Value  |     | Limit  |
|----------------------------|--------|-----|--------|
| Peak Antenna Gain          | 6.6    | dBi | <24dBi |
| Declaration Output Power   | 0.3162 | mW  | <20mW  |
| Declaration Output Power   | -5     | dBm | <13dBm |
| <b>Declaration E.I.R.P</b> | 1.45   | mW  |        |
|                            | 1.60   | dBm | <37dBm |
| Input Power Voltage        | 100    | VAC |        |

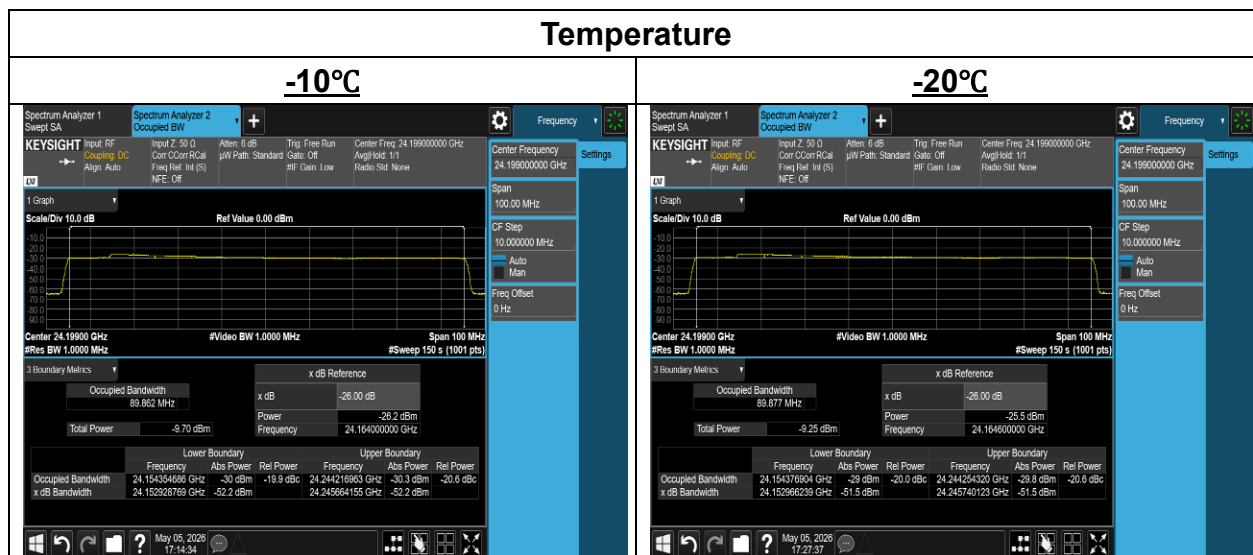
## 5.2 FREQUENCY TOLERANCE

|                       |     |         |
|-----------------------|-----|---------|
| Measurement Frequency | GHz | 24.1646 |
|-----------------------|-----|---------|

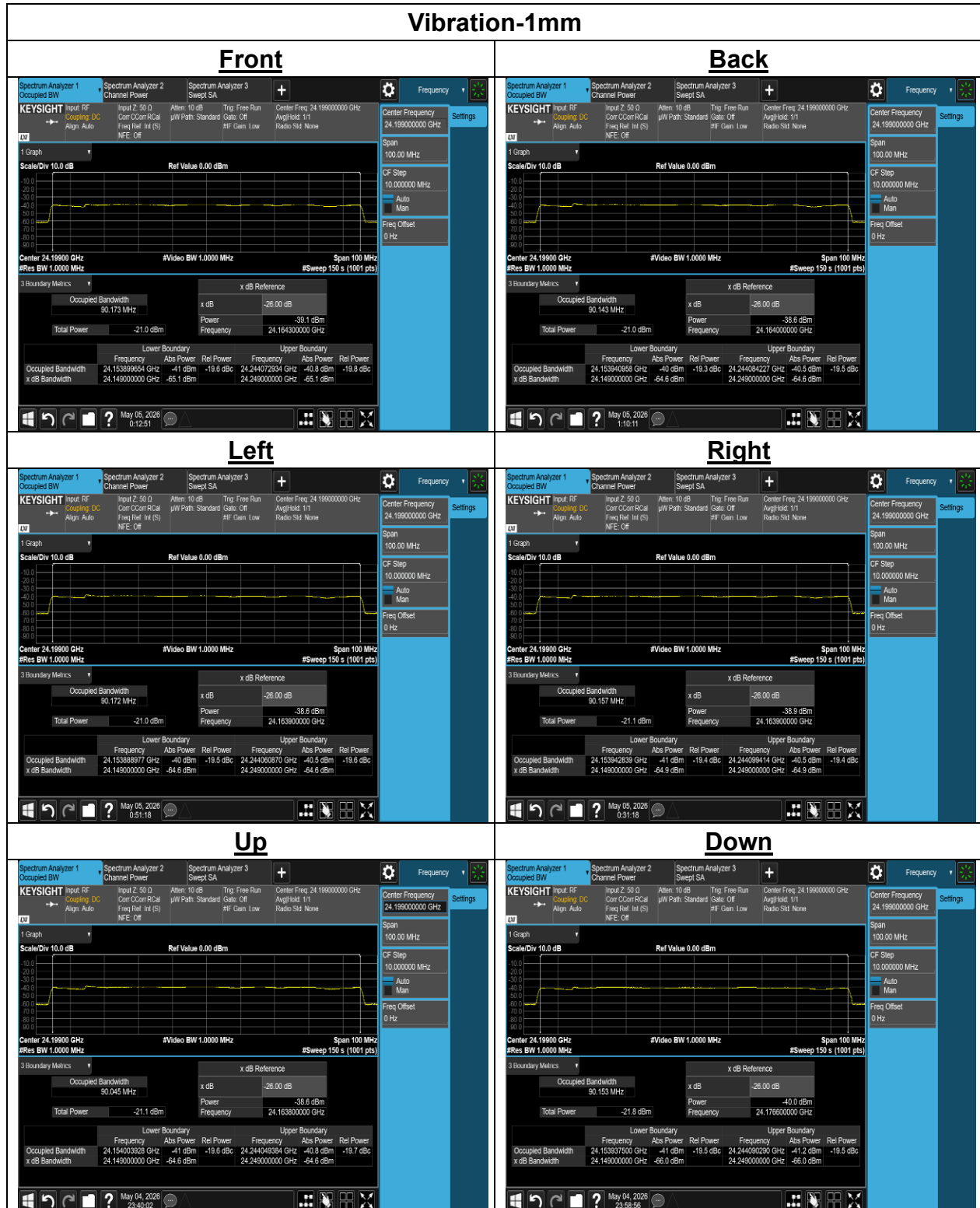
| Frequency Error                   |                   |       |              |              |       |                |
|-----------------------------------|-------------------|-------|--------------|--------------|-------|----------------|
| Frequency Tolerance - Temperature |                   | ----- | Freq. Low    | Freq. High   | ----- | NOTES          |
| 60°C                              | Reading Frequency | GHz   | 24.153946023 | 24.243901027 | Pass  | 24.05~24.25GHz |
| 50°C                              | Reading Frequency |       | 24.153993286 | 24.243960366 | Pass  |                |
| 40°C                              | Reading Frequency |       | 24.154095610 | 24.244037947 | Pass  |                |
| 20°C (Normal)                     | Reading Frequency |       | 24.154181330 | 24.244055103 | Pass  |                |
| 0°C                               | Reading Frequency |       | 24.154295490 | 24.244158772 | Pass  |                |
| -10°C                             | Reading Frequency |       | 24.154354686 | 24.244216963 | Pass  |                |
| -20°C                             | Reading Frequency |       | 24.154376904 | 24.244254320 | Pass  |                |
| Frequency Tolerance - Humidity    |                   | ----- | Freq. Low    | Freq. High   | ----- | NOTES          |
| 35°C/95%                          | Reading Frequency | GHz   | 24.154013871 | 24.243876644 | Pass  | 24.05~24.25GHz |
| Frequency Tolerance-Vibration-1mm |                   | ----- | Freq. Low    | Freq. High   | ----- | NOTES          |
| Front                             | Reading Frequency | GHz   | 24.153899654 | 24.244072934 | Pass  | 24.05~24.25GHz |
| Back                              | Reading Frequency |       | 24.153940958 | 24.244084227 | Pass  |                |
| Left                              | Reading Frequency |       | 24.153888977 | 24.244060870 | Pass  |                |
| Right                             | Reading Frequency |       | 24.153942839 | 24.244099414 | Pass  |                |
| Up                                | Reading Frequency |       | 24.154003928 | 24.244049384 | Pass  |                |
| Down                              | Reading Frequency |       | 24.153937500 | 24.244090290 | Pass  |                |
| Frequency Tolerance-Vibration-3mm |                   | ----- | Freq. Low    | Freq. High   | ----- | NOTES          |
| Front                             | Reading Frequency | GHz   | 24.153986823 | 24.244009746 | Pass  | 24.05~24.25GHz |
| Back                              | Reading Frequency |       | 24.153956949 | 24.243939384 | Pass  |                |
| Left                              | Reading Frequency |       | 24.153913900 | 24.243967935 | Pass  |                |
| Right                             | Reading Frequency |       | 24.153912813 | 24.243976181 | Pass  |                |
| Up                                | Reading Frequency |       | 24.153940958 | 24.244084227 | Pass  |                |
| Down                              | Reading Frequency |       | 24.153951206 | 24.244005287 | Pass  |                |

## TEST PLOTS





## TEST PLOTS

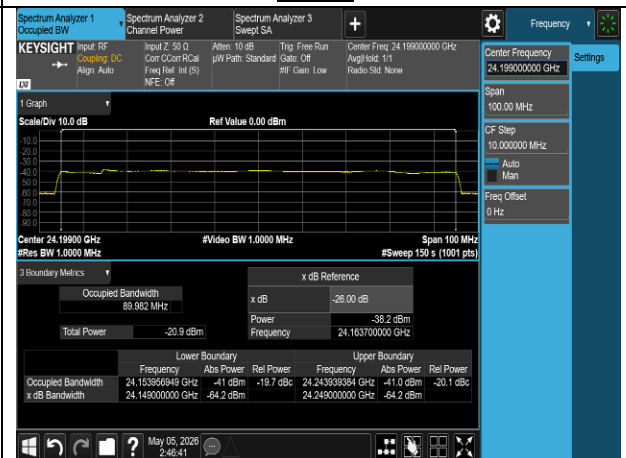


## Vibration-3mm

### Front



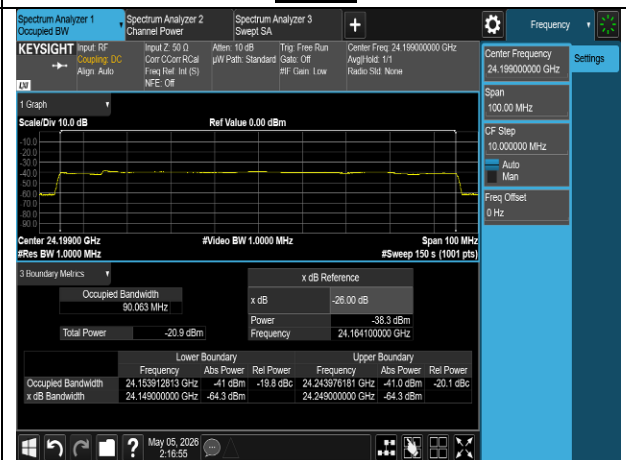
### Back



### Left



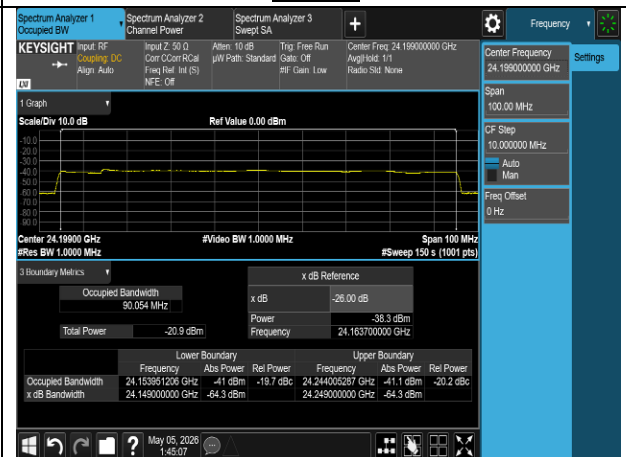
### Right



### Up



### Down



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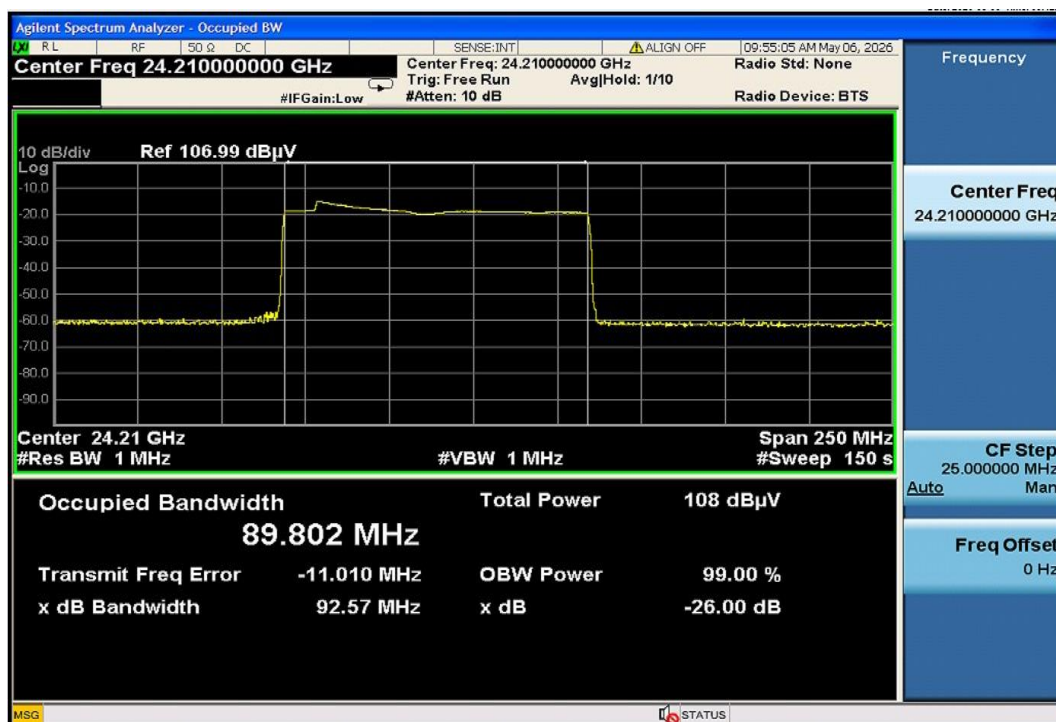
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## 5.3 OCCUPIED BANDWIDTH

| Occupied Bandwidth    |                 |                  |           |           |        |
|-----------------------|-----------------|------------------|-----------|-----------|--------|
| Frequency Range (GHz) | Freq (GHz). Low | Freq (GHz). High | OBW (MHz) | Limit     | Result |
| 24.05~24.25           | 24.154          | 24.244           | 89.8000   | <= 200MHz | PASS   |

## TEST PLOTS

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-06 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/55    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : Vertical   |
| Operation Mode | : OBW             | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |



## 5.4 ANTENNA POWER/ANTENNA POWER TOLERANCE/TRANSMITTER ANTENNA GAIN

|                       |     |         |
|-----------------------|-----|---------|
| Measurement Frequency | GHz | 24.1646 |
|-----------------------|-----|---------|

|                           |     |        |      |         |
|---------------------------|-----|--------|------|---------|
| Occupied Bandwidth        | MHz | 89.8   | PASS | <200MHz |
| RF Output Power           | mW  | 0.2960 | PASS | <20mW   |
| RF Output Power Tolerance | %   | -6.4   | PASS | +50~-50 |
| RF Output Power           | dBm | -5.29  | PASS | <13dBm  |
| EIRP Output Power         | dBm | 1.31   | -    |         |

| Antenna Power Tolerance                                                                                                                                                        |                                |                |                    |                  |               |                 |                        |                       |            |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|--------------------|------------------|---------------|-----------------|------------------------|-----------------------|------------|--------|
| POL                                                                                                                                                                            | Measurement<br>Frequency (GHz) | SG Level (dBm) | Antenna Gain (dBi) | TX Cable<br>(dB) | EIRP<br>(dBm) | Gain of EUT ANT | Antenna<br>Power (dBm) | Antenna<br>Power (mW) | Limit (mW) | Result |
| V                                                                                                                                                                              | 24.2                           | -12.42         | 12.7               | 6.09             | -5.81         | 6.60            | -12.41                 | 0.06                  | <=20       | Pass   |
| H                                                                                                                                                                              | 24.2                           | -5.30          | 12.7               | 6.09             | 1.31          |                 | -5.29                  | 0.30                  | <=20       | Pass   |
| <div><math display="block">P = P_{\text{B}} \times (T / B)</math><math display="block">T = \text{バースト繰り返し周期 (s)}</math><math display="block">B = \text{バースト長 (s)}</math></div> |                                |                |                    |                  |               |                 |                        |                       |            |        |

### Note:

1. Refer to the following for the worst mode.
2. EIRP=SG Level(Inclusive duty factor) + Antenna gain - cable loss  
Antenna power=EIRP- Antenna gain(EUT)

## 5.5 SPURIOUS EMISSION STRENGTH, OUT-BAND AREA/UNWANTED EMISSION STRENGTH, SPURIOUS AREA

| Measurement Frequency          | GHz                                | 24.1646          |                       |             |          |        |
|--------------------------------|------------------------------------|------------------|-----------------------|-------------|----------|--------|
| -                              | 966A EIRP 30M~18G @3m, 18G~40G @1m |                  |                       |             |          |        |
| Transmitter Spurious Emissions | POL                                | Worst Freq.(MHz) | Worst Level (dBm/MHz) | Worst Level | Limit    | Result |
|                                |                                    |                  |                       | (uW/MHz)    | (uW/MHz) |        |
| Under 1GHz                     | V                                  | 170.8            | -61.3                 | 0.0007      | 2.5      | PASS   |
|                                | H                                  | 131.2            | -53.22                | 0.0048      |          | PASS   |
| 1GHz~18GHz                     | V                                  | 1875             | -52.42                | 0.0057      |          | PASS   |
|                                | H                                  | 4625             | -52.38                | 0.0058      |          | PASS   |
| 18GHz~40GHz                    | V                                  | 28527            | -52.72                | 0.0053      |          | PASS   |
|                                | H                                  | 26715            | -53.18                | 0.0048      |          | PASS   |

| Tx Spurious             |                                |                   |                           |          |       |       |                            |                           |                |        |
|-------------------------|--------------------------------|-------------------|---------------------------|----------|-------|-------|----------------------------|---------------------------|----------------|--------|
| Measurement Frequency   |                                | GHz               |                           |          |       |       |                            |                           |                |        |
| Measurement distance(D) | Transmitter Spurious Emissions | Worst Freq. (GHz) | Measurement Level(dBuV/m) | AF(dB/m) | Mixer | Cable | Worst EIRP Level (dBm/MHz) | Worst EIRP Level (uW/MHz) | Limit (uW/MHz) | Result |
| 0.5                     | 40GHz~50GHz                    | 44.91             | 17.6                      | 42.40    | 15.53 | 6.24  | -29.02                     | 1.252                     | 2.50           | Pass   |

Note:

1. below 40GHz

Use substitution method for measurement.

EIRP=SG output level(Contains duty factor)+ Antenna gain(receive test antenna)-cable loss

Margin=Limit-EIRP

2. above 40GHz

Factor= AF(dB/m)+ Mixer loss + Cable loss+20\*log(d)-104.77

EIPR=Measurement level(dBuV/m)+Factor

Antenna Power=EIRP[dBm]-Gain of the EUT Antenna

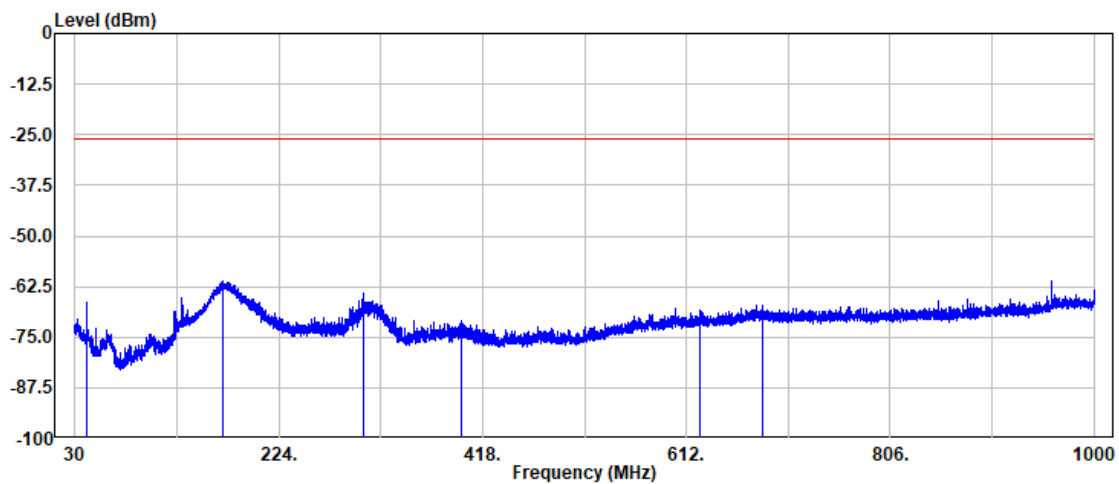
|                                           |                              |                  |                       |             |          |        |
|-------------------------------------------|------------------------------|------------------|-----------------------|-------------|----------|--------|
| Measurement Frequency                     | GHz                          | 24.1646          |                       |             |          |        |
| -                                         | follow 966A EIRP 30M~40G @3m |                  |                       |             |          |        |
| <i><b>Receiver Spurious Emissions</b></i> | POL                          | Worst Freq.(MHz) | Worst Level (dBm/MHz) | Worst Level | Limit    | Result |
|                                           |                              |                  |                       | (uW/MHz)    | (uW/MHz) |        |
| Under 1GHz                                | V                            | 168.2            | -61.85                | 0.0007      | 2.5      | PASS   |
|                                           | H                            | 131.19           | -54.39                | 0.0036      |          | PASS   |
| 1GHz~40GHz                                | V                            | 26720            | -53.5                 | 0.0045      |          | PASS   |
|                                           | H                            | 26750            | -52.37                | 0.0058      |          | PASS   |

| Rx Spurious             |                             |                   |                           |          |       |       |                            |                           |                |        |
|-------------------------|-----------------------------|-------------------|---------------------------|----------|-------|-------|----------------------------|---------------------------|----------------|--------|
| Measurement Frequency   |                             | GHz               |                           |          |       |       |                            |                           |                |        |
| Measurement distance(D) | Receiver Spurious Emissions | Worst Freq. (GHz) | Measurement Level(dBuV/m) | AF(dB/m) | Mixer | Cable | Worst EIRP Level (dBm/MHz) | Worst EIRP Level (uW/MHz) | Limit (uW/MHz) | Result |
| 0.5                     | 40GHz~50GHz                 | 44.21             | 17.06                     | 42.2     | 16.05 | 6.21  | -29.27                     | 1.183                     | 2.50           | Pass   |

## TEST PLOT: TX Spurious

### 30MHz ~ 1GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : VERTICAL   |
| Operation Mode | : TX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

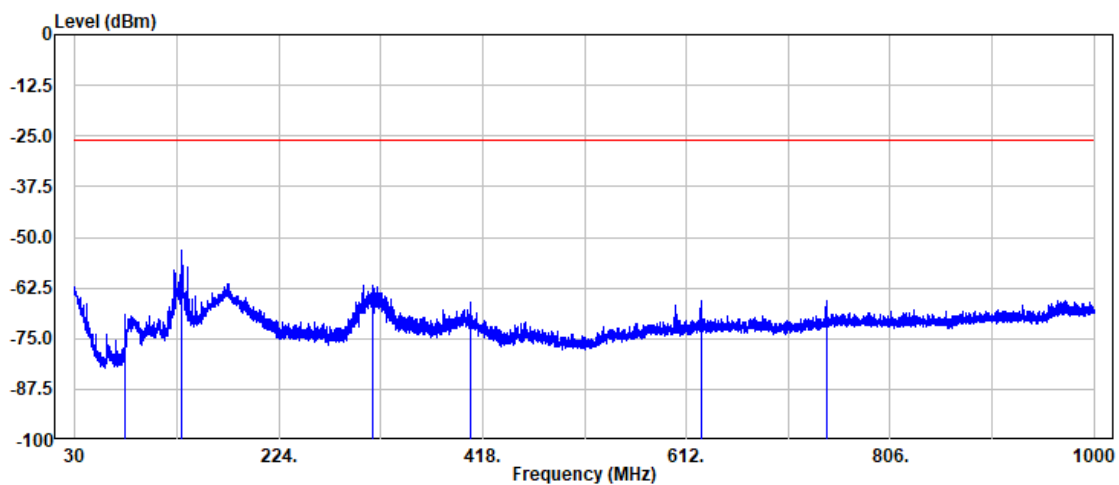


| Freq   | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|--------|----------|-----------------|--------------|------------|--------|--------|
| -----  | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz    | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 41.20  | -66.59   | -50.14          | -16.21       | 0.24       | -26.02 | -40.57 |
| 170.80 | -61.30   | -58.10          | -2.71        | 0.49       | -26.02 | -35.28 |
| 304.00 | -64.31   | -64.17          | 0.53         | 0.67       | -26.02 | -38.29 |
| 398.30 | -71.07   | -71.10          | 0.80         | 0.77       | -26.02 | -45.05 |
| 625.10 | -68.22   | -68.13          | 0.88         | 0.97       | -26.02 | -42.20 |
| 684.20 | -67.31   | -67.37          | 1.08         | 1.02       | -26.02 | -41.29 |

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|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : TX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |



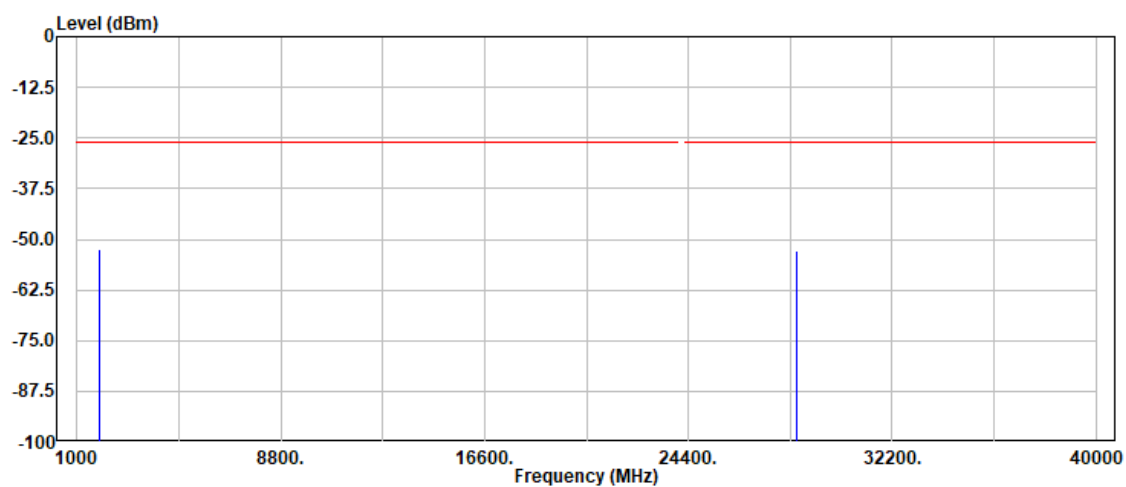
| Freq   | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|--------|----------|-----------------|--------------|------------|--------|--------|
| -----  | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz    | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 77.90  | -69.09   | -63.16          | -5.59        | 0.34       | -26.02 | -43.07 |
| 131.20 | -53.22   | -45.70          | -7.09        | 0.43       | -26.02 | -27.20 |
| 313.00 | -61.76   | -61.62          | 0.54         | 0.68       | -26.02 | -35.74 |
| 406.40 | -65.86   | -65.76          | 0.68         | 0.78       | -26.02 | -39.84 |
| 626.70 | -65.54   | -65.44          | 0.87         | 0.97       | -26.02 | -39.52 |
| 745.30 | -65.68   | -65.62          | 1.00         | 1.06       | -26.02 | -39.66 |

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## 1GHz ~ 40GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : VERTICAL   |
| Operation Mode | : TX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

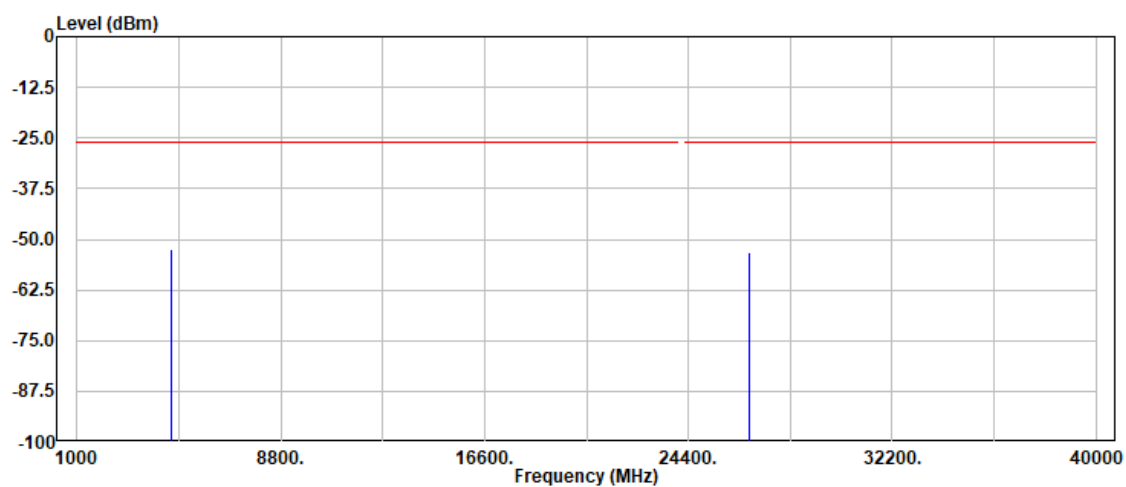


| Freq     | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|----------|----------|-----------------|--------------|------------|--------|--------|
| -----    | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz      | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 1875.00  | -52.42   | -55.35          | 4.60         | 1.67       | -26.02 | -26.40 |
| 28527.00 | -52.72   | -59.18          | 13.36        | 6.90       | -26.02 | -26.70 |

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|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : TX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |



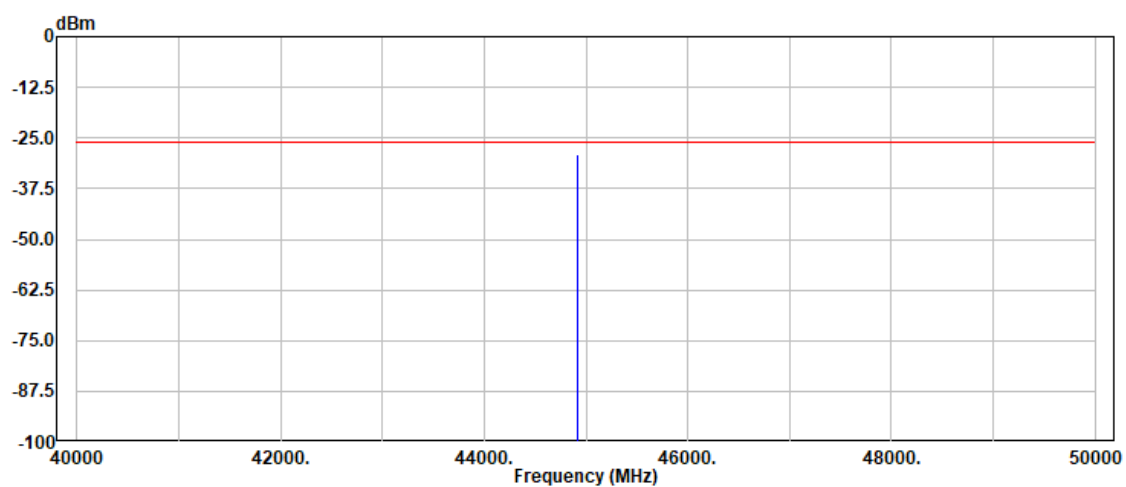
| Freq     | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|----------|----------|-----------------|--------------|------------|--------|--------|
| -----    | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz      | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 4625.00  | -52.38   | -58.73          | 9.00         | 2.65       | -26.02 | -26.36 |
| 26715.00 | -53.18   | -59.06          | 12.52        | 6.64       | -26.02 | -27.16 |

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## 40GHz ~ 50GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : TX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

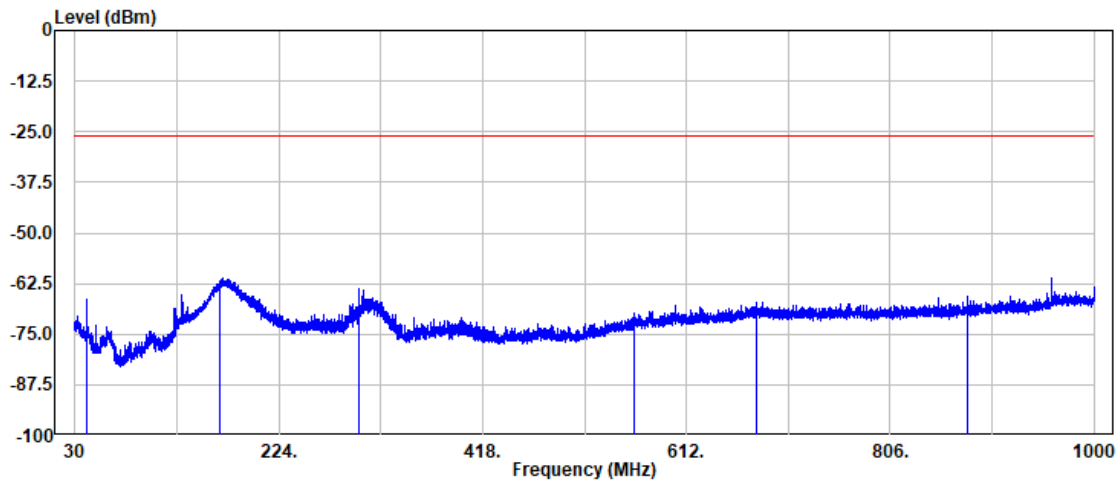


| Freq     | Read Level | Factor | Actual FS | Limit  | Margin | Detector Mode |
|----------|------------|--------|-----------|--------|--------|---------------|
| -----    | -----      | -----  | -----     | -----  | -----  | -----         |
| MHz      | dBuV       | dB     | dBm       | dBm    | dB     | PK/QP/AV      |
| 44910.00 | 17.60      | -46.62 | -29.02    | -26.02 | -3.00  | Peak          |

## TEST PLOT: RX Spurious

### 30MHz ~ 1GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : VERTICAL   |
| Operation Mode | : RX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

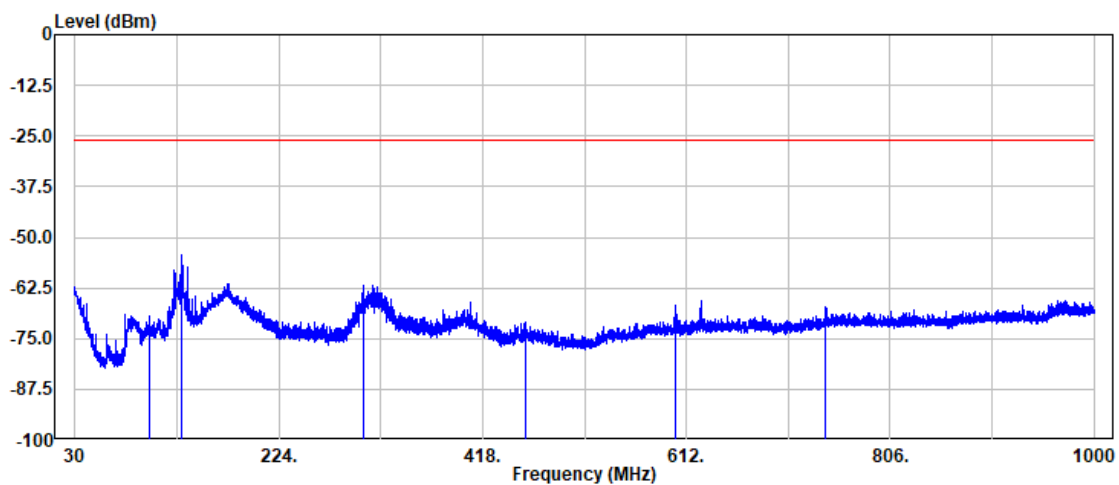


| Freq   | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|--------|----------|-----------------|--------------|------------|--------|--------|
| -----  | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz    | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 41.31  | -66.88   | -50.48          | -16.16       | 0.24       | -26.02 | -40.86 |
| 168.20 | -61.85   | -58.44          | -2.93        | 0.48       | -26.02 | -35.83 |
| 299.70 | -65.94   | -65.76          | 0.49         | 0.67       | -26.02 | -39.92 |
| 562.80 | -69.75   | -69.64          | 0.81         | 0.92       | -26.02 | -43.73 |
| 678.50 | -67.27   | -67.32          | 1.06         | 1.01       | -26.02 | -41.25 |
| 880.00 | -65.72   | -65.62          | 1.05         | 1.15       | -26.02 | -39.70 |

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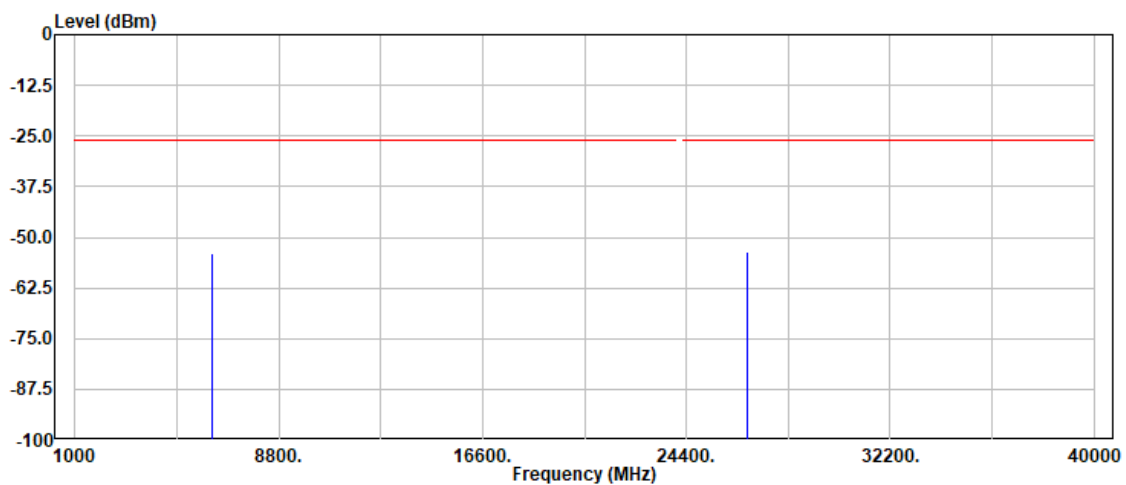
|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : RX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |



| Freq   | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|--------|----------|-----------------|--------------|------------|--------|--------|
| -----  | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz    | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 101.40 | -69.33   | -62.55          | -6.40        | 0.38       | -26.02 | -43.31 |
| 131.19 | -54.39   | -46.87          | -7.09        | 0.43       | -26.02 | -28.37 |
| 304.00 | -62.06   | -61.92          | 0.53         | 0.67       | -26.02 | -36.04 |
| 458.50 | -70.91   | -70.52          | 0.44         | 0.83       | -26.02 | -44.89 |
| 602.20 | -66.66   | -67.27          | 1.56         | 0.95       | -26.02 | -40.64 |
| 744.10 | -67.00   | -66.95          | 1.01         | 1.06       | -26.02 | -40.98 |

## 1GHz ~ 40GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : VERTICAL   |
| Operation Mode | : RX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

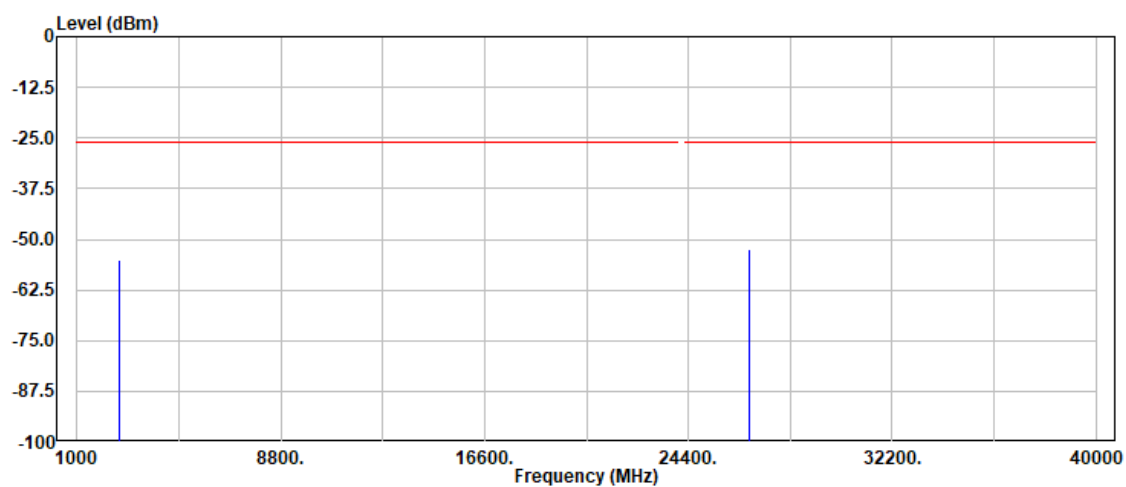


| Freq     | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|----------|----------|-----------------|--------------|------------|--------|--------|
| -----    | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz      | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 6250.00  | -53.92   | -61.12          | 10.30        | 3.10       | -26.02 | -27.90 |
| 26720.00 | -53.50   | -59.38          | 12.53        | 6.65       | -26.02 | -27.48 |

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|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : RX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |



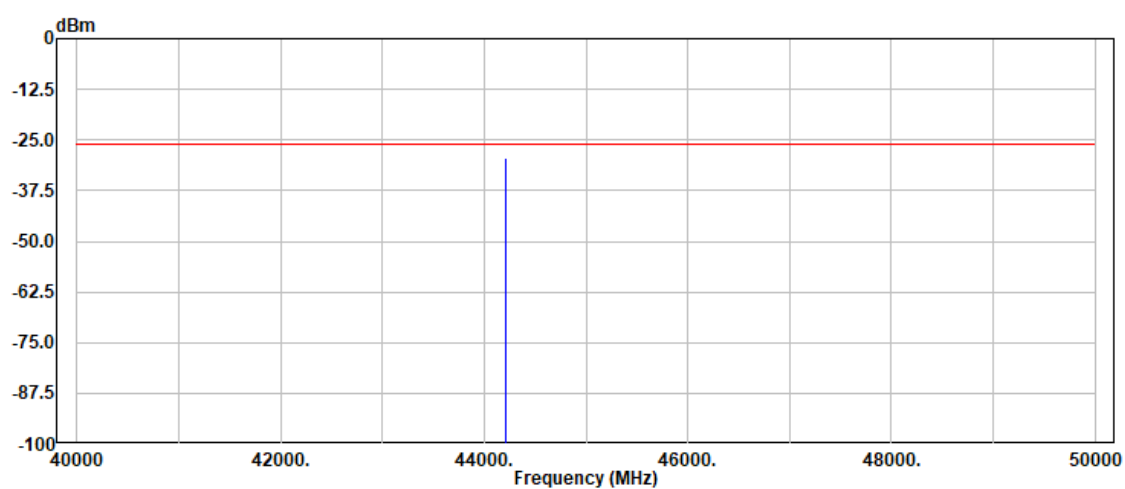
| Freq     | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit  | Margin |
|----------|----------|-----------------|--------------|------------|--------|--------|
| -----    | -----    | -----           | -----        | -----      | -----  | -----  |
| MHz      | dBm      | dBm             | dBi/dBd      | dB         | dBm    |        |
| 2625.00  | -55.28   | -59.40          | 6.10         | 1.98       | -26.02 | -29.26 |
| 26750.00 | -52.37   | -58.31          | 12.60        | 6.66       | -26.02 | -26.35 |

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## 40GHz ~ 50GHz

|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Project No     | : TM-2602000265P  | Test Date    | : 2026-05-07 |
| Operation Band | : Radar           | Temp./Humi.  | : 25.6/53    |
| Frequency      | : 24.15~24.24 GHz | Antenna Pol. | : HORIZONTAL |
| Operation Mode | : RX              | Engineer     | : Tony.Chao  |
| EUT Pol        | : H               | Test Chamber | : 966A       |
| Setting        | :                 |              |              |

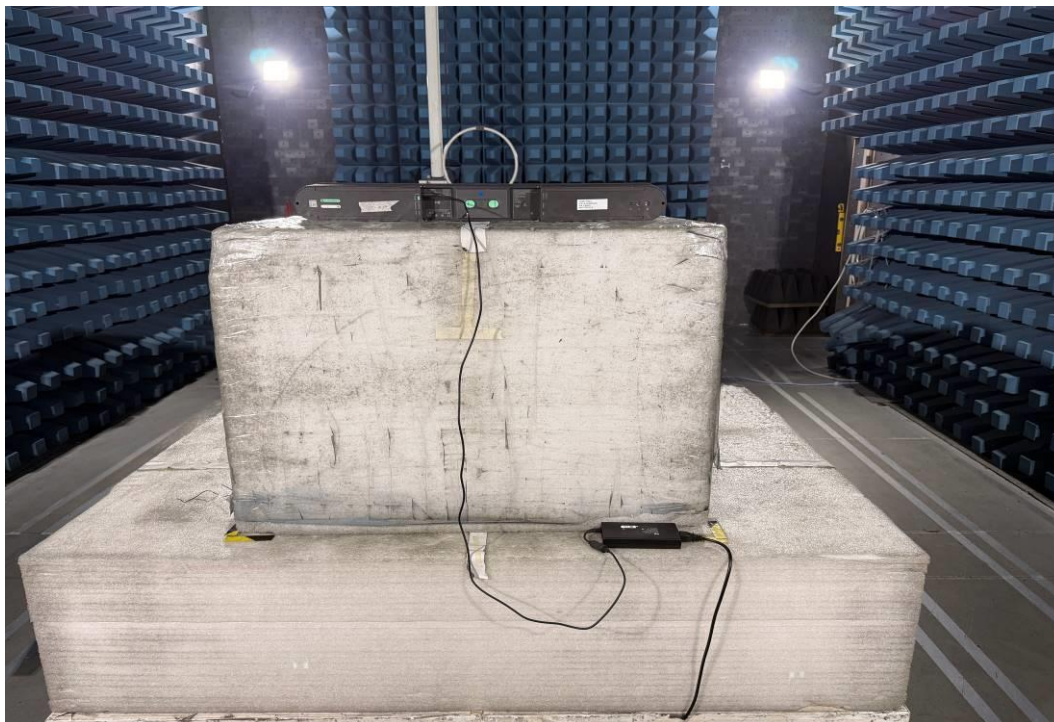


| Freq     | Read Level | Factor | Actual FS | Limit  | Margin | Detector Mode |
|----------|------------|--------|-----------|--------|--------|---------------|
| -----    | -----      | -----  | -----     | -----  | -----  | -----         |
| MHz      | dBuV       | dB     | dBm       | dBm    | dB     | PK/QP/AV      |
| 44210.00 | 17.06      | -46.33 | -29.27    | -26.02 | -3.25  | Peak          |

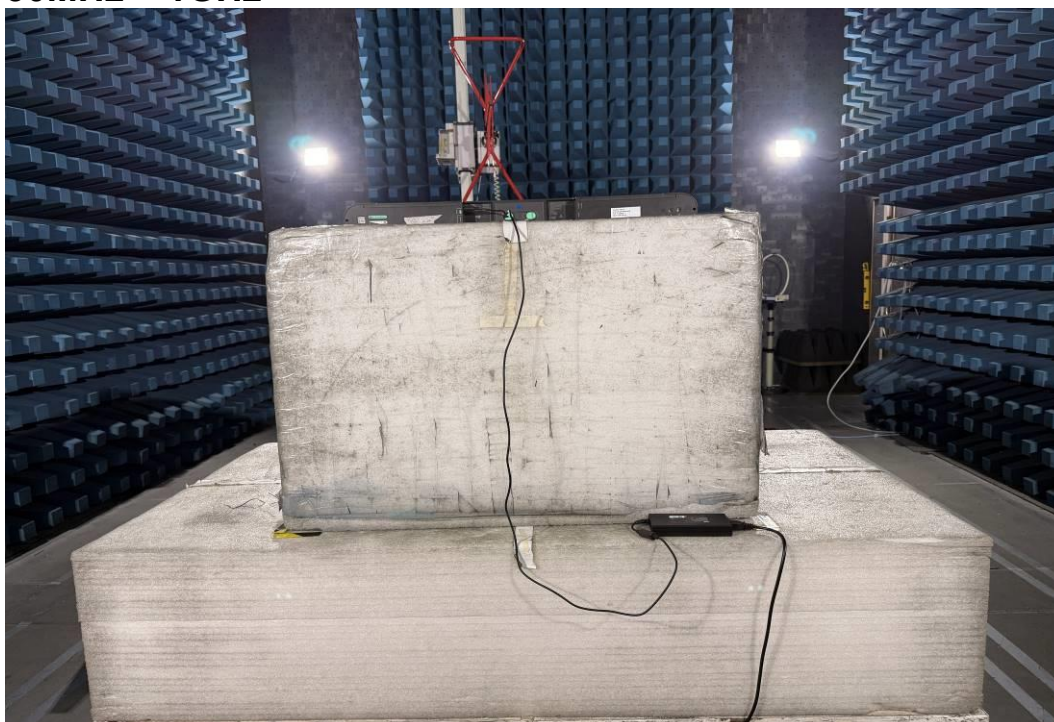
- End of Test Report -

## APPENDIX A - PHOTOGRAPHS OF TEST SETUP

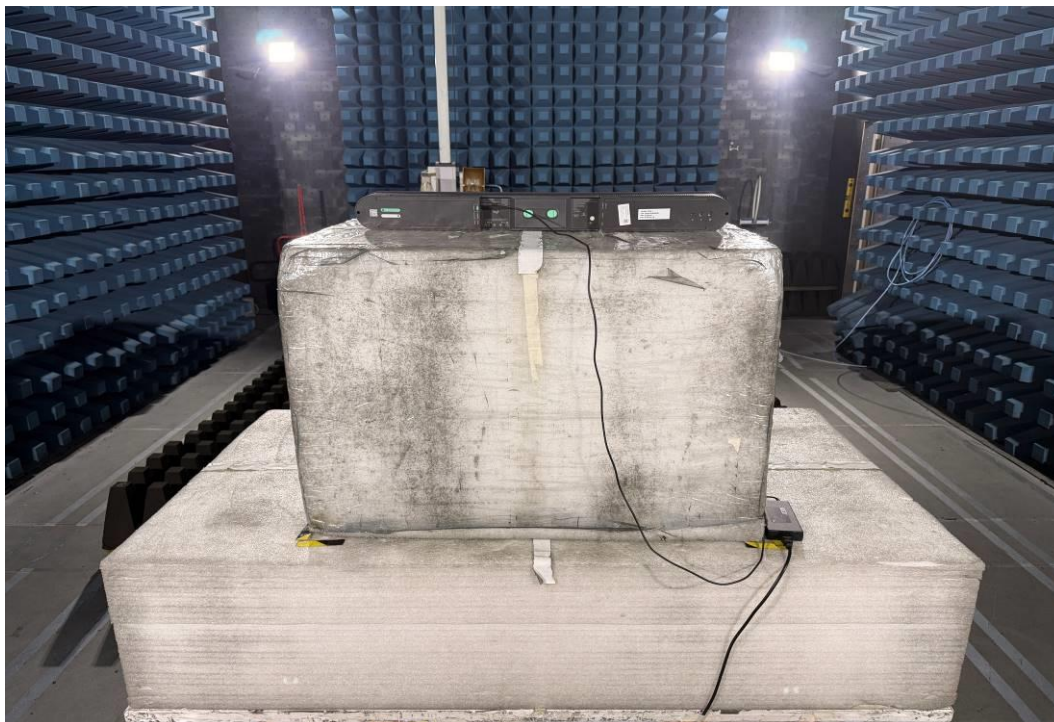
### 9kHz ~ 30MHz



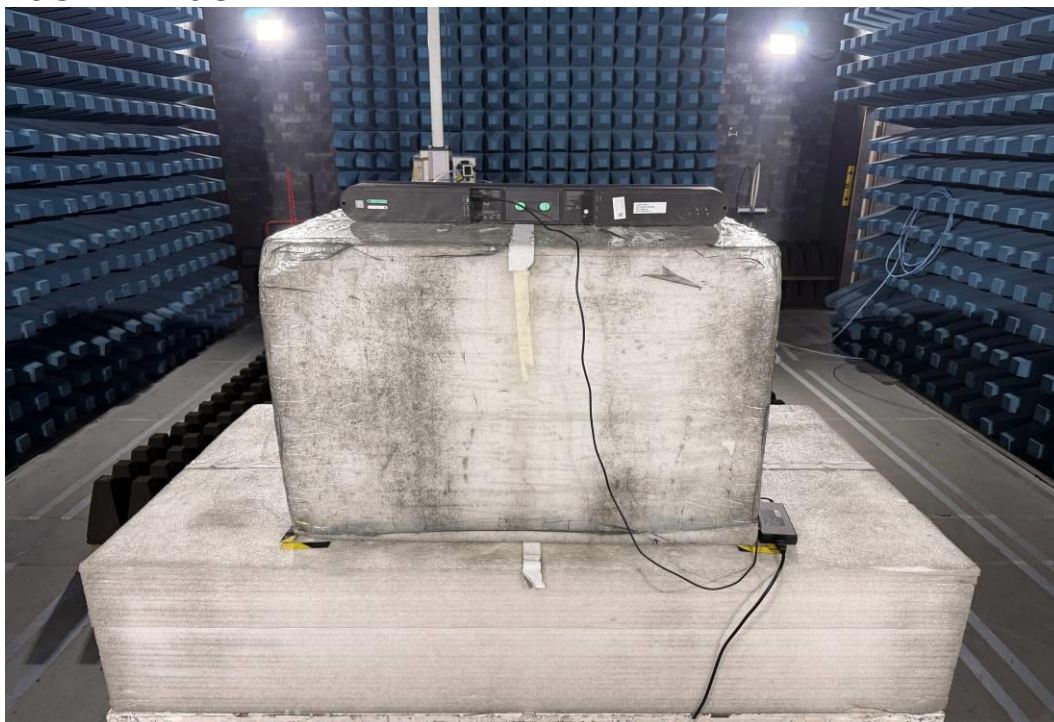
### 30MHz ~ 1GHz



## 1GHz ~ 18GHz



## 18GHz ~ 40GHz



## 40GHz ~ 50GHz



## Conducted

