# FCC Co-Location Test Report

| | | |
|---|---|---|
| **FCC ID** | : | **MXF-W1700K2** |
| **Equipment** | : | **Wi-Fi 7 Router** |
| **Model No.** | : | **W1700K** |
| **Brand Name** | : | **Q Fiber** |
| **Applicant** | : | **Gemtek Technology Co., Ltd.** |
| **Address** | : | **No. 15-1 Zhonghua Road, Hsinchu Industrial Park, Hukou, Hsinchu, Taiwan, 30352.** |
| **Standard** | : | **47 CFR FCC Part 15.247**<br>**47 CFR FCC Part 15.407** |
| **Received Date** | : | **May 07, 2025** |
| **Tested Date** | : | **May 21 ~ Jun. 13, 2025** |

**We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.**

| **Reviewed by:** | **Approved by:** |
|---|---|
| **Along Chen / Assistant Manager** | **Gary Chang / Manager** |

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# Release Record

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR560201CO | Rev. 01 | Initial issue | Sep. 02, 2025 |

# Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|---|---|---|---|
| 15.247(d)<br>15.407(b)<br>15.209 | Radiated Emissions | [dBuV/m at 3m]: 45.52MHz<br>36.72 (Margin -3.28dB) - QP | Pass |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| WLAN | |
|---|---|
| **Operating Frequency** | 802.11b/g/n/ax/be: 2412 MHz ~ 2462 MHz<br>802.11a/n/ac/ax/be: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;<br>5500 MHz ~ 5720 MHz, 5745 ~ 5825 MHz<br>5955 MHz ~ 7115 MHz |
| **Modulation Type** | 802.11b: DSSS (DBPSK / DQPSK / CCK)<br>802.11a/g/n/ac/ax/be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM/ 4096QAM) |
| **BT** | |
| **Operating Frequency** | 2402 MHz ~ 2480 MHz |
| **Modulaton Type** | Bluetooth 4.0 LE: GFSK<br>Bluetooth BR(1Mbps): GFSK<br>Bluetooth EDR (2Mbps): π/4-DQPSK<br>Bluetooth EDR (3Mbps): 8-DPSK |

### 1.1.2 Antenna Details

**BT / Thread**

| Ant. No. | Type | Connector | Gain (dBi) | Remarks |
|---|---|---|---|---|
| 1 | PIFA | N/A | 2.94 | --- |

Wi-Fi 2.4GHz / 5GHz

| Brand | Model | Type | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 2400~2483.5 | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| Gemtek | WAPE-269BE_Dual_Ant1 | PIFA | UFL | 3.01 | 2.84 | 2.71 | 2.09 | 2.21 |
| Gemtek | WAPE-269BE_Dual_Ant2 | PIFA | UFL | 2.64 | 1.9 | 1.96 | 1.55 | 1.43 |
| Gemtek | WAPE-269BE_Dual_Ant3 | PIFA | UFL | 2.43 | 2.92 | 1.75 | 1.59 | 2.03 |
| Gemtek | WAPE-269BE_Dual_Ant4 | PIFA | UFL | 1.89 | 1.63 | 1.84 | 1.63 | 1.48 |
| Gemtek | WAPE-269BE_DFS | PIFA | UFL | - | 4.34 | 4.42 | 4.41 | 4.43 |

Wi-Fi 6GHz

| Brand | Model | Type | Connector | Operating Frequencies (MHz) / Gain (dBi) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 5925~6425 | 6425~6525 | 6525~6875 | 6875~7125 |
| Gemtek | WAPE-269BE_6E_Ant1 | PIFA | UFL | 1.32 | 2.27 | 2.26 | 2.28 |
| Gemtek | WAPE-269BE_6E_Ant2 | PIFA | UFL | 2.35 | 2.04 | 2.75 | 2.18 |
| Gemtek | WAPE-269BE_6E_Ant3 | PIFA | UFL | 3.32 | 2.11 | 3.14 | 1.94 |
| Gemtek | WAPE-269BE_6E_Ant4 | PIFA | UFL | 2.73 | 2.08 | 2.6 | 2.08 |
| Gemtek | WAPE-269BE_6E_Ant5 | PIFA | UFL | 4.29 | 4.48 | 4.39 | 4.43 |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

| Power Supply Type | 12Vdc from AC adapter |
|---|---|

### 1.1.4 Accessories

| Accessories | | |
|---|---|---|
| **No.** | **Equipment** | **Description** |
| 1 | AC adapter | Brand: LUCENT TRANS ELECTRONICS CO., LTD.<br>Model: 1A133-LHHL<br>I/P: 100-120Vac, 50/60Hz, 1.4A<br>O/P: 12V⎓4.0A, 48.0W<br>Power Line: 1.8m non-shielded without core |
| 2 | AC adapter | Brand: MOSO<br>Model: MS-V4000R120-050A0-US<br>I/P: 100-120Vac, 50/60Hz, 1.3A max<br>O/P: 12V⎓4.0A, 48.0W<br>Power Line: 1.8m non-shielded without core |
| 3 | Fan | Brand: Power Logic Technology Inc.<br>Model: PLA06010S12M<br>Rating: 12Vdc, max.0.15A, max.1.8W |
| 4 | Fan | Brand: Shenzhen fuzhineng Electronics Co., Ltd<br>Model: FDF6010S12M<br>Rating: 12Vdc, max.0.18A, max.1.32W |

## 1.2 The Equipment List

| Test Item | Radiated Emission | | | | |
|---|---|---|---|---|---|
| Test Site | 966 chamber1 / (03CH01-WS) | | | | |
| Tested Date | May 21 ~ Jun. 06, 2025 | | | | |
| **Instrument** | **Brand** | **Model No.** | **Serial No.** | **Calibration Date** | **Calibration Until** |
| Receiver | R&S | ESR3 | 101657 | Mar. 11, 2025 | Mar. 10, 2026 |
| Spectrum Analyzer | R&S | FSV40 | 101498 | Nov. 12, 2024 | Nov. 11, 2025 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 05, 2024 | Nov. 04, 2025 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-522 | Aug. 09, 2024 | Aug. 08, 2025 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1096 | Nov. 28, 2024 | Nov. 27, 2025 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170517 | Nov. 18, 2024 | Nov. 17, 2025 |
| Preamplifier | EMC | EMC02325 | 980225 | Jun. 17, 2024 | Jun. 16, 2025 |
| Preamplifier | EMC | EMC118A45SE | 980898 | Jul. 05, 2024 | Jul. 04, 2025 |
| Preamplifier | EMC | EMC184045SE | 980903 | Jul. 30, 2024 | Jul. 29, 2025 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Oct. 02, 2024 | Oct. 01, 2025 |
| LF cable 3M | Woken | CFD400NL-LW | CFD400NL-001 | Oct. 02, 2024 | Oct. 01, 2025 |
| LF cable 11M | EMC | EMCCFD400-NW-NW-11000 | 200801 | Oct. 02, 2024 | Oct. 01, 2025 |
| LF cable 1M | EMC | EMCCFD400-NM-NM-1000 | 160502 | Oct. 02, 2024 | Oct. 01, 2025 |
| RF Cable | EMC | EMC104-35M-35M-8000 | 210920 | Oct. 02, 2024 | Oct. 01, 2025 |
| RF Cable | EMC | EMC104-35M-35M-3000 | 210922 | Oct. 02, 2024 | Oct. 01, 2025 |
| Attenuator | Pasternack | PE7005-10 | 10-1 | Oct. 02, 2024 | Oct. 01, 2025 |
| HIGHPASS FILTER 3.1-18G | WHK | WHK3.1/18G-10SS | 39 | Oct. 02, 2024 | Oct. 01, 2025 |
| HIGHPASS FILTER 7.5-18G | STI | STI15-9722 | STI-HP7.5G-A | Oct. 02, 2024 | Oct. 01, 2025 |
| Measurement Software | Sporton | SENSE-EMI | V5.11 | NA | NA |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

| Test Item | RF Conducted | | | | |
|---|---|---|---|---|---|
| Test Site | (TH01-WS) | | | | |
| Tested Date | Jun. 13, 2025 | | | | |
| **Instrument** | **Brand** | **Model No.** | **Serial No.** | **Calibration Date** | **Calibration Until** |
| Spectrum Analyzer | R&S | FSV3044 | 101516 | Jun. 09, 2025 | Jun. 08, 2026 |
| Power Meter | Anritsu | ML2495A | 1241002 | Nov. 26, 2024 | Nov. 25, 2025 |
| Power Sensor | Anritsu | MA2411B | 1207366 | Nov. 26, 2024 | Nov. 25, 2025 |
| Attenuator | Pasternack | PE7005-10 | 10-2 | Oct. 04, 2024 | Oct. 03, 2025 |
| Note: Calibration Interval of instruments listed above is one year. | | | | | |

## 1.3 Test Standards

47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
ANSI C63.10-2020
ANSI C63.4-2014 + C63.4a-2017

## 1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

## 1.5 Deviation from Test Standard and Measurement Procedure

None

## 1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

| Measurement Uncertainty | |
|---|---|
| **Parameters** | **Uncertainty** |
| Unwanted Emission ≤ 1GHz | ±3.41 dB |
| Unwanted Emission > 1GHz | ±4.59 dB |

# 2 Test Configuration

## 2.1 Testing Facility

| | |
|---|---|
| **Test Laboratory** | International Certification Corporation |
| **Test Site** | 03CH01-WS, TH01-WS |
| **Address of Test Site** | No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) |

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

## 2.2 The Worst Test Modes and Channel Details

| Test item | Modulation Mode |
|---|---|
| Unwanted Emissions | Mode1: 2.4G EHT20 CH06 + 5G 11A CH149 + 6G EHT320 CH159<br>Mode2: BLE 1M CH39 + 5G 11A CH149 + 6G EHT320 CH159 |
| Conducted Emissions | Mode1:2.4G EHT20 CH06 + 5G 11A CH149 + 6G EHT320 CH159 |
| **NOTE:** The selected channel is the maximum power channel of Wi-Fi mode + BT mode. | |

# 3 Transmitter Test Results

## 3.1 Unwanted Emissions into Restricted Frequency Bands

### 3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions Limit | | | |
|---|---|---|---|
| **Frequency Range (MHz)** | **Field Strength (uV/m)** | **Field Strength (dBuV/m)** | **Measure Distance (m)** |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

**Note 1:**
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
**Note 2:**
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

| Un-restricted band emissions above 1GHz Limit | |
|---|---|
| **Operating Band** | **Limit** |
| 5.15 - 5.25 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.725 - 5.850 GHz | All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |
| Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). | |

| Un-restricted band emissions above 1GHz Limit | | |
|---|---|---|
| **Operating Band** | **PK Limit** | **AV Limit** |
| 5.925 – 7.125 GHz | e.i.r.p. -7 dBm [88.2 dBuV/m@3m] | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). | | |

### 3.1.2 Test Procedures

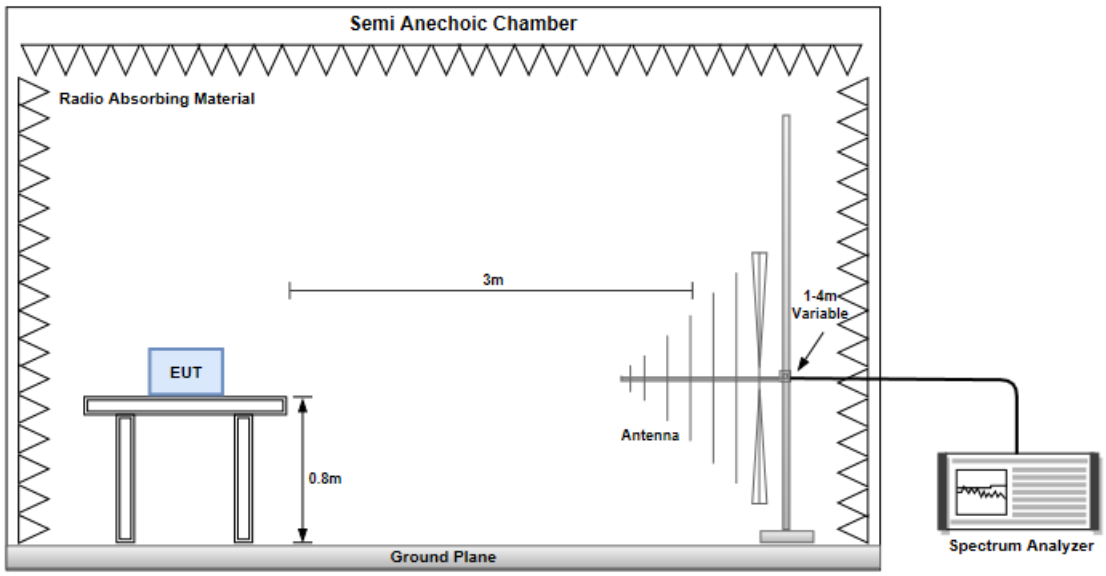
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

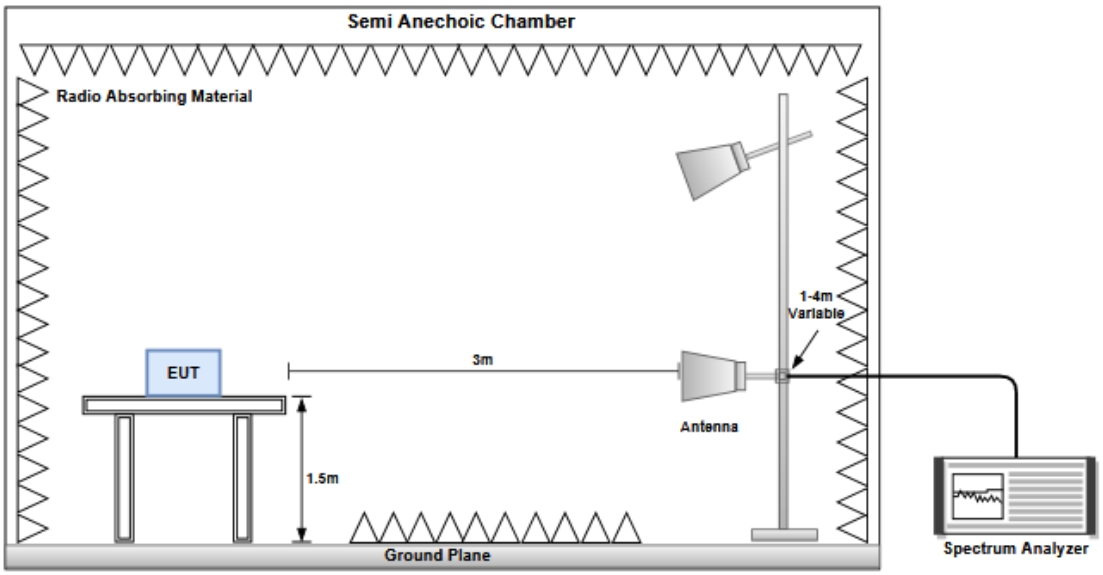
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.1.3 Test Setup

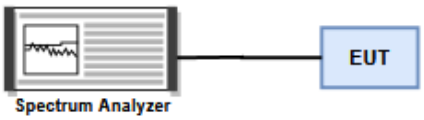
**Radiated Emissions below 1 GHz**




**Radiated Emissions above 1 GHz**




**Conducted Unwanted Emissions (30MHz~40GHz)**

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### 3.1.4 Test Results

| Ambient Condition | 23-24°C / 63-66% | Tested By | Allen Lee / Brad Wu |
|---|---|---|---|

Refer to Appendix A.

# 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

**Linkou**

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

**Kwei Shan**

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

**Kwei Shan Site II**

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

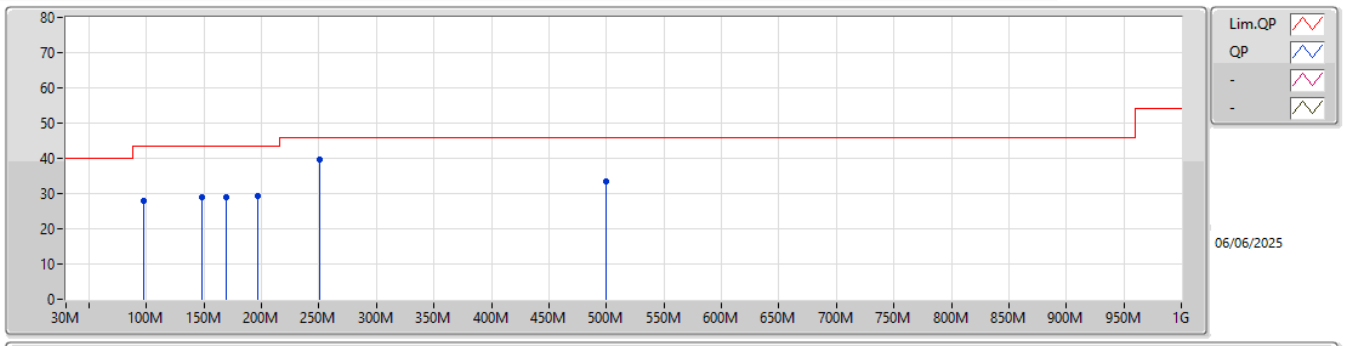
Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

**==END==**

**Summary**

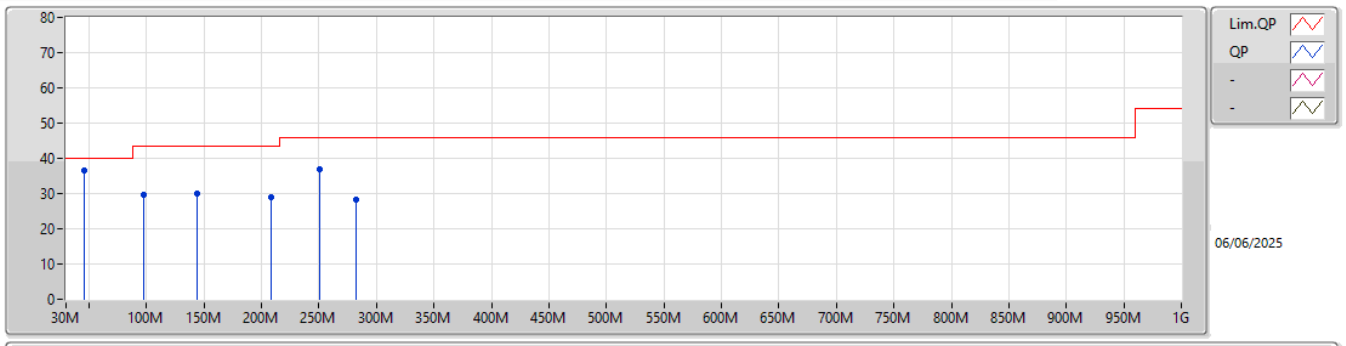
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 45.52M | 36.72 | 40.00 | -3.28 | Vertical |
| Mode 2 | Pass | QP | 45.52M | 36.61 | 40.00 | -3.39 | Vertical |

**Mode 1**



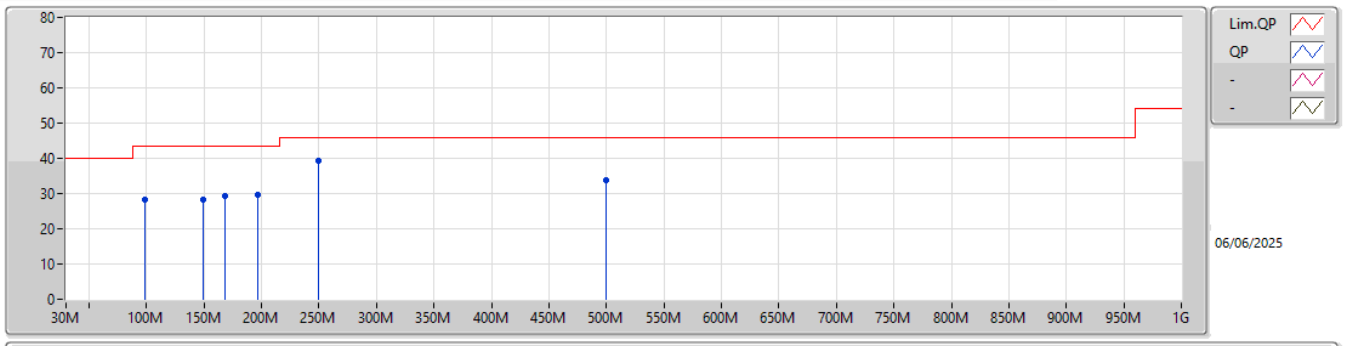

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| PK | 97.9M | 27.77 | 43.50 | -15.73 | -13.52 | 3 | Horizontal | - | - | - | 41.29 | 13.69 | 1.02 | 28.23 |
| PK | 148.34M | 28.82 | 43.50 | -14.68 | -8.78 | 3 | Horizontal | - | - | - | 37.60 | 18.27 | 1.20 | 28.25 |
| PK | 169.68M | 28.91 | 43.50 | -14.59 | -9.13 | 3 | Horizontal | - | - | - | 38.04 | 17.83 | 1.30 | 28.26 |
| PK | 196.84M | 29.42 | 43.50 | -14.08 | -11.46 | 3 | Horizontal | - | - | - | 40.88 | 15.42 | 1.40 | 28.28 |
| PK | 250.19M | 39.62 | 46.00 | -6.38 | -9.77 | 3 | Horizontal | - | - | - | 49.39 | 16.91 | 1.57 | 28.25 |
| PK | 499.48M | 33.41 | 46.00 | -12.59 | -3.36 | 3 | Horizontal | - | - | - | 36.77 | 22.80 | 2.04 | 28.20 |

**Mode 1**



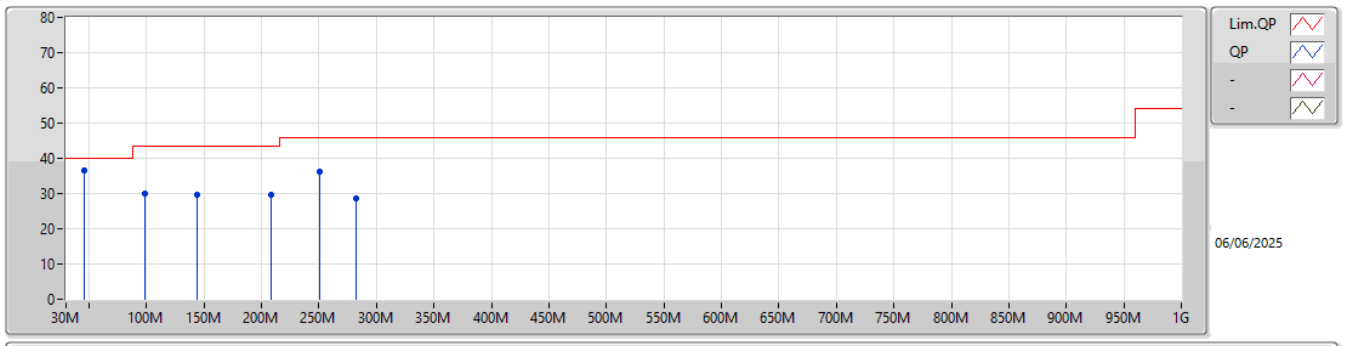

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| QP | 45.52M | 36.72 | 40.00 | -3.28 | -8.46 | 3 | Vertical | 244 | 1.00 | - | 45.18 | 19.05 | 0.62 | 28.13 |
| PK | 97.9M | 29.54 | 43.50 | -13.96 | -13.52 | 3 | Vertical | - | - | - | 43.06 | 13.69 | 1.02 | 28.23 |
| PK | 143.49M | 29.83 | 43.50 | -13.67 | -8.92 | 3 | Vertical | - | - | - | 38.75 | 18.15 | 1.18 | 28.25 |
| PK | 208.48M | 29.00 | 43.50 | -14.50 | -11.78 | 3 | Vertical | - | - | - | 40.78 | 15.06 | 1.44 | 28.28 |
| PK | 250.19M | 36.75 | 46.00 | -9.25 | -9.77 | 3 | Vertical | - | - | - | 46.52 | 16.91 | 1.57 | 28.25 |
| PK | 282.2M | 28.42 | 46.00 | -17.58 | -8.29 | 3 | Vertical | - | - | - | 36.71 | 18.24 | 1.71 | 28.24 |

**Mode 2**




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| PK | 98.25M | 28.41 | 43.50 | -15.09 | -13.49 | 3 | Horizontal | - | - | - | 41.90 | 13.72 | 1.02 | 28.23 |
| PK | 149.25M | 28.36 | 43.50 | -15.14 | -8.79 | 3 | Horizontal | - | - | - | 37.15 | 18.25 | 1.21 | 28.25 |
| PK | 168.52M | 29.33 | 43.50 | -14.17 | -9.02 | 3 | Horizontal | - | - | - | 38.35 | 17.95 | 1.29 | 28.26 |
| PK | 197.24M | 29.65 | 43.50 | -13.85 | -11.48 | 3 | Horizontal | - | - | - | 41.13 | 15.40 | 1.40 | 28.28 |
| PK | 250.02M | 39.26 | 46.00 | -6.74 | -9.78 | 3 | Horizontal | - | - | - | 49.04 | 16.90 | 1.57 | 28.25 |
| PK | 500.12M | 33.68 | 46.00 | -12.32 | -3.36 | 3 | Horizontal | - | - | - | 37.04 | 22.80 | 2.04 | 28.20 |

**Mode 2**

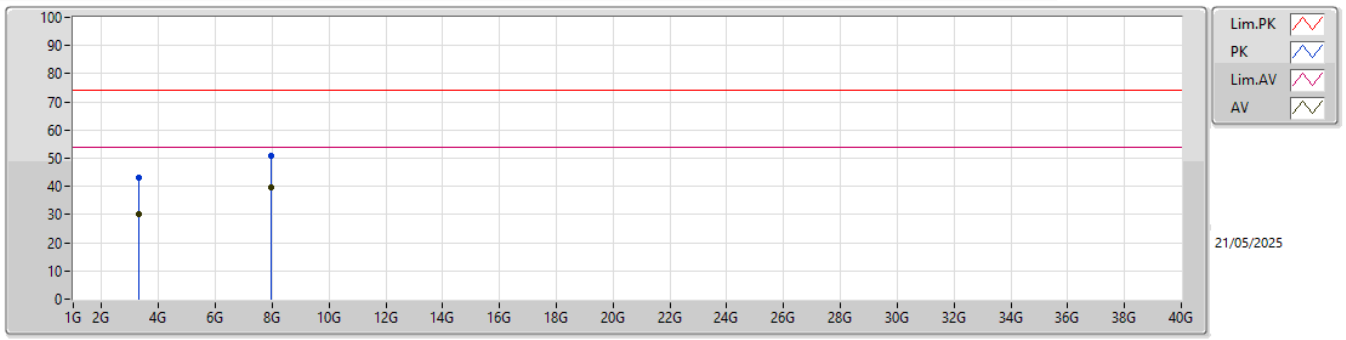



| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| QP | 45.52M | 36.61 | 40.00 | -3.39 | -8.46 | 3 | Vertical | 246 | 1.00 | - | 45.07 | 19.05 | 0.62 | 28.13 |
| PK | 98.26M | 30.12 | 43.50 | -13.38 | -13.48 | 3 | Vertical | - | - | - | 43.60 | 13.73 | 1.02 | 28.23 |
| PK | 144.28M | 29.65 | 43.50 | -13.85 | -8.89 | 3 | Vertical | - | - | - | 38.54 | 18.17 | 1.19 | 28.25 |
| PK | 208.65M | 29.54 | 43.50 | -13.96 | -11.79 | 3 | Vertical | - | - | - | 41.33 | 15.05 | 1.44 | 28.28 |
| PK | 250.35M | 36.22 | 46.00 | -9.78 | -9.77 | 3 | Vertical | - | - | - | 45.99 | 16.91 | 1.57 | 28.25 |
| PK | 282.41M | 28.69 | 46.00 | -17.31 | -8.28 | 3 | Vertical | - | - | - | 36.97 | 18.25 | 1.71 | 28.24 |

**Summary**

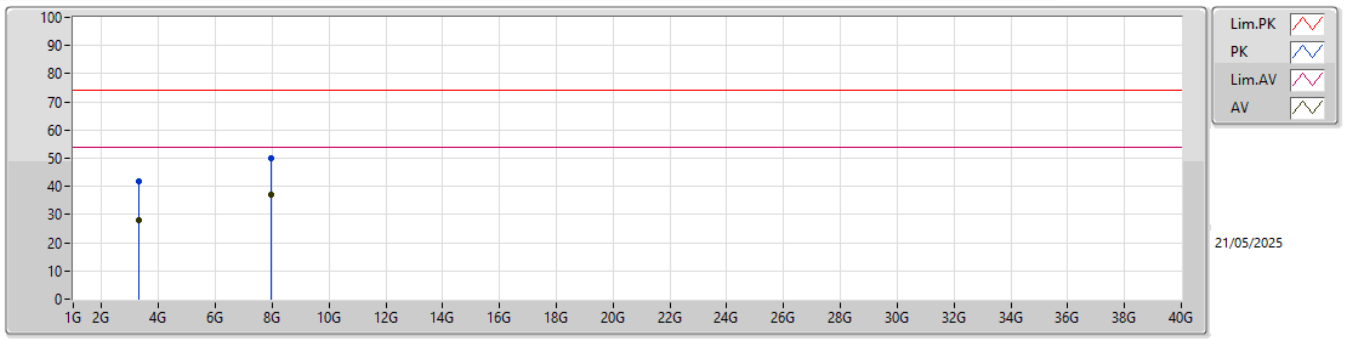
| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | AV | 7.945G | 39.53 | 54.00 | -14.47 | Horizontal |
| Mode 2 | Pass | AV | 7.945G | 39.27 | 54.00 | -14.73 | Horizontal |

**Mode 1**



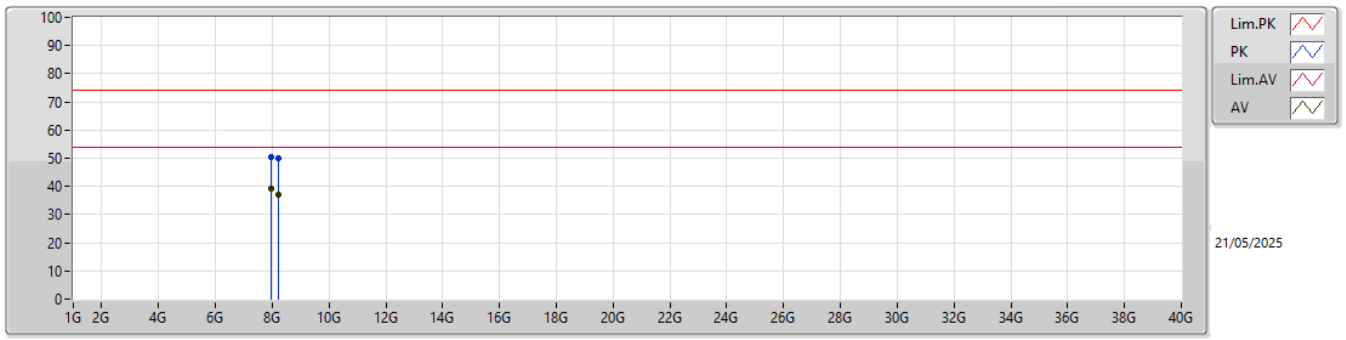

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| AV | 3.308G | 30.12 | 54.00 | -23.88 | -3.04 | 3 | Horizontal | 43 | 2.35 | - | 33.16 | 28.40 | 5.67 | 37.11 |
| PK | 3.308G | 43.13 | 74.00 | -30.87 | -3.04 | 3 | Horizontal | 30 | 2.35 | - | 46.17 | 28.40 | 5.67 | 37.11 |
| AV | 7.945G | 39.53 | 54.00 | -14.47 | 5.57 | 3 | Horizontal | 72 | 1.00 | - | 33.96 | 36.67 | 8.82 | 39.92 |
| PK | 7.945G | 50.82 | 74.00 | -23.18 | 5.57 | 3 | Horizontal | 72 | 1.00 | - | 45.25 | 36.67 | 8.82 | 39.92 |

**Mode 1**



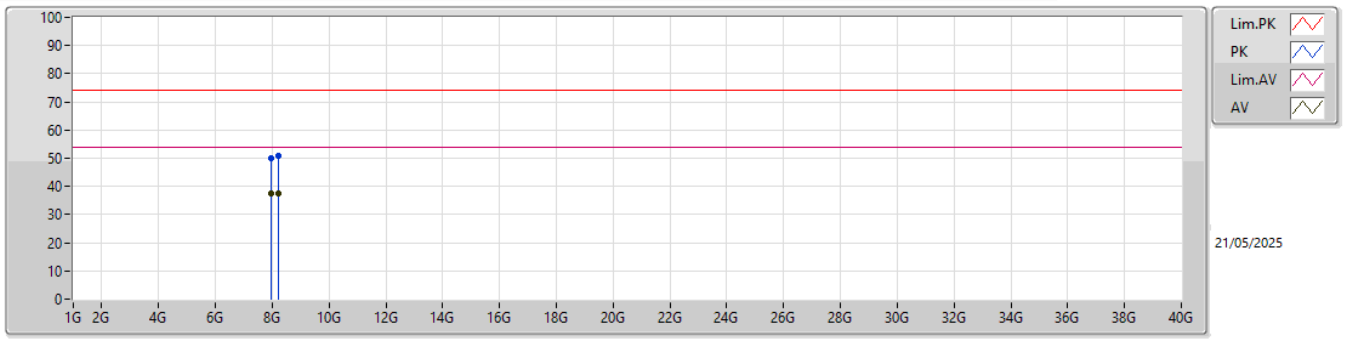

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| AV | 3.308G | 28.23 | 54.00 | -25.77 | -3.04 | 3 | Vertical | 12 | 1.00 | - | 31.27 | 28.40 | 5.67 | 37.11 |
| PK | 3.308G | 41.78 | 74.00 | -32.22 | -3.04 | 3 | Vertical | 12 | 1.00 | - | 44.82 | 28.40 | 5.67 | 37.11 |
| AV | 7.945G | 36.86 | 54.00 | -17.14 | 5.57 | 3 | Vertical | 69 | 1.00 | - | 31.29 | 36.67 | 8.82 | 39.92 |
| PK | 7.945G | 50.15 | 74.00 | -23.85 | 5.57 | 3 | Vertical | 69 | 1.00 | - | 44.58 | 36.67 | 8.82 | 39.92 |

**Mode 2**




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) |
| AV | 7.945G | 39.27 | 54.00 | -14.73 | 5.57 | 3 | Horizontal | 67 | 1.00 | - | 33.70 | 36.67 | 8.82 | 39.92 |
| PK | 7.945G | 50.24 | 74.00 | -23.76 | 5.57 | 3 | Horizontal | 67 | 1.00 | - | 44.67 | 36.67 | 8.82 | 39.92 |
| AV | 8.225G | 37.25 | 54.00 | -16.75 | 5.60 | 3 | Horizontal | 40 | 1.00 | - | 31.65 | 36.70 | 9.04 | 40.14 |
| PK | 8.225G | 50.21 | 74.00 | -23.79 | 5.60 | 3 | Horizontal | 40 | 1.00 | - | 44.61 | 36.70 | 9.04 | 40.14 |

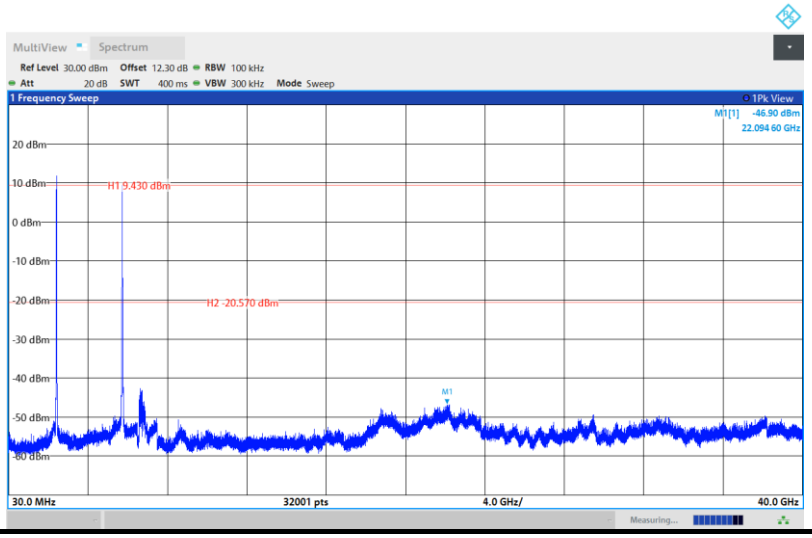
## Mode 2



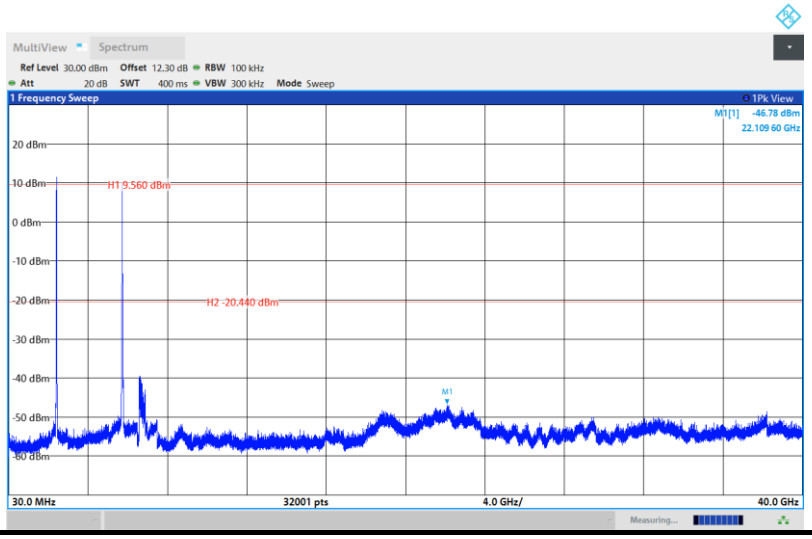

| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB/m) | (m) | | (°) | (m) | | (dBuV) | (dB/m) | (dB) | (dB) | | |
| AV | 7.945G | 37.59 | 54.00 | -16.41 | 5.57 | 3 | Vertical | 72 | 1.00 | - | 32.02 | 36.67 | 8.82 | 39.92 | | |
| PK | 7.945G | 50.16 | 74.00 | -23.84 | 5.57 | 3 | Vertical | 72 | 1.00 | - | 44.59 | 36.67 | 8.82 | 39.92 | | |
| AV | 8.225G | 37.36 | 54.00 | -16.64 | 5.60 | 3 | Vertical | 170 | 1.00 | - | 31.76 | 36.70 | 9.04 | 40.14 | | |
| PK | 8.225G | 51.01 | 74.00 | -22.99 | 5.60 | 3 | Vertical | 170 | 1.00 | - | 45.41 | 36.70 | 9.04 | 40.14 | | |

| **Ambient Condition** | 24°C / 67% | **Tested By** | Roger Lu |
|---|---|---|---|

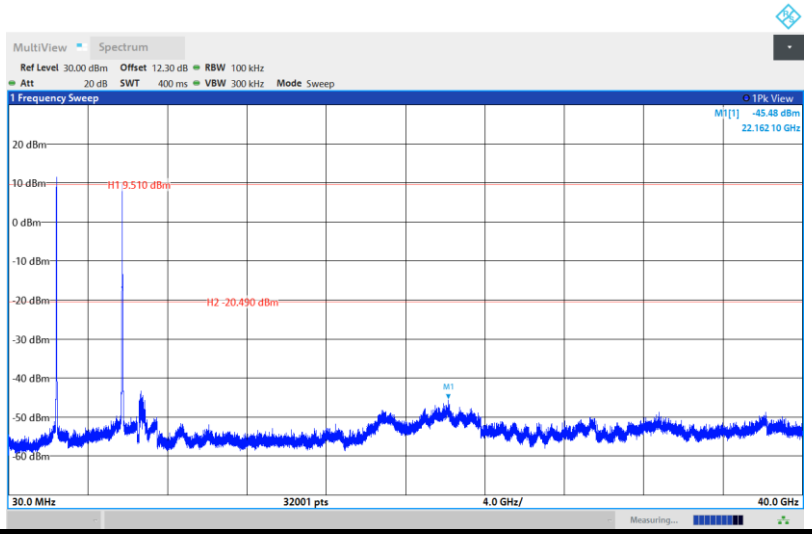
**C0**



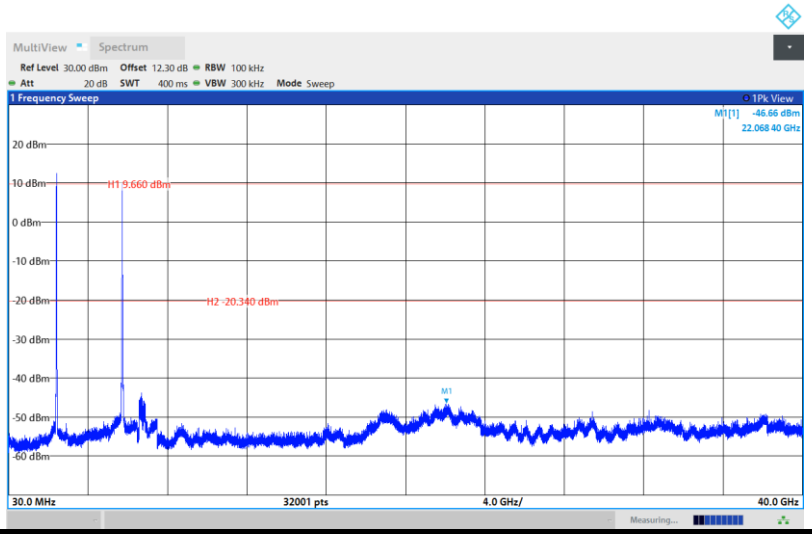

**C1**



**C2**


MultiView
Spectrum
Ref Level 30.00 dBm Offset 12.30 dB RBW 100 kHz
Att 20 dB SWT 400 ms VBW 300 kHz Mode Sweep
1 Frequency Sweep
1Pk View
M1[1] -45.48 dBm
22.162 10 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
H1 9.510 dBm
H2 -20.490 dBm
M1
30.0 MHz
32001 pts
4.0 GHz/
40.0 GHz
Measuring...

**C3**


MultiView
Spectrum
Ref Level 30.00 dBm Offset 12.30 dB RBW 100 kHz
Att 20 dB SWT 400 ms VBW 300 kHz Mode Sweep
1 Frequency Sweep
1Pk View
M1[1] -46.66 dBm
22.068 40 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
H1 9.660 dBm
H2 -20.340 dBm
M1
30.0 MHz
32001 pts
4.0 GHz/
40.0 GHz
Measuring...