Test Report No.:
**GJWSZ2025-0150-RF2**

# RF Test Report

| | | |
|---|---|---|
| **FCC ID** | : | **2AXLB-EA-J150** |
| **NAME OF SAMPLE** | : | **Agricultural Spraying Drone** |
| **APPLICANT** | : | **Suzhou EAVision Robotic Technologies Co., Ltd** |
| **CLASSIFICATION OF TEST** | : | **N/A** |

## CVC Testing Technology (Shenzhen) Co., Ltd.

| | |
|---|---|
| **Applicant** | **Name: Suzhou EAVision Robotic Technologies Co., Ltd**<br>**Address: Unit 1-A, No.3 Workshop, 28 asheng Road, SIP Suzhou, Jiangsu, China** |
| **Manufacturer** | **Name: SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD**<br>**Address: Room 504&505, Building 2, Nanopolis District II, No.333, Xingpu Road, SIP Suzhou, Jiangsu, China** |
| **Equipment Under Test** | **Name: Agricultural Spraying Drone**<br>**Model/Type: EA-J150;3WWDZ-U70B**<br>**Additional Model: EA-J70;3WWDZ-U35A;EA-J100EVO**<br>**Brand Name: EAVISION**<br>**Serial NO.: N/A**<br>**Sample NO.: 1-1** |

| | | | |
|---|---|---|---|
| Date of Receipt. | **Mar.19,2025** | Date of Testing | **Mar.19,2025～Aug 11,2025** |

| **Test Specification** | **Test Result** |
|---|---|
| **FCC Part 15, Subpart C (15.255)** | **PASS** |

| | |
|---|---|
| **Evaluation of Test Result** | The equipment under test was found to comply with the requirements of the standards applied.<br>Seal of CVC<br>**Issue Date: Aug 11,2025** |

| Compiled by: | Reviewed by: | Approved by: |
|---|---|---|
| Liang Jiatong | Mo Xianbiao | Dong Sanbi |
| Name Signature | Name Signature | Name Signature |

**Other Aspects: NONE.**

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

# TABLE OF CONTENTS

# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| GJWSZ2025-0150-RF2 | Original release | Aug 11,2025 |

# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15.255(Aircraft) | | | |
|---|---|---|---|
| **STANDARD SECTION** | **TEST TYPE** | **RESULT** | **REMARK** |
| 15.207 | AC Power Conducted Emission | N/A | DC power supply |
| 15.255(d) | Transmitter Spurious Emissions | PASS | See section 3.2 |
| 15.215(c)<br>15.255(b)(3) | Occupied Bandwidth | PASS | See section 3.4 |
| 15.255(b)(3) | Duty cycle, Off Time Requirement | PASS | See section 3.3 |
| 15.255(b)(3) | EIRP | PASS | See section 3.5 |
| 15.255(f) | Frequency stability | PASS | See section 3.6 |
| 15.255(h) | Group Installation | N/A | The test is not applicable since there are no external phase-locking inputs in this EUT |
| 15.203 | Antenna Requirement | PASS | See section 3.7 |

Note:

(1) The report only presents the test results of the worst mode (Model: EA-J150)

## 1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial Number | Cal. interval | Cal. Due |
|---|---|---|---|---|---|
| Radiation Spurious(Below 40GHz) | | | | | / |
| Signal&Spectrum Analyzer | Rohde&Schwarz | FSV 40 | 101898 | 1 year | 2026.5.16 |
| EMI Test Receiver | Rohde&Schwarz | ESR3 | 102693 | 1 year | 2025.5.24 |
| Antenna(30MHz~1001MHz) | SCHWARZBECK | VULB 9168 | 1133 | 1 year | 2026.1.22 |
| Horn antenna(1GHz-18GHz) | ETS | 3117 | 227611 | 1 year | 2026.3.28 |
| Horn antenna(18GHz-40GHz) | QMS | QMS-00880 | 22051 | 1 year | 2026.3.21 |
| 3m anechoic chamber | MORI | 966 | CS0300011 | 3 year | 2026.5.18 |
| Filter group(RSE-BT/WiFi) | Rohde&Schwarz | WiFi /BT Variant 1 | 100820 | 1 year | 2026.4.22 |
| Filter group(RSE-Cellular) | Rohde&Schwarz | Cellular Variant 1 | 100768 | 1 year | 2026.4.22 |
| Preamplifier(1GHz-18GHz) | Rohde&Schwarz | SCU-18F | 100799 | 1 year | 2026.4.22 |
| Preamplifier(1GHz-18GHz) | Rohde&Schwarz | SCU-18F | 100801 | 1 year | 2026.4.22 |
| Preamplifier(18Gz-40GHz) | Rohde&Schwarz | SCU-40A | 101209 | 1 year | 2026.4.22 |
| Antenna tower | Max-Full | MFA-515DBSN | 1308650 | N/A | N/A |
| #2 control room | MORI | 433 | CS0200059 | 3 year | 2026.5.16 |
| Temperature and humidity meter | / | C193561517 | C193561517 | 1 year | 2026.4.28 |
| Radiation Spurious(Above 40GHz) | | | | | / |
| Equipment | Manufacturer | Model No. | Serial Number | Cal. interval | Cal. Due |
| 3m anechoic chamber | MORI | 966 | CS0300011 | 3 year | 2026.5.18 |
| #2 control room | MORI | 433 | CS0300028 | 3 year | 2026.5.16 |
| Temperature and humidity meter | / | C193561517 | C193561517 | 1 year | 2026.4.28 |
| Signal&Spectrum Analyzer | keysight | N9040B | CS0300074 | 1 year | 2025.9.24 |
| SA Expansion Module(40-60GHz) | VDI | N9029AV19 | CS0300075 | 3 year | 2025.9.14 |
| SA Expansion Module(60-90GHz) | VDI | N9029AV12 | CS0300076 | 3 year | 2025.9.14 |
| SA Expansion Module(90-140GHz) | VDI | N9029AV08 | CS0300077 | 3 year | 2025.9.14 |
| SA Expansion Module(140-220GHz) | VDI | N9029AV05 | CS0300078 | 3 year | 2025.9.14 |
| Horn antenna(40-60GHz) | CMI | HO19R | CS0300086 | 3 year | 2025.9.14 |
| Horn antenna(60-90GHz) | CMI | HO12R | CS0300088 | 3 year | 2025.9.14 |
| Horn antenna(90-140GHz) | CMI | HO08R | CS0300090 | 3 year | 2025.9.14 |
| Horn antenna(140-220GHz) | CMI | HO05R | CS0300092 | 3 year | 2025.9.14 |

## 1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement Uncertainty | | |
|---|---|---|
| **No.** | **Item** | **Measurement Uncertainty** |
| 1 | Occupied Channel Bandwidth | ±1.86% |
| 2 | Radiated emission(9kHz-30MHz) | +/-5.6 dB |
| 3 | Radiated Emissions(30MHz-1GHz) | ±5.0dB |
| 4 | Radiated Emissions(1GHz-18GHz) | ±4.8dB |
| 5 | Radiated Emissions(18GHz-40GHz) | ±5.1dB |
| 6 | Radiated Emissions(40GHz-60GHz) | ±4.8dB |
| 7 | Radiated Emissions(60GHz-90GHz) | ±4.8dB |
| 8 | Radiated Emissions(90GHz-140GHz) | ±5.0dB |
| 9 | Radiated Emissions(140GHz-220GHz) | ±5.1dB |
| 10 | Radiated Emissions(220GHz-300GHz) | ±4.8dB |
| 11 | Temperature | ±0.73°C |
| 12 | Supply voltages | ±0.37 % |
| 13 | Humidity | ±3.9 % |
| **Remark: 95% Confidence Levels, k=2.** | | |

## 1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China
Post Code：518110 Tel：0755-23763060-8805
Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn
FCC(Test firm designation number：CN1363)
IC(Test firm CAB identifier number：CN0137)
CNAS(Test firm designation number：L16091)

# 2 GENERAL INFORMATION

## 2.1 GENERAL PRODUCT INFORMATION

| | |
|---|---|
| **PRODUCT** | Agricultural Spraying Drone |
| **BRAND** | EAVISION |
| **TEST MODEL** | EA-J150 |
| **ADDITIONAL MODEL** | 3WWDZ-U70B,EA-J70,3WWDZ-U35A,EA-J100EVO |
| **POWER SUPPLY** | DC 52.22V by Lithium Ion Polmer Rechargeable Battery<br>Battery model: EAV-CTB45Ah<br>Max Charge Voltage:59.92V<br>Nominal Voltage:52.22V<br>Rated Capacity:45000mAh<br>DC 20-28V(Radar) |
| **MODULATIONTECHNOLOGY** | FMCW |
| **FREQUENCY RANGE** | TM1:60 ~ 64GHz<br>TM2:60 ~ 64GHz |
| **PEAK OUTPUT POWER** | 12.85dBm for TM1<br>12.20dBm for TM2 |
| **ANTENNA TYPE(Note 4)** | TM1:Layout Antenna@18.6dBi<br>TM2:Layout Antenna@18.6dBi |
| **I/O PORTS** | Refer to user’ s manual |
| **CABLE SUPPLIED** | N/A |

Note:

1. For more detailed features description, please refer to the manufacturer’s specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to report.
4. Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
5. The capacity of the pesticide box and the power of the motor are different.

## 2.2 OTHER INFORMATION

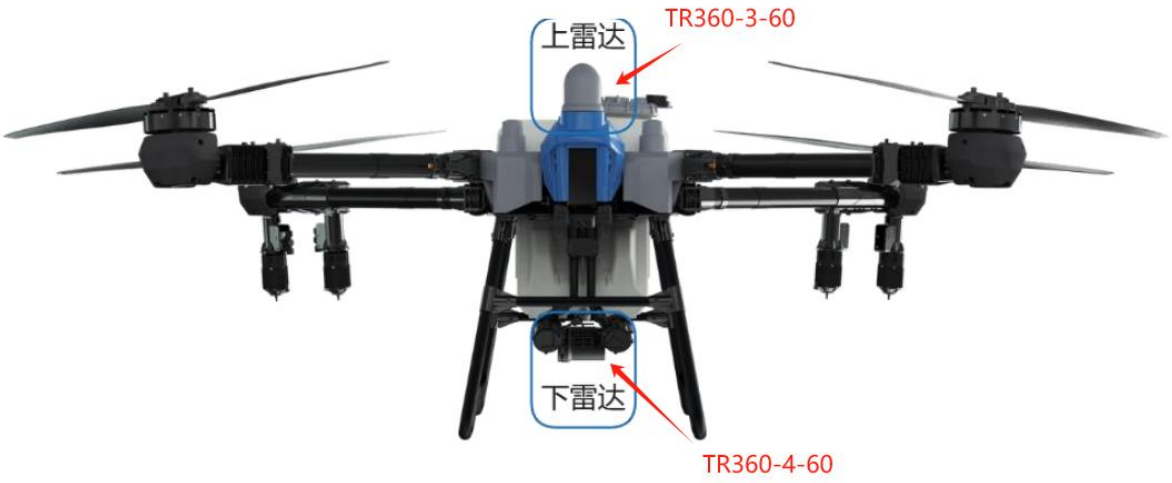
The EUT only have one channel.

| MODE | CHANNEL | FREQUENCY (MHz) |
|---|---|---|
| TM1 | 1 | 62300 |
| TM2 | 1 | 62300 |

## 2.3 TEST MODE

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis (if EUT with antenna diversity architecture) and packet type.
The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

| MODE | MODEL | FREQUENCY (GHz) | TEST ITEM | Power supply |
|---|---|---|---|---|
| TM1 | TR360-3-60 | 62.3 | ALL | DC 24V(Only supply power to the radar) |
| TM2 | TR360-4-60 | 62.3 | ALL | DC 24V(Only supply power to the radar) |



## 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

**FCC PART 15, SUBPART C. SECTION 15.255**
**KDB 364244 D01 MEAS 15.255 RADARS V01R01**
**ANSI C63.10-2020**
TCBC Workshop(2023.10.25) Part 15.255 Rules Amendment
Keysight Application Note 5952-1039

All test items have been performed and recorded as per the above standards.

## 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Support Equipment | | | | | |
|---|---|---|---|---|---|
| **NO** | **Description** | **Brand** | **Model No.** | **Serial Number** | **Supplied by** |
| 1 | Laptop | Lenovo | K4e-ARE120 | MP20kshe | Lab |
| 2. | Adapter | XPTEC | K28V240100G | N/A | Lab |

| Support Cable | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO** | **Description** | **Quantity (Number)** | **Length (cm)** | **Detachable (Yes/ No)** | **Shielded (Yes/ No)** | **Cores (Number)** | **Supplied by** |
| | | | | | | | |
| | | | | | | | |

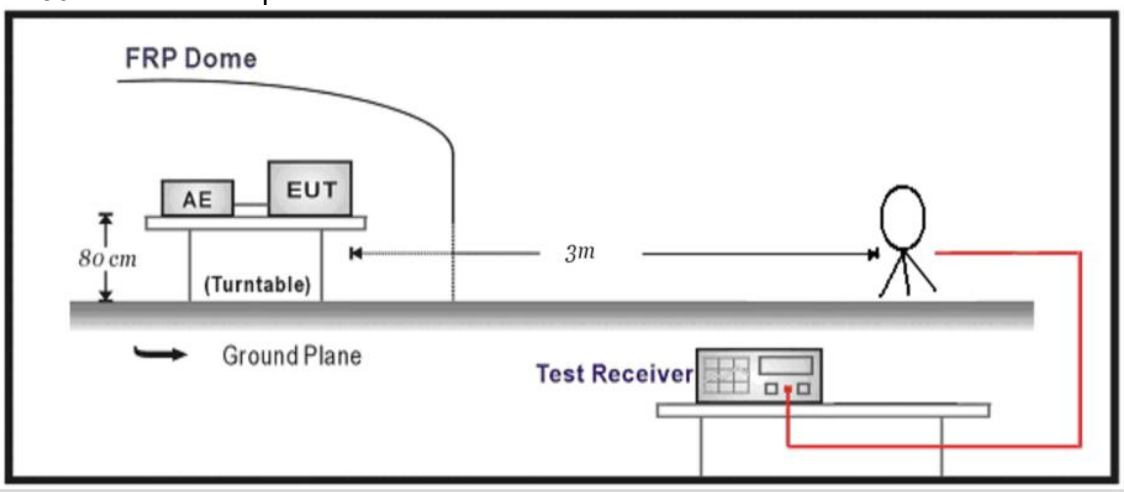
## 2.6 FAR FIELD CONDITION FOR FREQUENCY ABOVE 18GHz

The equipment under test was transmitting while connected to its integral antenna and is placed on a turn table.The measurement antenna is in the far field of the EUT per formula $2D^2/\lambda$ where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT. In this case, "D" is the largest dimension of the measurement antenna. The EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

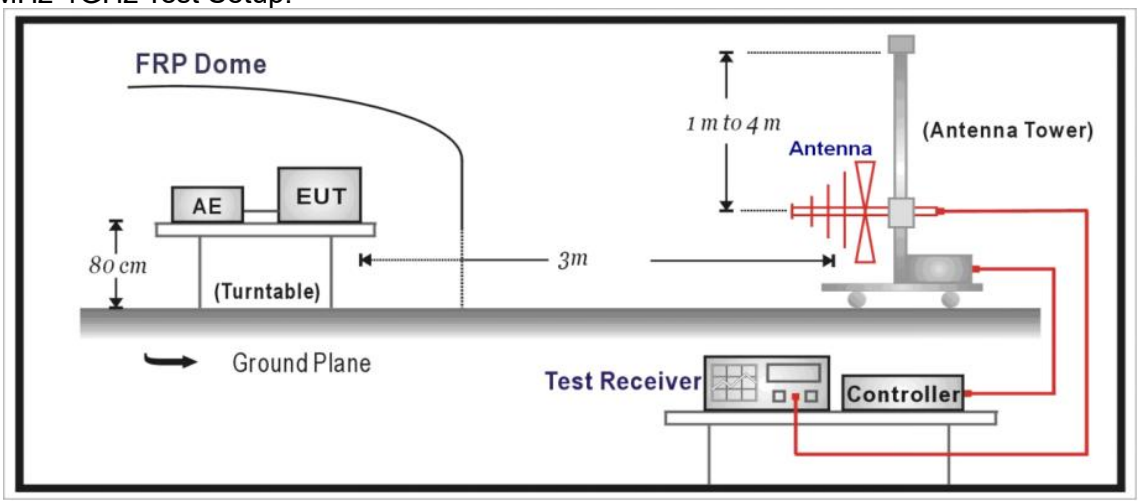
| Horn Antenna | Frequency (GHz) | Antenna Dimension A(m) | Wavelength (λ)(m) | Far field R(m)>=$2D^2/\lambda$ | Measurement Distance(D)(m) |
|---|---|---|---|---|---|
| QMS-00880 | 18 | 0.08 | 0.0167 | 0.77 | 3 |
| | 40 | 0.08 | 0.0075 | 1.71 | |
| HO19R | 40 | 0.046 | 0.0075 | 0.56 | 1 |
| | 60 | 0.046 | 0.005 | 0.85 | |
| HO12R | 60 | 0.03 | 0.005 | 0.36 | 1 |
| | 90 | 0.03 | 0.0033 | 0.55 | |
| HO8R | 90 | 0.019 | 0.0033 | 0.22 | 1 |
| | 140 | 0.019 | 0.0021 | 0.34 | |
| HO5R | 140 | 0.012 | 0.0021 | 0.14 | 1 |
| | 220 | 0.012 | 0.0014 | 0.21 | |
| HO3R | 220 | 0.008 | 0.0014 | 0.09 | 1 |
| | 330 | 0.008 | 0.0009 | 0.14 | |

## 2.7 RADIATED TEST SETUP

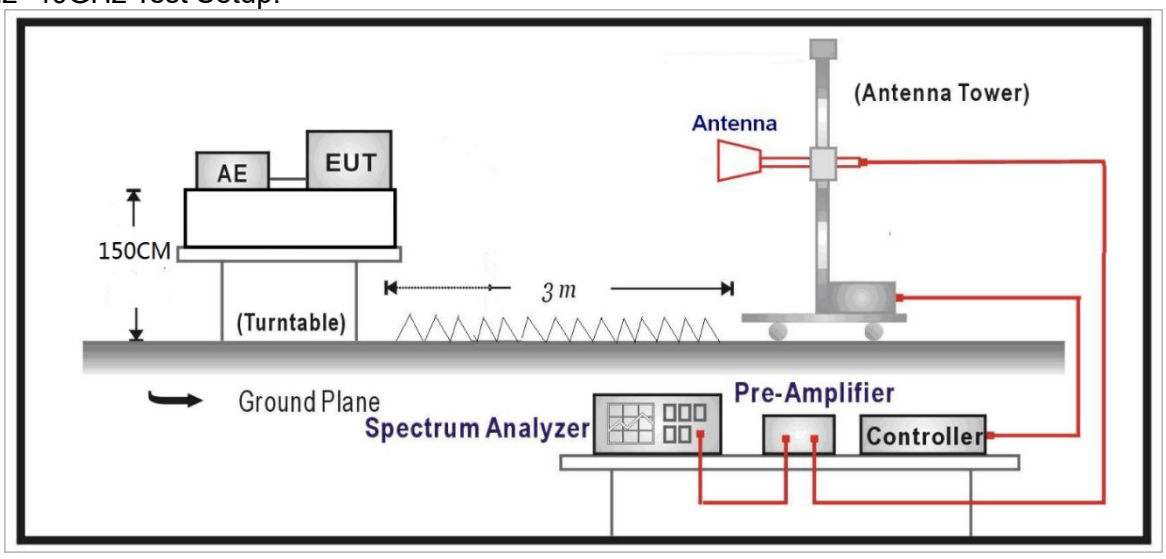
Below 30MHz Test Setup:



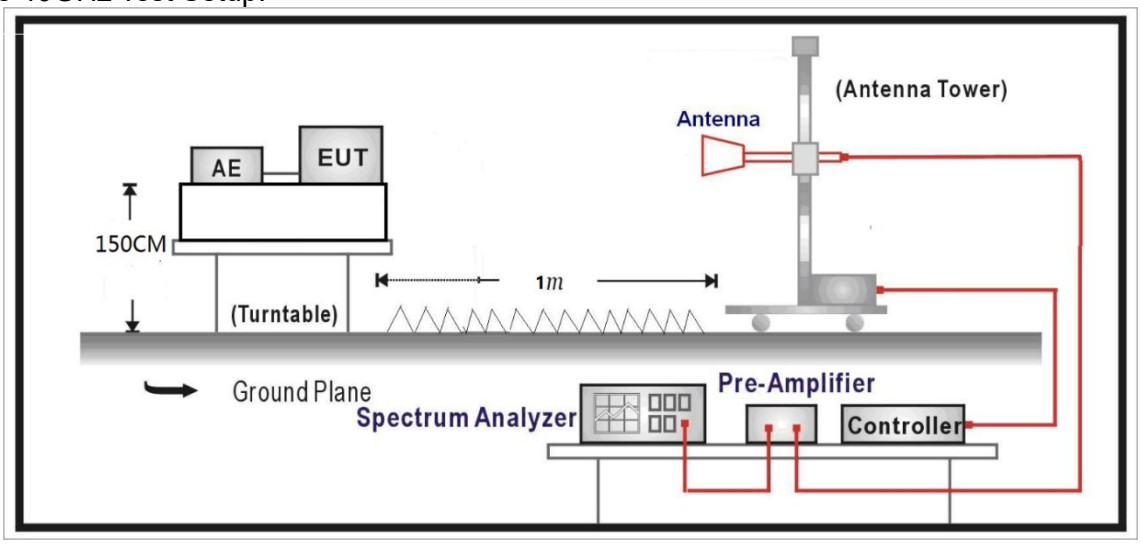

30MHz-1GHz Test Setup:




1GHz -40GHz Test Setup:



Above 40GHz Test Setup:



# 3 TEST TYPES AND RESULTS

## 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 Limit

| Frequency (MHz) | Conducted Limits(dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46* |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |
| NOTE: 1. The lower limit shall apply at the transition frequencies.<br>NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz. | | |

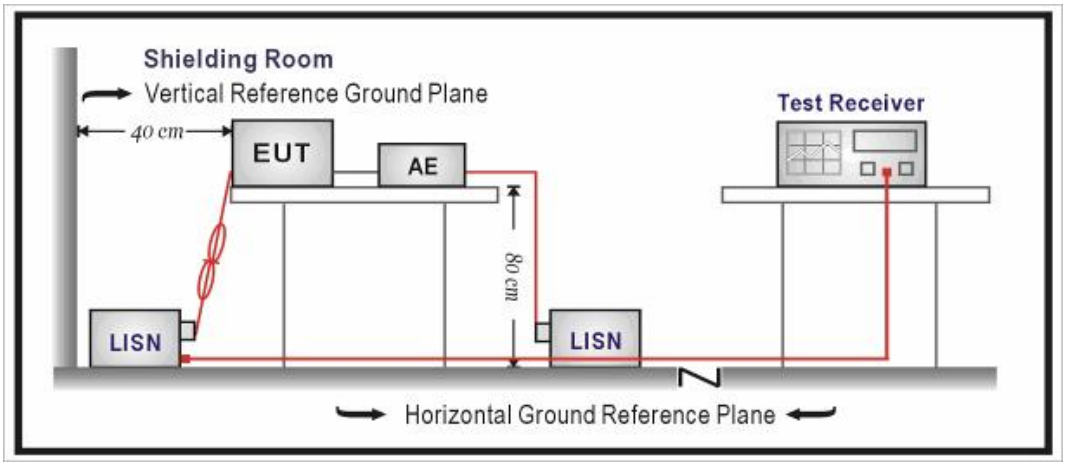
### 3.1.2 Measurement procedure

a. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.The equipment under test shall be placed on a support of non-metallic material, the height of which shall be1.5m above the ground,

b. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

c. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### 3.1.3 Test setup



### 3.1.4 Test results

N/A,DC power supply

## 3.2 TRANSMITTER SPURIOUS EMISSIONS MEASUREMENT

### 3.2.1 Limit

Below 40 GHz radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

| FREQUENCIES (MHz) | FIELD STRENGTH (Microvolts/Meter) | MEASUREMENT DISTANCE (Meters) |
|---|---|---|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90pW/cm2 at a distance of 3 meters.

| FCC Frequency [GHz] | EIRP |
|---|---|
| 40 - 200 | -10dBm |
| Limit conversion according to ANSI C63.10-2020 9.2.3 ($pW/cm^2$ to dBm ): | $EIRP[dBm] = 10 \times \log(4 \times \pi \times d^2 \times PD[W/m^2])$ ---------- According to this formula, an emission limit of PD = 90 $pW/cm^2$ at a distance of d = 3 m corresponds to an equivalent isotropically radiated power of EIRP = -10 dBm. |

### 3.2.2 Measurement procedure

**Measurement of harmonic and spurious emissions below 40 GHz**

a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

**NOTE:**

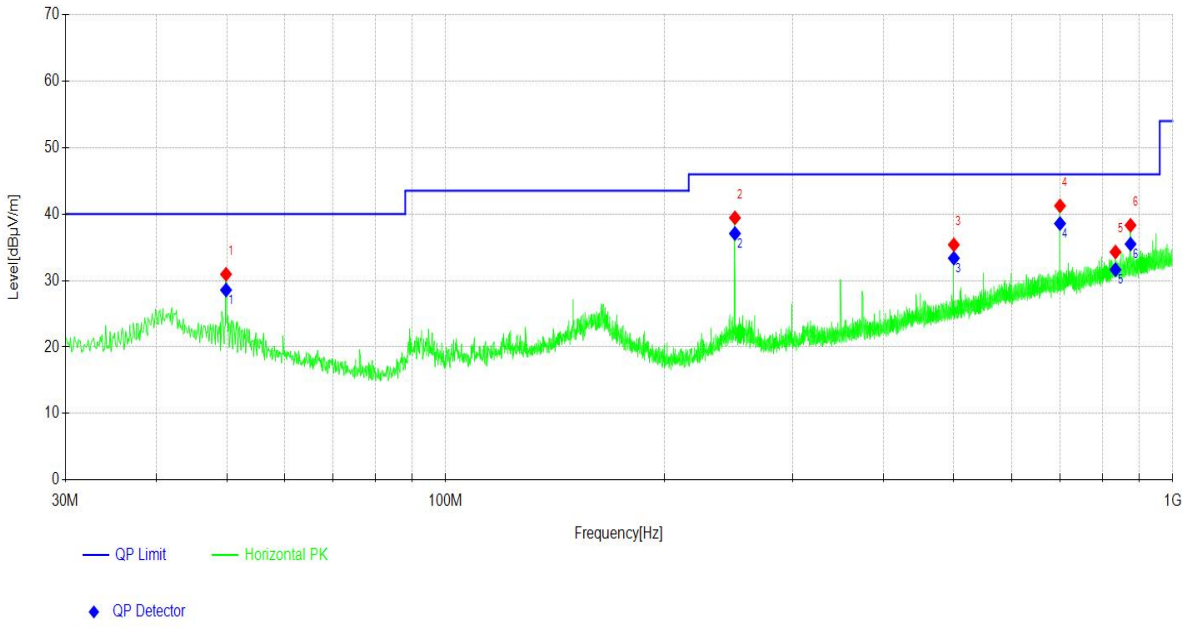
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geqslant$ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

**Measurement of harmonic and spurious emissions above 40 GHz**

a. Connect the test antenna covering the appropriate frequency range to a spectrum analyzer via an external mixer.
b. Set spectrum analyzer RBW = 1MHz, VBW = 3MHz, average detector.
c. Maximize all observed emissions. Note the maximum power indicated on the spectrum analyzer. Adjust this reading, if necessary, by the conversion loss of the external mixer used at the frequency under investigation and the external mixer IF cable loss.
d. Calculate the maximum field strength of the emission at the measurement distance
e. Calculate the power density at the distance specified by the limit from the field strength at the distance specified by the limit
f. Repeat the preceding sequence for every emission observed in the frequency band under investigation.

### 3.2.3 Test results(30MHz-1GHz)

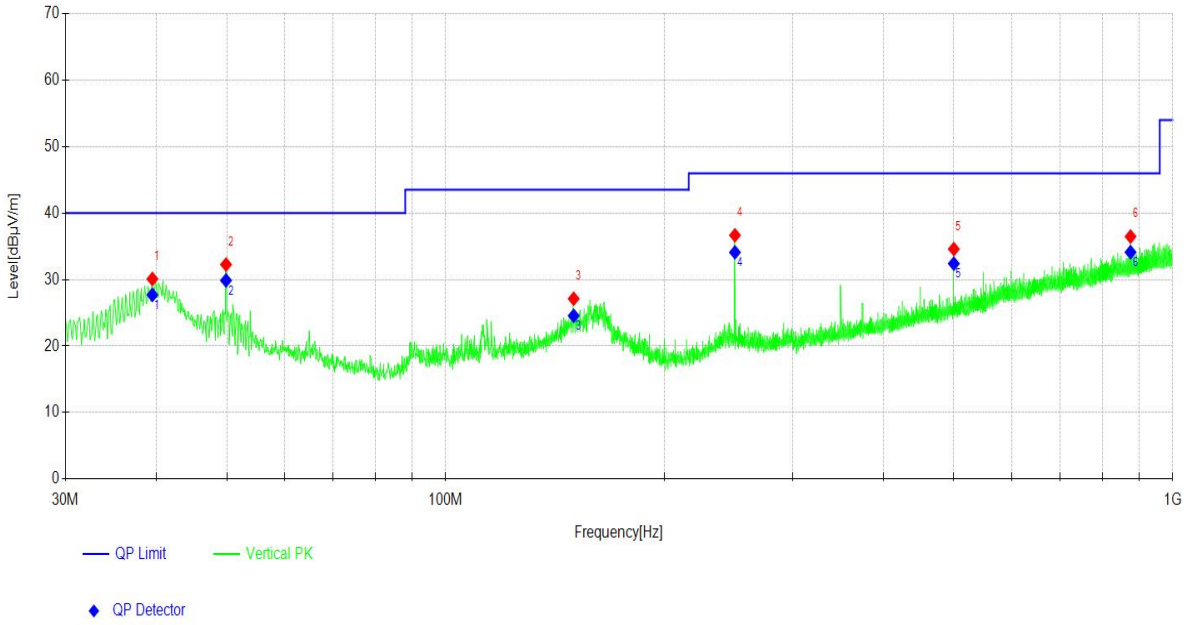
| Test Mode: | TM1 | Frequency Range | 30MHz-1000MHz |
|---|---|---|---|
| Detector Function | Quasi-Peak(QP) | | |




| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 49.887 | 20.20 | 28.58 | 40.00 | 11.42 | 100 | 359 | Horizonta |
| 2 | 250.018 | 19.17 | 37.08 | 46.00 | 8.92 | 100 | 265 | Horizonta |
| 3 | 500.012 | 24.72 | 33.37 | 46.00 | 12.63 | 100 | 359 | Horizonta |
| 4 | 699.949 | 28.23 | 38.58 | 46.00 | 7.42 | 100 | 359 | Horizonta |
| 5 | 834.307 | 29.85 | 31.64 | 46.00 | 14.36 | 100 | 338 | Horizonta |
| 6 | 875.052 | 30.22 | 35.50 | 46.00 | 10.50 | 100 | 99 | Horizonta |

Remark: 1. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

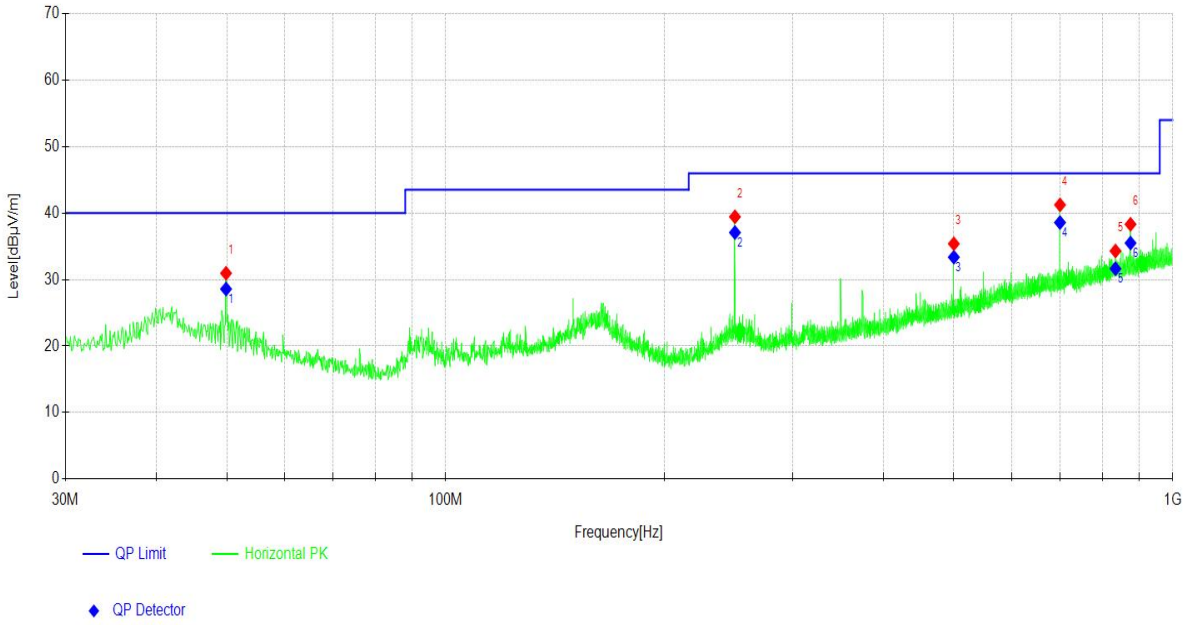
| Test Mode: | **TM1** | Frequency Range | 30MHz-1000MHz |
|---|---|---|---|
| Detector Function | Quasi-Peak(QP) | | |




| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 39.507 | 20.65 | 27.70 | 40.00 | 12.30 | 100 | 253 | Vertical |
| 2 | 49.887 | 20.20 | 29.88 | 40.00 | 10.12 | 100 | 223 | Vertical |
| 3 | 150.001 | 21.31 | 24.56 | 43.50 | 18.94 | 100 | 206 | Vertical |
| 4 | 250.018 | 19.17 | 34.10 | 46.00 | 11.90 | 100 | 262 | Vertical |
| 5 | 500.012 | 24.72 | 32.40 | 46.00 | 13.60 | 200 | 358 | Vertical |
| 6 | 875.052 | 30.22 | 34.12 | 46.00 | 11.88 | 100 | 66 | Vertical |

Remark: 1. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

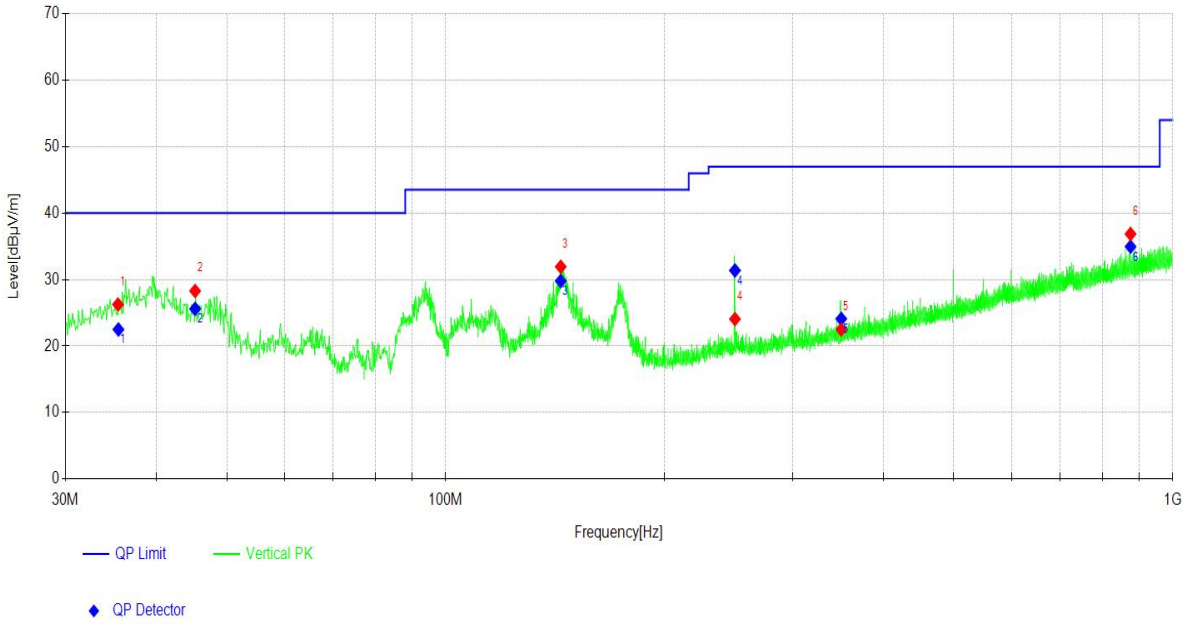
| Test Mode: | **TM2** | Frequency Range | 30MHz-1000MHz |
|---|---|---|---|
| Detector Function | Quasi-Peak(QP) | | |




| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 49.887 | 20.20 | 28.58 | 40.00 | 11.42 | 100 | 359 | Horizonta |
| 2 | 250.018 | 19.17 | 37.08 | 46.00 | 8.92 | 100 | 265 | Horizonta |
| 3 | 500.012 | 24.72 | 33.37 | 46.00 | 12.63 | 100 | 359 | Horizonta |
| 4 | 699.949 | 28.23 | 38.58 | 46.00 | 7.42 | 100 | 359 | Horizonta |
| 5 | 834.307 | 29.85 | 31.64 | 46.00 | 14.36 | 100 | 338 | Horizonta |
| 6 | 875.052 | 30.22 | 35.50 | 46.00 | 10.50 | 100 | 99 | Horizonta |

Remark: 1. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

| Test Mode: | **TM2** | Frequency Range | 30MHz-1000MHz |
|---|---|---|---|
| Detector Function | Quasi-Peak(QP) | | |




| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 35.479 | 19.96 | 22.5 | 40.00 | -1.62 | 101 | 358.2 | Vertical |
| 2 | 45.231 | 20.27 | 25.6 | 40.00 | 2.72 | 100 | 354 | Vertical |
| 3 | 143.986 | 20.86 | 29.79 | 43.50 | 13.71 | 100 | 46 | Vertical |
| 4 | 250.018 | 19.17 | 31.38 | 47.00 | 15.62 | 100 | 273 | Vertical |
| 5 | 350.035 | 21.66 | 24.10 | 47.00 | 22.90 | 100 | 174 | Vertical |
| 6 | 875.052 | 30.22 | 34.96 | 47.00 | 12.04 | 200 | 2 | Vertical |

Remark: 1. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

### 3.2.4 Test setup

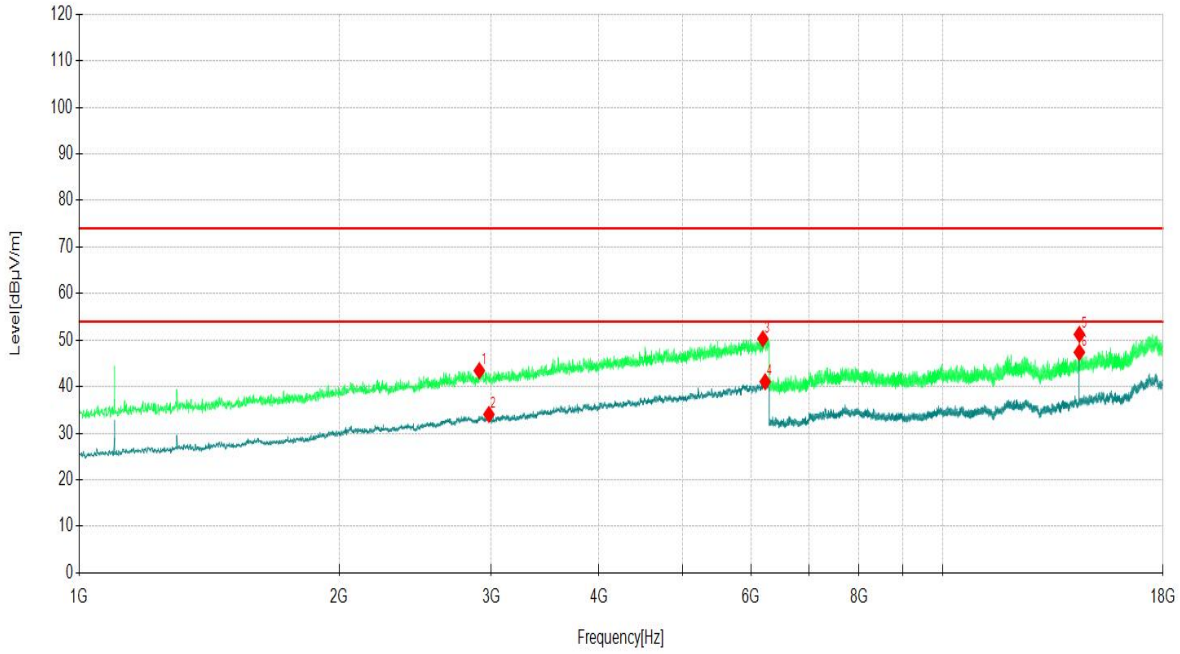
See section 2.7 of this report.

### 3.2.5 Test results(9kHz-30MHz)

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 3.2.6 Test results(1GHz-18GHz)

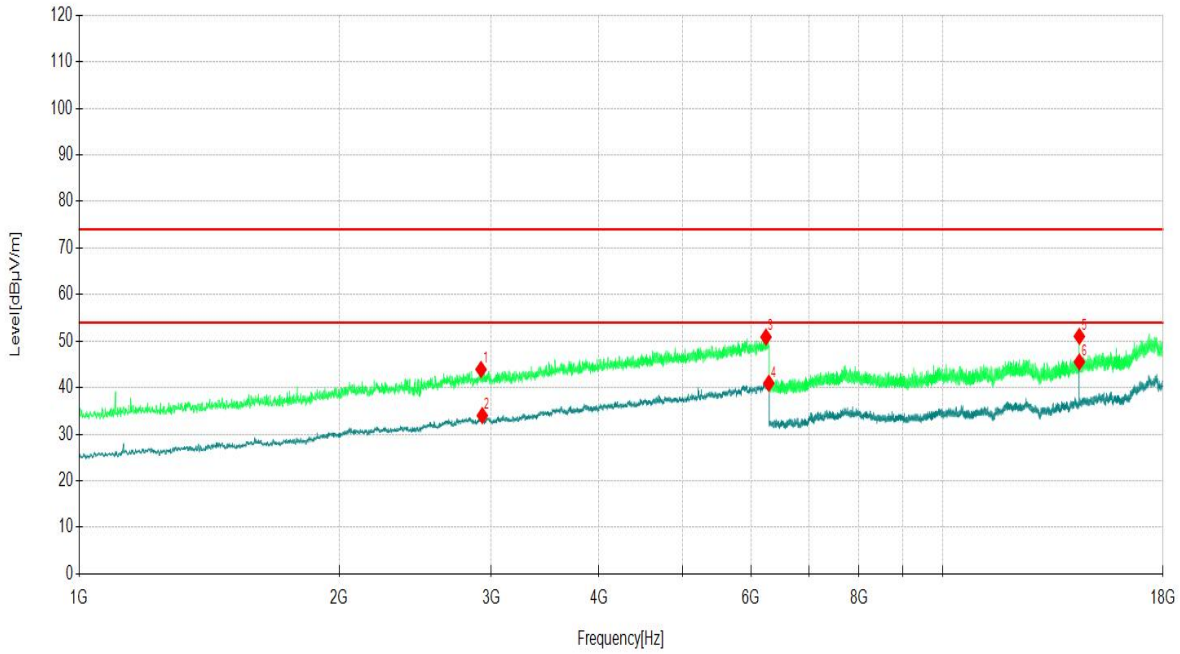
| Test Mode: | **TM1** | Frequency Range | 1GHz-18GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 2907.36 | 45.53 | -2.09 | 43.44 | 74.00 | 30.56 | PK | Horizontal |
| 2 | 2982.37 | 35.83 | -1.77 | 34.06 | 54.00 | 19.94 | AV | Horizontal |
| 3 | 6191.98 | 43.69 | 6.59 | 50.28 | 74.00 | 23.72 | PK | Horizontal |
| 4 | 6229.99 | 33.56 | 7.50 | 41.06 | 54.00 | 12.94 | AV | Horizontal |
| 5 | 14400.00 | 35.02 | 16.21 | 51.23 | 74.00 | 22.77 | PK | Horizontal |
| 6 | 14400.00 | 31.17 | 16.21 | 47.38 | 54.00 | 6.62 | AV | Horizontal |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

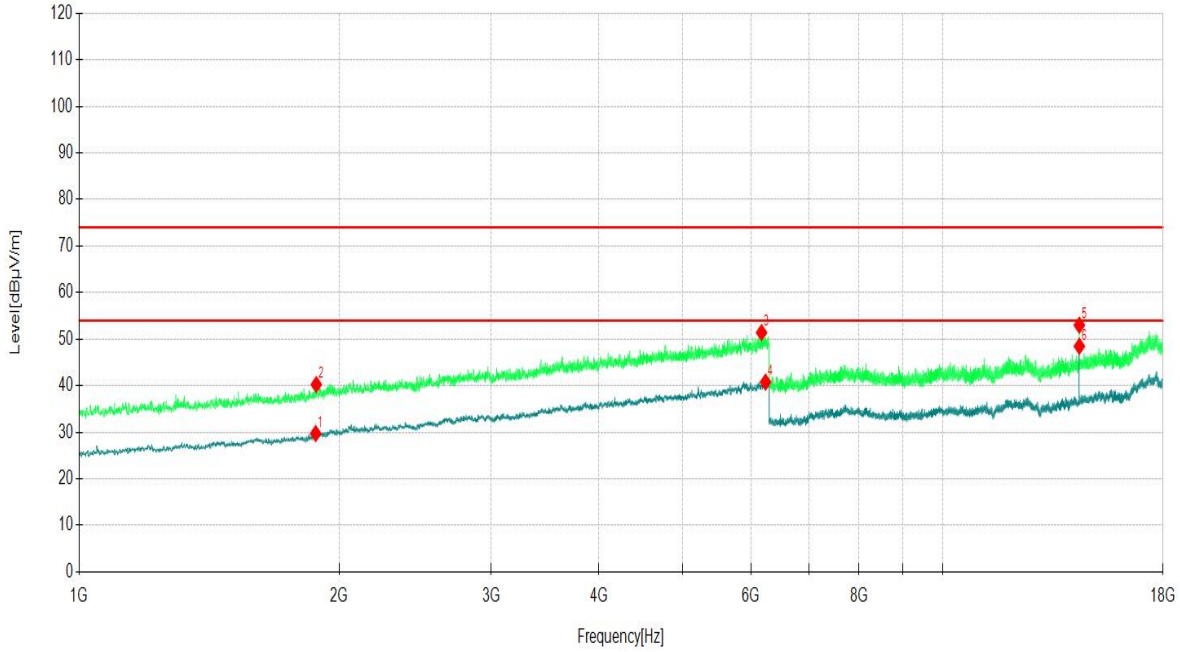
| Test Mode: | **TM1** | Frequency Range | 1GHz-18GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 2920.36 | 45.74 | -1.82 | 43.92 | 74.00 | 30.08 | PK | Vertical |
| 2 | 2930.36 | 35.66 | -1.64 | 34.02 | 54.00 | 19.98 | AV | Vertical |
| 3 | 6243.99 | 43.44 | 7.44 | 50.88 | 74.00 | 23.12 | PK | Vertical |
| 4 | 6291.00 | 33.30 | 7.65 | 40.95 | 54.00 | 13.05 | AV | Vertical |
| 5 | 14400.00 | 34.82 | 16.21 | 51.03 | 74.00 | 22.97 | PK | Vertical |
| 6 | 14400.00 | 29.34 | 16.21 | 45.55 | 54.00 | 8.45 | AV | Vertical |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

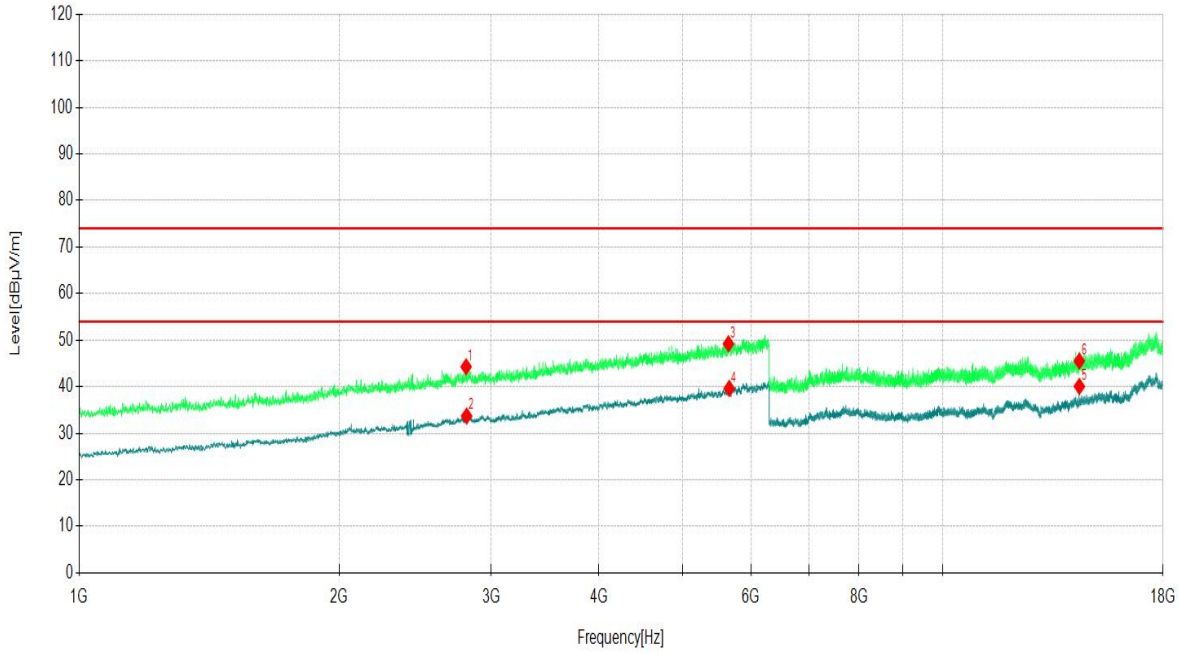
| Test Mode: | **TM2** | Frequency Range | 1GHz-18GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 1879.17 | 36.29 | -6.56 | 29.73 | 54.00 | 24.27 | AV | Horizontal |
| 2 | 1882.17 | 46.74 | -6.49 | 40.25 | 74.00 | 33.75 | PK | Horizontal |
| 3 | 6169.98 | 44.32 | 7.09 | 51.41 | 74.00 | 22.59 | PK | Horizontal |
| 4 | 6235.99 | 33.07 | 7.70 | 40.77 | 54.00 | 13.23 | AV | Horizontal |
| 5 | 14400.00 | 36.79 | 16.21 | 53.00 | 74.00 | 21.00 | PK | Horizontal |
| 6 | 14400.00 | 32.26 | 16.21 | 48.47 | 54.00 | 5.53 | AV | Horizontal |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

| Test Mode: | **TM2** | Frequency Range | 1GHz-18GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |

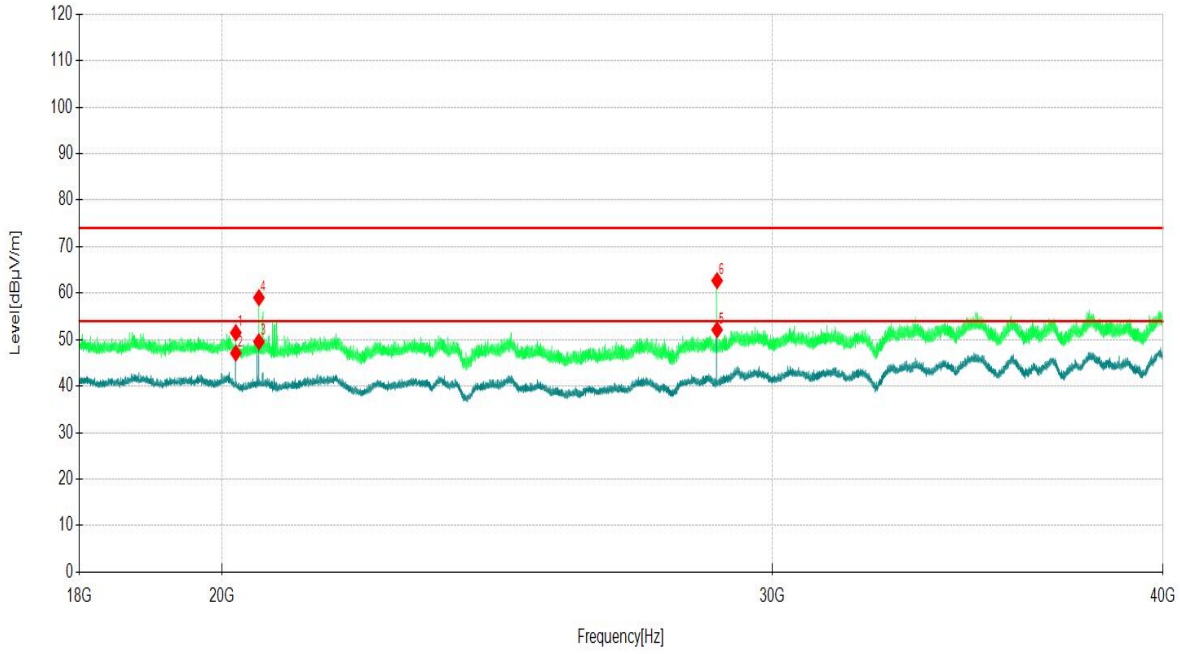



| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 2806.34 | 46.69 | -2.41 | 44.28 | 74.00 | 29.72 | PK | Vertical |
| 2 | 2810.34 | 36.04 | -2.33 | 33.71 | 54.00 | 20.29 | AV | Vertical |
| 3 | 5648.88 | 43.52 | 5.68 | 49.20 | 74.00 | 24.80 | PK | Vertical |
| 4 | 5660.88 | 33.45 | 6.18 | 39.63 | 54.00 | 14.37 | AV | Vertical |
| 5 | 14400.00 | 23.85 | 16.21 | 40.06 | 54.00 | 13.94 | AV | Vertical |
| 6 | 14400.00 | 29.30 | 16.21 | 45.51 | 74.00 | 28.49 | PK | Vertical |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

### 3.2.7 Test results(18GHz-40GHz)

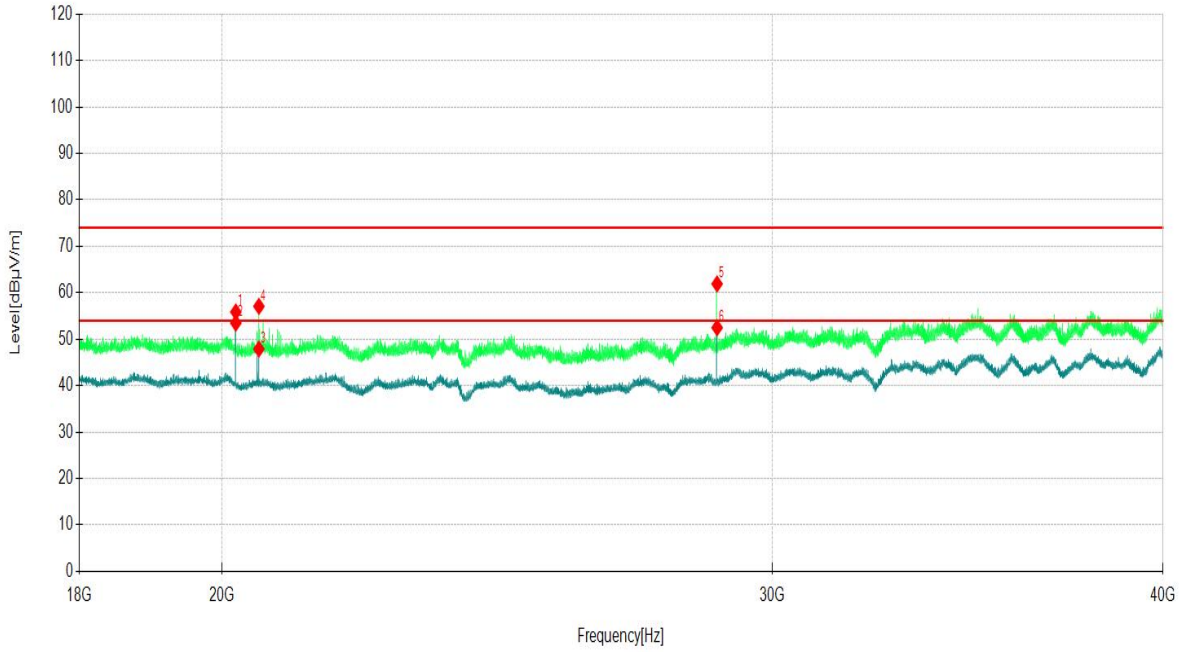
| Test Mode: | **TM1** | Frequency Range | 18GHz-40GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 20202.10 | 58.24 | -6.75 | 51.49 | 74.00 | 22.51 | PK | Horizontal |
| 2 | 20202.10 | 53.86 | -6.75 | 47.11 | 54.00 | 6.89 | AV | Horizontal |
| 3 | 20549.12 | 56.12 | -6.56 | 49.56 | 54.00 | 4.44 | AV | Horizontal |
| 4 | 20549.12 | 65.60 | -6.56 | 59.04 | 74.00 | 14.96 | PK | Horizontal |
| 5 | 28799.49 | 55.62 | -3.51 | 52.11 | 54.00 | 1.89 | AV | Horizontal |
| 6 | 28799.49 | 66.19 | -3.51 | 62.68 | 74.00 | 11.32 | PK | Horizontal |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

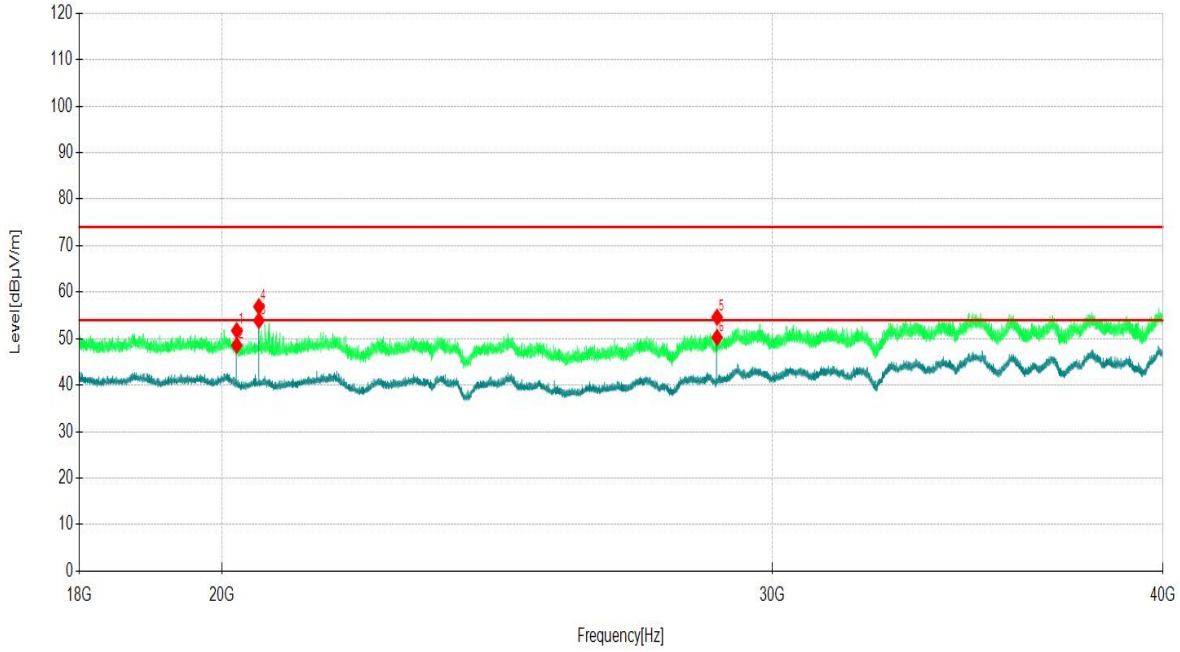
| Test Mode: | **TM1** | Frequency Range | 18GHz-40GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 20202.10 | 62.62 | -6.75 | 55.87 | 74.00 | 18.13 | PK | Vertical |
| 2 | 20202.10 | 60.23 | -6.75 | 53.48 | 54.00 | 0.52 | AV | Vertical |
| 3 | 20549.12 | 54.45 | -6.56 | 47.89 | 54.00 | 6.11 | AV | Vertical |
| 4 | 20549.12 | 63.63 | -6.56 | 57.07 | 74.00 | 16.93 | PK | Vertical |
| 5 | 28799.49 | 65.41 | -3.51 | 61.90 | 74.00 | 12.10 | PK | Vertical |
| 6 | 28799.49 | 55.99 | -3.51 | 52.48 | 54.00 | 1.52 | AV | Vertical |

**Remark:**1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

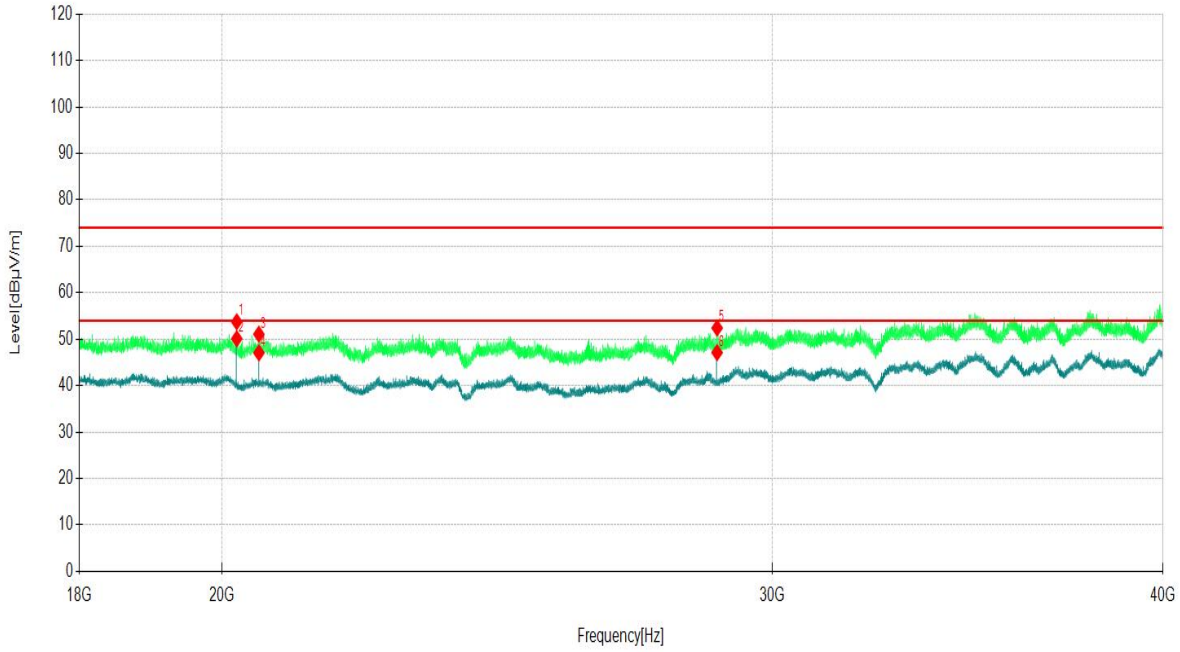
| Test Mode: | **TM2** | Frequency Range | 18GHz-40GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 20216.10 | 58.56 | -6.84 | 51.72 | 74.00 | 22.28 | PK | Horizontal |
| 2 | 20216.10 | 55.42 | -6.84 | 48.58 | 54.00 | 5.42 | AV | Horizontal |
| 3 | 20549.12 | 60.45 | -6.56 | 53.89 | 54.00 | 0.11 | AV | Horizontal |
| 4 | 20549.12 | 63.45 | -6.56 | 56.89 | 74.00 | 17.11 | PK | Horizontal |
| 5 | 28799.49 | 58.13 | -3.51 | 54.62 | 74.00 | 19.38 | PK | Horizontal |
| 6 | 28799.49 | 53.78 | -3.51 | 50.27 | 54.00 | 3.73 | AV | Horizontal |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

| Test Mode: | **TM2** | Frequency Range | 18GHz-40GHz |
|---|---|---|---|
| Detector Function | PK/AV | | |



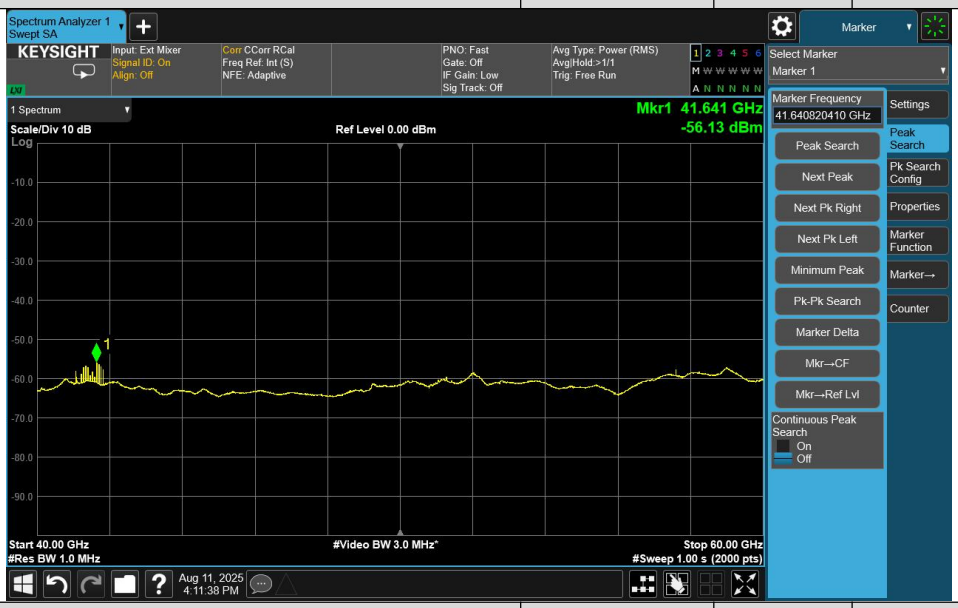

| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB/m] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 20216.10 | 60.60 | -6.84 | 53.76 | 74.00 | 20.24 | PK | Vertical |
| 2 | 20216.10 | 56.94 | -6.84 | 50.10 | 54.00 | 3.90 | AV | Vertical |
| 3 | 20548.12 | 57.63 | -6.56 | 51.07 | 74.00 | 22.93 | PK | Vertical |
| 4 | 20549.12 | 53.62 | -6.56 | 47.06 | 54.00 | 6.94 | AV | Vertical |
| 5 | 28799.49 | 55.92 | -3.51 | 52.41 | 74.00 | 21.59 | PK | Vertical |
| 6 | 28799.49 | 50.63 | -3.51 | 47.12 | 54.00 | 6.88 | AV | Vertical |

**Remark:** 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit(dBuV/m) - Level (dBuV/m)

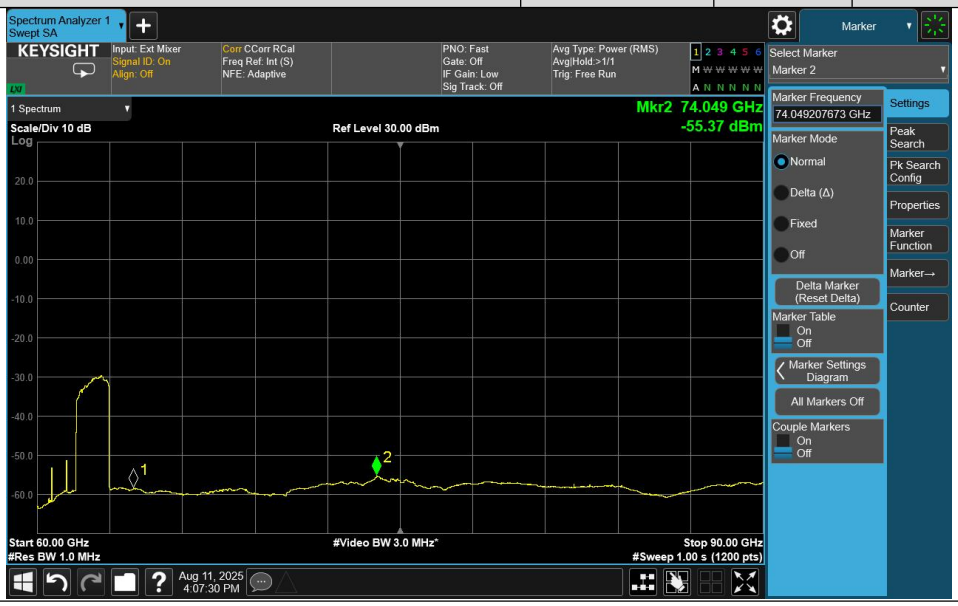
### 3.2.8 Test results(40GHz-200GHz)

Only showing the highest value, “worst case”(Vertical polarity-TM1)

| Radiated Emission, 40 GHz to 60 GHz(TM1) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -56.13 | 0.002 | 90 | Pass |

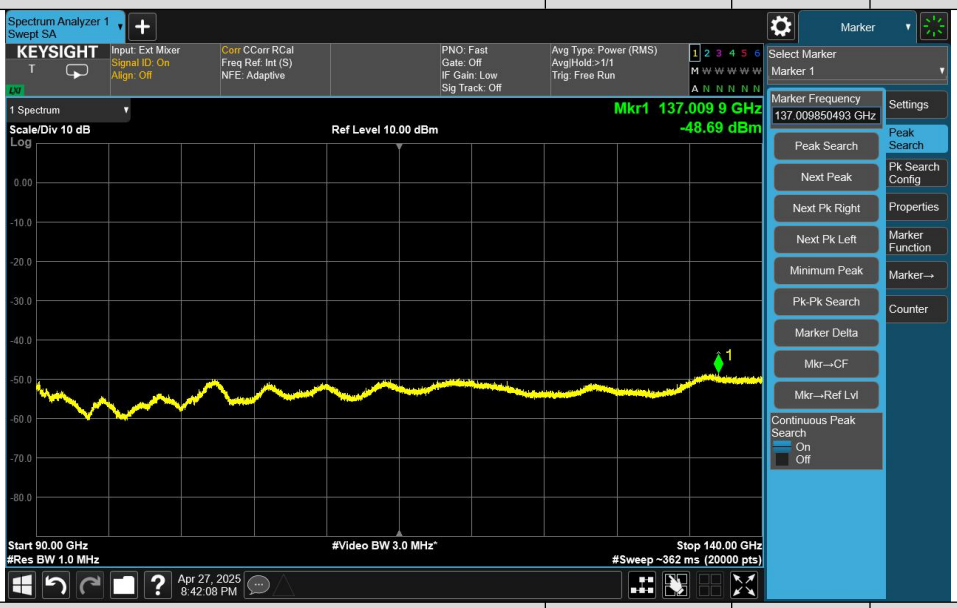



| Radiated Emission, 64 GHz to 90 GHz, Vertical Polarization | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -55.37 | 0.003 | 90 | Pass |

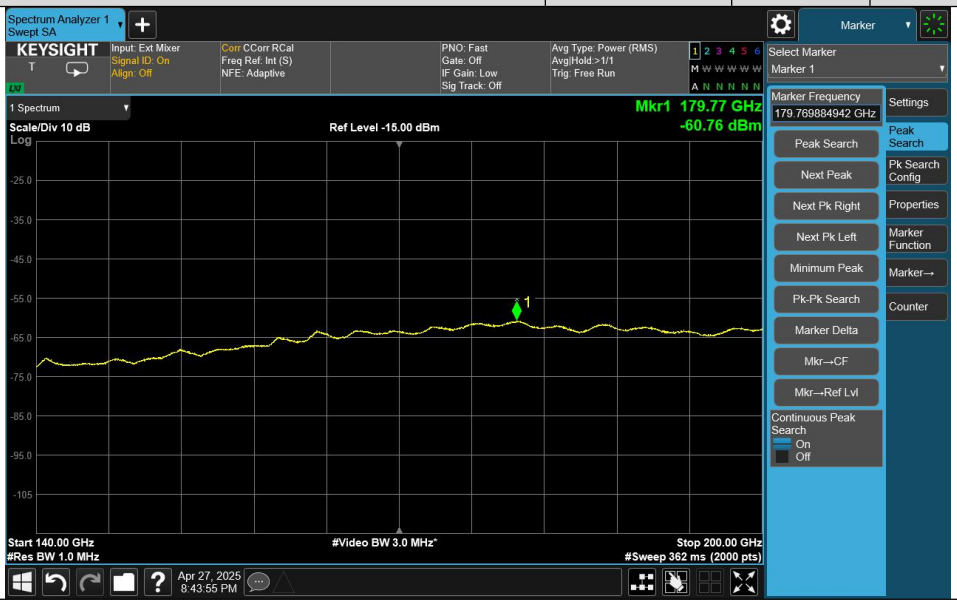



Note：Emissions = reading + factor(The factor has been built into the spectrum.)

| Radiated Emission, 90 GHz to 140 GHz(TM1) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -48.69 | 0.012 | 90 | Pass |



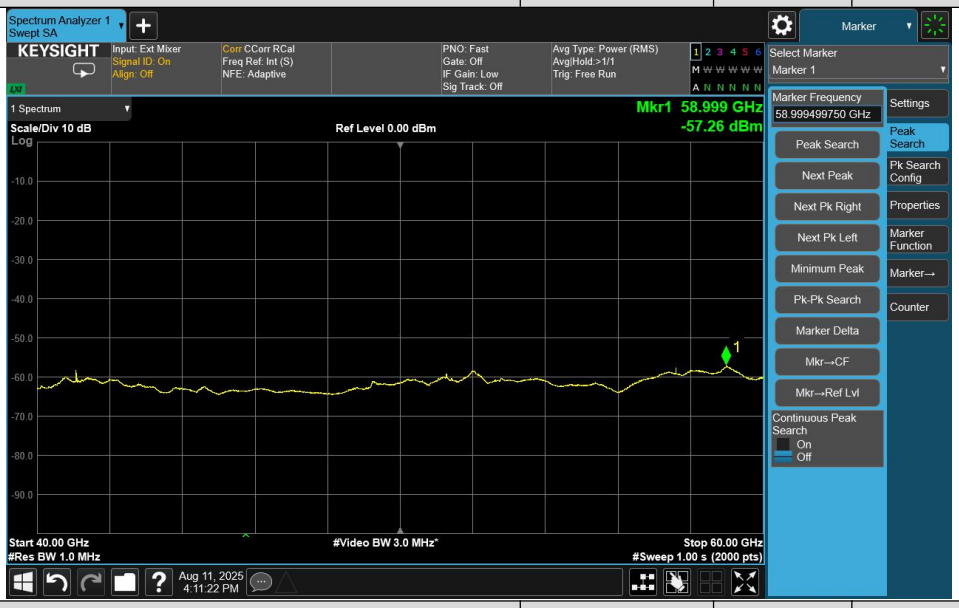

| Radiated Emission, 140 GHz to 200 GHz, Vertical Polarization | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -60.75 | 0.001 | 90 | Pass |



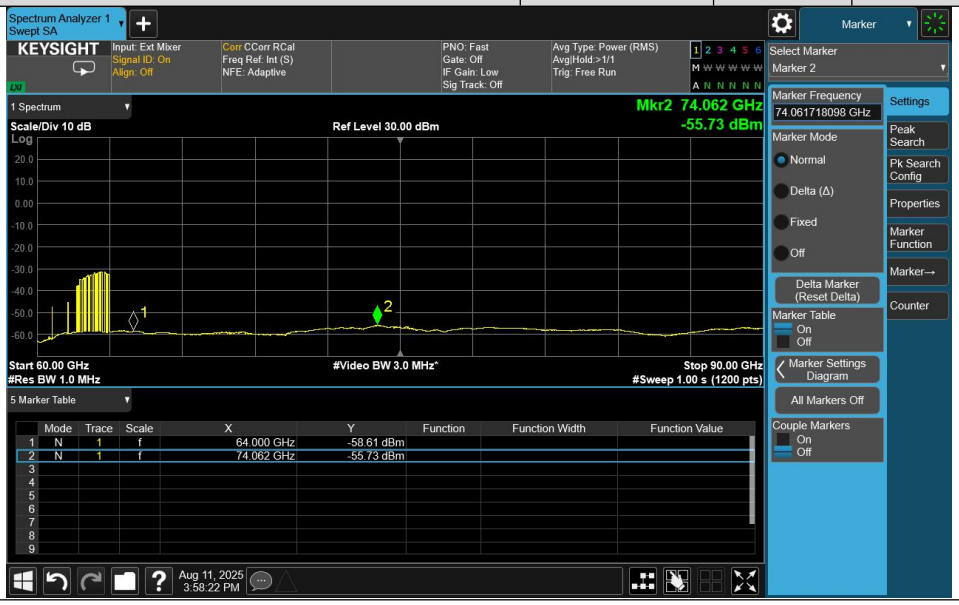

Note：Emissions = reading + factor(The factor has been built into the spectrum.)

Only showing the highest value, “worst case”(Vertical polarity-TM2)

| Radiated Emission, 40 GHz to 60 GHz(TM2) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -69.96 | 0.002 | 90 | Pass |

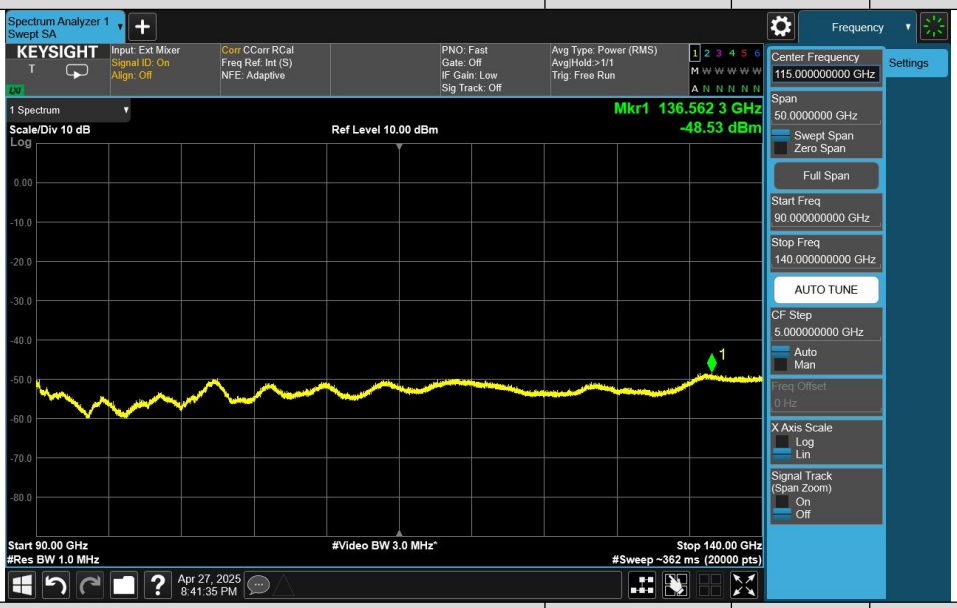



| Radiated Emission, 64GHz to 90 GHz(TM2) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -55.73 | 0.002 | 90 | Pass |

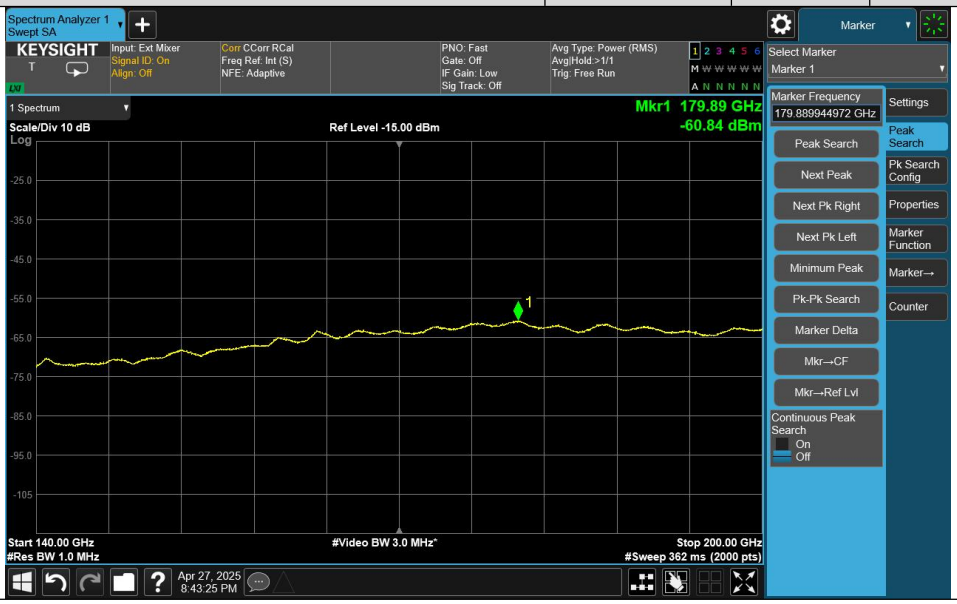



Note：Emissions = reading + factor(The factor has been built into the spectrum.)

| Radiated Emission, 90 GHz to 140 GHz(TM2) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -48.53 | 0.012 | 90 | Pass |




| Radiated Emission, 140 GHz to 200 GHz(TM2) | Emissions (dBm) | Emissions (pW/cm²) | Limit (pW/cm²) | Verdict |
|---|---|---|---|---|
| | -60.84 | 0.001 | 90 | Pass |




Note：Emissions = reading + factor(The factor has been built into the spectrum.)

## 3.3 DUTY CYCLE, OFF TIME REQUIREMENT

### 3.3.1 Limit

According to § 15.255(b)(3)

The sum of continuous transmitter off-times of at least two milliseconds shall equal at least 16.5 milliseconds within any contiguous interval of 33 milliseconds.

### 3.3.2 Test Procedure

The duty cycle was tested with the spectrum analyzer set to zero-span.

### 3.3.3 Test setup

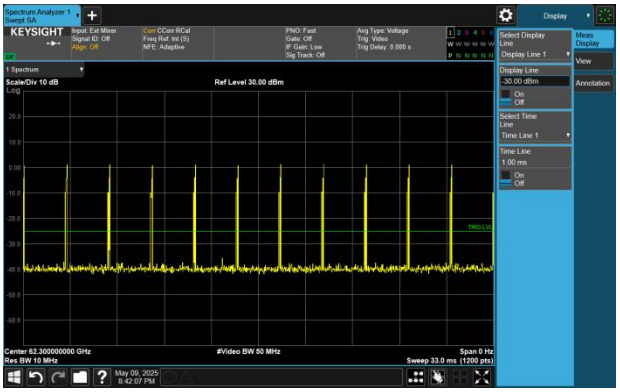
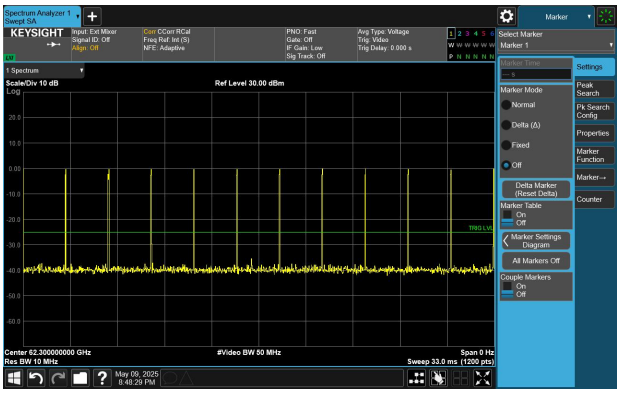
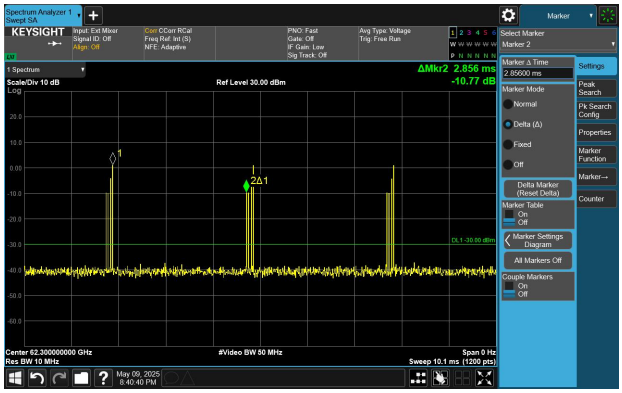
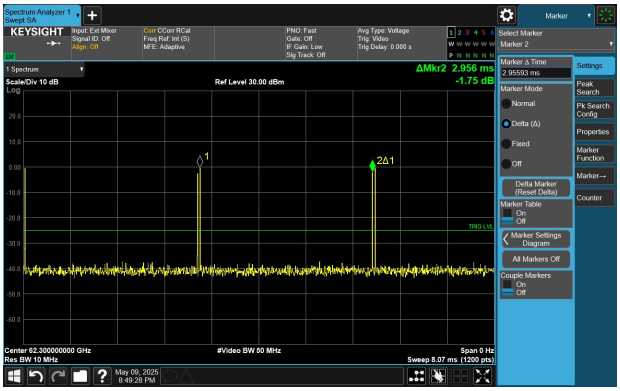
See section 2.7 of this report.

### 3.3.4 Test results

**In 33ms**

| Test Mode | Chirp off number in 33ms | Chirp off time(ms) | Off time Limit(ms) | Off Time in 33ms (ms) * | Off Time in 33ms Limit(ms) | Verdict |
|---|---|---|---|---|---|---|
| TM1 | 11 | 2.856 | ⩾2 | 31.416 | ⩾16.5 | PASS |
| TM2 | 11 | 2.956 | ⩾2 | 32.516 | ⩾16.5 | PASS |

*OFF Time in 33ms (ms) = Chirp off number in 33ms × Chirp off time(ms)

| Chirp off number in 33ms_TM1 | Chirp off number in 33ms_TM2 |
|---|---|
|  |  |
| **Chirp off time_TM1** | **Chirp off time_TM2** |
|  |  |

## 3.4 BANDWIDTH MEASUREMENT

### 3.4.1 Limits

According to § 15.215(c)

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.

According to KDB 364244 D01 Meas 15.255 Radars v01

For pulsed transmitters, the fundamental emission bandwidth is defined at the -10 dB points specified in §15.255(c)(3)

For other than pulsed radar transmitters, the fundamental emission bandwidth is presumed to be "the width of a frequency band such that, below the lower and above the upper-frequency limits, the mean powers emitted are each equal to a specified percentage β/2 of the total mean power of a given emission. Unless otherwise specified in an ITU–R Recommendation for the appropriate class of emission, the value of β/2 should be taken as 0.5%," as defined in §2.1(c) of the FCC rules. This is also known as the 99% occupied bandwidth (OBW).

According to § 15.255(b)(3)

Field disturbance sensors/radar devices deployed on unmanned aircraft may operate within the frequency band **60-64 GHz,** provided that the transmitter not exceed 20 dBm peak EIRP.

### 3.4.2 Measurement procedure

| 99% OCCUPIED BANDWIDTH MEASUREMENT PARAMETER | |
|---|---|
| Detector: | Peak |
| Resolution bandwidth: | 8 MHz (The analyzer limits maximum RBW at 8 MHz.) |
| Video bandwidth: | 50 MHz |
| Trace-Mode: | Max Hold |
| Sweep | Auto couple. |

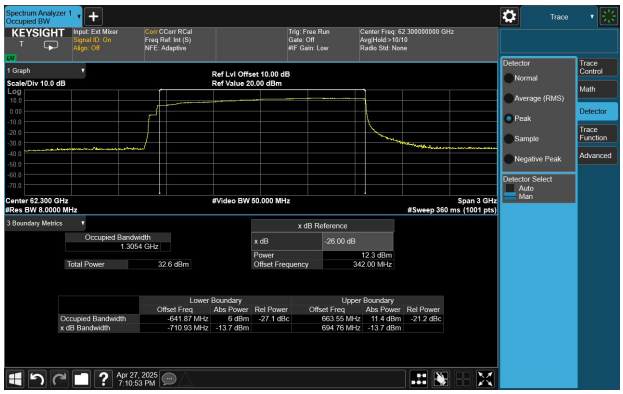
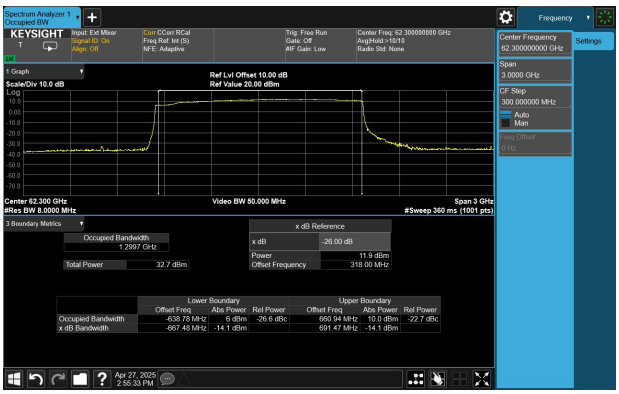
Measurement procedures:Bandwidth: ANSI C63.10-2020 6.9 / 9.3
Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower)

### 3.4.3 Test setup

See section 2.7 of this report.

### 3.4.4 Test results

| Test Mode | 99% Occupied Bandwidth Lower(GHz) | 99% Occupied Bandwidth Upper(GHz) | 99% Occupied Bandwidth (GHz) | Lower limit (GHz) | Upper limit (GHz) | Verdict |
|---|---|---|---|---|---|---|
| TM1 | 61.6581 | 62.9635 | 1.3054 | 60 | 64 | Pass |
| TM2 | 61.6612 | 62.9609 | 1.2997 | 60 | 64 | Pass |

| 99% Occupied Bandwidth_TM1 | 99% Occupied Bandwidth_TM2 |
|---|---|
|  |  |

## 3.5 EIRP POWER MEASUREMENT

### 3.5.1 Limits

According to § 15.255(b)(3)

Field disturbance sensors/radar devices deployed on unmanned aircraft may operate within the frequency band 60-64 GHz, provided that the transmitter **not exceed 20 dBm** peak EIRP.

### 3.5.2 Measurement procedure

Test Settings
1. Radiated power measurements are performed using the signal analyzer's swept mode measurement capability for signals with continuous operation.
2. RBW = 1MHz
3. VBW ≥ 3 x RBW
4. Span as required, enough to observe the fundamental spike around 61.5 GHz
5. No. of sweep points ≥ 2 x span / RBW
6. Detector and Trace mode = Suitable for peak and average measurements respectively over 100 sweeps
7. The trace was allowed to stabilize

**Method of measurement:**
Refer as TCBC Workshop(2023.10.25) Part 15.255 Rules Amendment

**FMCW desensitization factor:**
Desensitization factor and sweep time considerations for measurements of FMCW signals in ANSI C63.10-2020 Annex L
The derivation of the FMCW desensitization factor is given in Keysight Application Note 5952-1039 Appendix B.

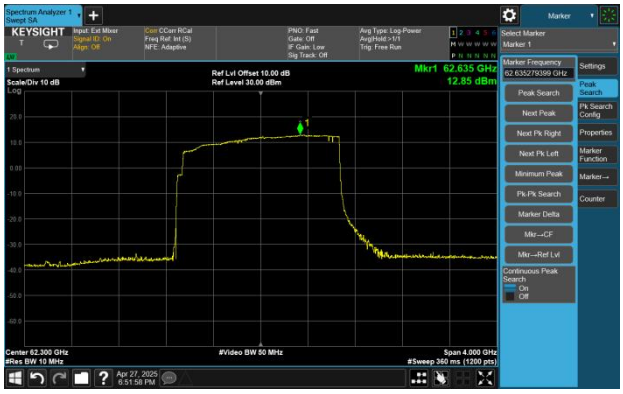
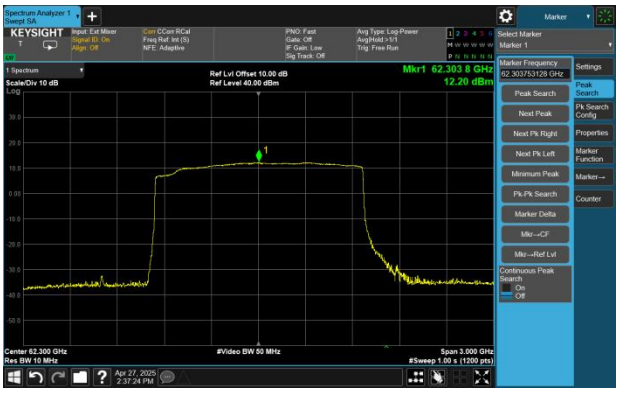
### 3.5.3 Test setup

See section 2.7 of this report.

### 3.5.4 Test results

| Test Mode: | Level (dBm) | Desensitization factor (dB) | Peak EIRP (dBm) | Peak EIRP Limit(dBm) | Verdict |
|---|---|---|---|---|---|
| TM1 | 12.85 | 0 | 12.85 | 20 | PASS |
| TM2 | 12.20 | 0 | 12.20 | 20 | PASS |

Peak EIRP (dBm) = desensitization factor (dB) + Level(dBm)

| Peak EIRP_TM1 | Peak EIRP_TM2 |
|---|---|
|  |  |

FMCW desensitization factor =-20 * Log( α )

$$\alpha = \frac{1}{\sqrt[4]{1+\left(\frac{2\ln(2)}{\pi}\right)^2\left(\frac{F_s}{T_s B^2}\right)^2}}$$

$F_s$ = Sweep width(99%OBW)

$T_s$ = Sweep time(Chirp)

B = 3 dB IF bandwidth(RBW)

## 3.6 FREQUENCY STABILITY

### 3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency range, 60GHz – 64GHz.

### 3.6.2 Measurement Procedure

Method of measurement: Refer as ANSI C63.10-2020 clause 9.5

### 3.6.3 Test setup

See section 2.7 of this report.

### 3.6.4 Test results

TM1

| FREQUENCY STABILITY | | | | | |
|---|---|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | FL (GHz) | FH (GHz) | Limit (GHz) | Result |
| 50 | Normal Voltage | 61.6615 | 62.9587 | 60-64GHz | PASS |
| 40 | | 61.6609 | 62.9582 | | |
| 30 | | 61.6606 | 62.9606 | | |
| 20 | | 61.6618 | 62.9567 | | |
| 10 | | 61.6616 | 62.9590 | | |
| 0 | | 61.6603 | 62.9568 | | |
| -10 | | 61.6621 | 62.9576 | | |
| -20 | | 61.6606 | 62.9579 | | |
| -30 | | 61.6628 | 62.9585 | | |
| 20 | 115% | 61.6604 | 62.9593 | | |
| 20 | 85% | 61.6612 | 62.9583 | | |

TM2

| FREQUENCY STABILITY | | | | | |
|---|---|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | FL (GHz) | FH (GHz) | Limit (GHz) | Result |
| 50 | Normal Voltage | 61.6658 | 62.9575 | 60-64GHz | PASS |
| 40 | | 61.6672 | 62.9582 | | |
| 30 | | 61.6656 | 62.9586 | | |
| 20 | | 61.6667 | 62.9573 | | |
| 10 | | 61.6661 | 62.9594 | | |
| 0 | | 61.6657 | 62.9567 | | |
| -10 | | 61.6678 | 62.9593 | | |
| -20 | | 61.6668 | 62.9576 | | |
| -30 | | 61.6663 | 62.9559 | | |
| 20 | 115% | 61.6649 | 62.9584 | | |
| 20 | 85% | 61.6646 | 62.9584 | | |

## 3.7 ANTENNA REQUIREMENT

### 3.7.1 LIMITS

For intentional device, according to FCC 47 CFR Section 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.

### 3.7.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is Microstrip Antenna and that no antenna other than that furnished by the responsible party shall be used with the device

# 4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

,

# 5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

**------ End of the Report ------**

# Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code：518110 Tel：0755-23763060-8805

Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn

http://www.cvc.org.cn