

# TEST REPORT

**Application No.:** KSCR2609002526AT  
**FCC ID:** 2AOKB-T8L60  
**Applicant:** Anker Innovations Limited  
**Address of Applicant:** Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road Hong Kong  
**Manufacturer:** Anker Innovations Limited  
**Address of Manufacturer:** Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road Hong Kong  
**Equipment Under Test (EUT):**  
**EUT Name:** Anker eufy Tracklight Cam S1  
**Model No.:** T8L60  
**Trade Mark:** ANKER, ANKER eufy, eufy, eufy Security  
**FCC ID:** 2AOKB-T8L60  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.255  
**Date of Receipt:** 2026-09-25  
**Date of Test:** 2026-09-26 to 2026-09-29  
**Date of Issue:** 2026-09-29

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2026-09-29 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                              |  |
|--------------------------|--|------------------------------|--|
| Authorized for issue by: |  |                              |  |
| Tested By                |  | <i>Tommie Tang</i>           |  |
|                          |  | Tommie_Tang/Project Engineer |  |
| Approved By              |  | <i>Terry Hou</i>             |  |
|                          |  | Terry Hou /Reviewer          |  |

## 2 Test Summary

| Radio Spectrum Technical Requirement |        |                                  |        |
|--------------------------------------|--------|----------------------------------|--------|
| Item                                 | Method | FCC Requirement                  | Result |
| Antenna Requirement                  | N/A    | 47 CFR Part 15, Subpart C 15.203 | Pass   |

N/A: Not applicable

| Radio Spectrum Matter Part                                              |                                                 |                                                        |        |
|-------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|--------|
| Item                                                                    | Method                                          | Requirement                                            | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)                     | ANSI C63.10-2020+Cor.1-2023 Section 6.2         | 47 CFR Part 15, Subpart C 15.207                       | PASS   |
| Transmitter power and Transmitter off-times                             | ANSI C63.10-2020+COR.1-2023 Section 9.2.1/9.2.2 | 47 CFR Part 15, Subpart C 15.255(c)(2)(iii)(B)         | PASS   |
| Occupied bandwidth                                                      | ANSI C63.10-2020+COR.1-2023 Section 9.4         | 47 CFR Part 15, Subpart C 15.215(c), 15.255(c)(2)(iii) | PASS   |
| Radiated spurious emissions below 40 GHz                                | ANSI C63.10-2020+COR.1-2023 Section 9.11        | 47 CFR Part 15, Subpart C 15.255(d)(2)                 | PASS   |
| Radiated emissions outside assigned band and above 40 GHz up to 200 GHz | ANSI C63.10-2020+COR.1-2023 Section 9.10        | 47 CFR Part 15, Subpart C 15.255(d)(3)                 | PASS   |
| Frequency stability                                                     | ANSI C63.10-2020+COR.1-2023 Section 9.5         | 47 CFR Part 15, Subpart C 15.255(f)                    | PASS   |

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## 4 General Information

### 4.1 Details of E.U.T.

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Power supply:        | Input: DC5V 3A<br>Rechargeable battery DC3.6V,15000mAh,<br>Charged via USB-C port |
| Operation Frequency: | 57GHz-64GHz                                                                       |
| Modulation Type:     | FMCW                                                                              |
| Antenna Type:        | AiP Antenna                                                                       |
| Antenna Gain:        | 7.17dBi                                                                           |
| Tchirp(us):          | 29                                                                                |

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

| Description | Manufacturer                                        | Model No.    | Serial No. |
|-------------|-----------------------------------------------------|--------------|------------|
| Adapter     | Sichuan Jiuzhou<br>Electronic<br>Technology Co.,Ltd | DYS05200CQ-U | /          |

### 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $8.4 \times 10^{-8}$    |
| 2   | Occupied Bandwidth              | 3%                      |
| 3   | RF Power Density                | 2.9dB                   |
| 4   | RF Radiated Power               | 5.2dB (Below 1GHz)      |
|     |                                 | 5.9dB (Above 1GHz)      |
| 5   | Radiated Spurious Emission Test | 4.2dB (Below 30MHz)     |
|     |                                 | 4.5dB (30MHz-1GHz)      |
|     |                                 | 5.1dB (1GHz-18GHz)      |
|     |                                 | 5.4dB (Above 18GHz)     |
| 6   | Temperature Test                | 1°C                     |
| 7   | Humidity Test                   | 3%                      |
| 8   | Supply Voltages                 | 1.5%                    |
| 9   | Time                            | 3%                      |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3. Sample source: sent by customer.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

## 5 Equipment List

| Item                                         | Equipment                    | Manufacturer       | Model          | Inventory No | Cal Date    | Cal. Due Date |
|----------------------------------------------|------------------------------|--------------------|----------------|--------------|-------------|---------------|
| <b>Conducted Emission at Mains Terminals</b> |                              |                    |                |              |             |               |
| 1                                            | EMI Test Receive             | R&S                | ESCI           | KS301196     | 07/06/2026  | 07/05/2027    |
| 2                                            | LISN                         | R&S                | ENV216         | KS301197     | 01/08/2026  | 01/07/2027    |
| 3                                            | LISN                         | Schwarzbeck        | NNLK 8129      | KS301091     | 01/08/2026  | 01/07/2027    |
| 4                                            | Pulse Limiter                | R&S                | ESH3-Z2        | KUS1902E001  | 12/18/2025  | 12/17/2026    |
| 5                                            | CE test Cable                | Thermax            | /              | CZ301102     | 12/18/2025  | 12/17/2026    |
| 6                                            | Software                     | Faratronic         | E3             | /            | N.C.R       | N.C.R         |
| <b>RF Radiated Test</b>                      |                              |                    |                |              |             |               |
| 1                                            | Spectrum Analyzer            | R&S                | FSV40          | KUS1806E003  | 07/06/2026  | 07/05/2027    |
| 2                                            | PXA Spectrum Analyzer        | KEYSIGHT           | N9030B         | KSEM021-1    | 12/17/2025  | 12/16/2026    |
| 3                                            | Signal Generator             | Agilent            | E8257C         | KS301066     | 07/07/2026  | 07/06/2027    |
| 4                                            | Loop Antenna                 | COM-POWER          | AL-130R        | KUS1806E001  | 01/11/2026  | 01/10/2028    |
| 5                                            | Bilog Antenna                | TESEQ              | CBL 6112D      | KUS1806E005  | 07/07/2026  | 07/06/2027    |
| 6                                            | Amplifier(1GHz~18GHz)        | Tonscend           | TAP01018048    | KSEM077      | 12/18/2025  | 12/17/2026    |
| 7                                            | Horn-antenna(1-18GHz)        | Schwarzbeck        | BBHA9120D      | KS301079     | 01/11/2026  | 01/10/2028    |
| 8                                            | Amplifier(18~40GHz)          | PANSHAN TECHNOLOGY | LNA180400G40   | KSEM038      | 07/07/2026  | 07/06/2027    |
| 9                                            | Horn Antenna(18-40GHz)       | Schwarzbeck        | BBHA9170       | CZ301058     | 01/11/2026  | 01/10/2028    |
| 10                                           | Horn-antenna(40-60GHz)       | ERAVANT            | SAZ-2410-19-S1 | KSEM003-1    | 02/02/2021* | 02/01/2031**  |
| 11                                           | Horn-antenna(50-75GHz)       | ERAVANT            | SAZ-2410-15-S1 | KSEM003-2    | 02/02/2021* | 02/01/2031**  |
| 12                                           | Horn-antenna(50-75GHz)       | ERAVANT            | SAZ-2410-15-S1 | KSEM003-7    | 12/14/2022* | 12/13/2032**  |
| 13                                           | Horn-antenna(60-90GHz)       | ERAVANT            | SAZ-2410-12-S1 | KSEM003-8    | 12/14/2022* | 12/13/2032**  |
| 14                                           | Horn-antenna(75-110GHz)      | ERAVANT            | SAZ-2410-10-S1 | KSEM003-3    | 02/02/2021* | 02/01/2031**  |
| 15                                           | Horn-antenna(90-140GHz)      | ERAVANT            | SAZ-2410-08-S1 | KSEM003-9    | 12/14/2022* | 12/13/2032**  |
| 16                                           | Horn-antenna(110-170GHz)     | ERAVANT            | SAZ-2410-06-S1 | KSEM003-4    | 02/02/2021* | 02/01/2031**  |
| 17                                           | Horn-antenna(140-220GHz)     | ERAVANT            | SAZ-2410-05-S1 | KSEM003-5    | 02/02/2021* | 02/01/2031**  |
| 18                                           | Horn-antenna(140-220GHz)     | ERAVANT            | SAZ-2410-05-S1 | KSEM003-10   | 12/14/2022* | 12/13/2032**  |
| 19                                           | Horn-antenna(220-325GHz)     | ERAVANT            | SAR-2309-03-S2 | KSEM003-6    | 02/02/2021* | 02/01/2031**  |
| 20                                           | Extended waveguide(40-60GHz) | ERAVANT            | SWG-19025-FB   | KSEM004-1    | 02/02/2021* | 02/01/2031**  |
| 21                                           | Extended waveguide(50-75GHz) | ERAVANT            | SWG-15025-FB   | KSEM004-2    | 02/02/2021* | 02/01/2031**  |

|    |                                 |               |                        |            |             |              |
|----|---------------------------------|---------------|------------------------|------------|-------------|--------------|
| 22 | Extended waveguide(50-75GHz)    | ERAVANT       | SWG-15025-FB           | KSEM004-7  | 12/14/2022* | 12/13/2032** |
| 23 | Extended waveguide(60-90GHz)    | ERAVANT       | SWG-12025-FB           | KSEM004-8  | 12/14/2022* | 12/13/2032** |
| 24 | Extended waveguide(75-110GHz)   | ERAVANT       | SWG-10025-FB           | KSEM004-3  | 02/02/2021* | 02/01/2031** |
| 25 | Extended waveguide(90-140GHz)   | ERAVANT       | SWG-08025-FB           | KSEM004-9  | 12/14/2022* | 12/13/2032** |
| 26 | Extended waveguide(110-170GHz)  | ERAVANT       | SWG-06025-FB           | KSEM004-4  | 02/02/2021* | 02/01/2031** |
| 27 | Extended waveguide(140-220GHz)  | ERAVANT       | SWG-05025-FB           | KSEM004-5  | 02/02/2021* | 02/01/2031** |
| 28 | Extended waveguide(140-220GHz)  | ERAVANT       | SWG-05025-FB           | KSEM004-10 | 12/14/2022* | 12/13/2032** |
| 29 | Extended waveguide(220-325GHz)  | ERAVANT       | SWG-03025-FB           | KSEM004-6  | 02/02/2021* | 02/01/2031** |
| 30 | Harmonic mixer(40-60GHz)        | ERAVANT       | STH-19SF-S1            | KSEM005-2  | 10/01/2020* | 09/30/2030** |
| 31 | Harmonic Mixer(50-75GHz)        | VDI           | SAX WR15               | KSEM007-1  | 08/23/2023* | 08/23/2033** |
| 32 | Harmonic Mixer(60-90GHz)        | VDI           | SAX WR12               | KSEM007-2  | 08/23/2023* | 08/23/2033** |
| 33 | Harmonic mixer(90-140GHz)       | VDI           | SAX WR8.0              | KSEM007-3  | 08/23/2023* | 08/23/2033** |
| 34 | Harmonic mixer(140-220GHz)      | VDI           | SAX WR5.1              | KSEM007-4  | 08/23/2023* | 08/23/2033** |
| 35 | Harmonic mixer(220-325GHz)      | ERAVANT       | HM 220-325             | KSEM005-4  | 04/20/2021* | 04/19/2031** |
| 36 | Upconverter                     | Talent        | TMAM-060090-0612-12-AC | KSEM043    | 01/18/2022* | 01/17/2032** |
| 37 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J           | KSEM024-4  | 12/30/2025  | 12/29/2026   |
| 38 | Measurement Software            | Tonscend      | JS32-RE V5.0.0.1       | /          | NCR         | NCR          |
| 39 | Measurement Software            | Tonscend      | JS32-RSE V5.0.0.0      | /          | NCR         | NCR          |
| 40 | Software                        | ESE           | E3_V 6.111221a         | /          | NCR         | NCR          |

\*Calibration date provided by the equipment manufacturer.

\*\*Calibration every ten years. During this period, there will be daily check files for the equipment and the requirements for operators will be clearly defined through SOP.

## **6 Radio Spectrum Technical Requirement**

### **6.1 Antenna Requirement**

#### **6.1.1 Test Requirement:**

FCC 47 CFR Part 15C Section 15.203

#### **6.1.2 Conclusion**

FCC Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is AiP Antenna and no consideration of replacement.

Antenna location: Refer to EUT Photos.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2

Limit:

| Frequency of emission(MHz)                                             | Conducted limit(dBμV) |           |
|------------------------------------------------------------------------|-----------------------|-----------|
|                                                                        | Quasi-peak            | Average   |
| 0.15-0.5                                                               | 66 to 56*             | 56 to 46* |
| 0.5-5                                                                  | 56                    | 46        |
| 5-30                                                                   | 60                    | 50        |
| *Decreases with the logarithm of the frequency.                        |                       |           |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |                       |           |

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

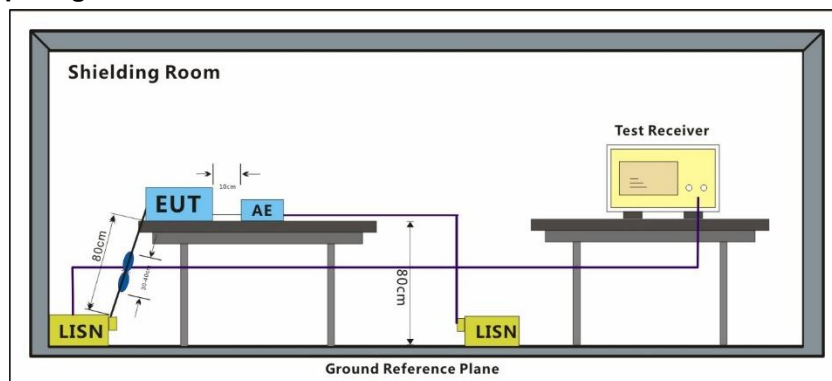
Humidity: 48.8 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                |
|-----------------------|-----------|--------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting mode. |

#### 7.1.3 Test Setup Diagram

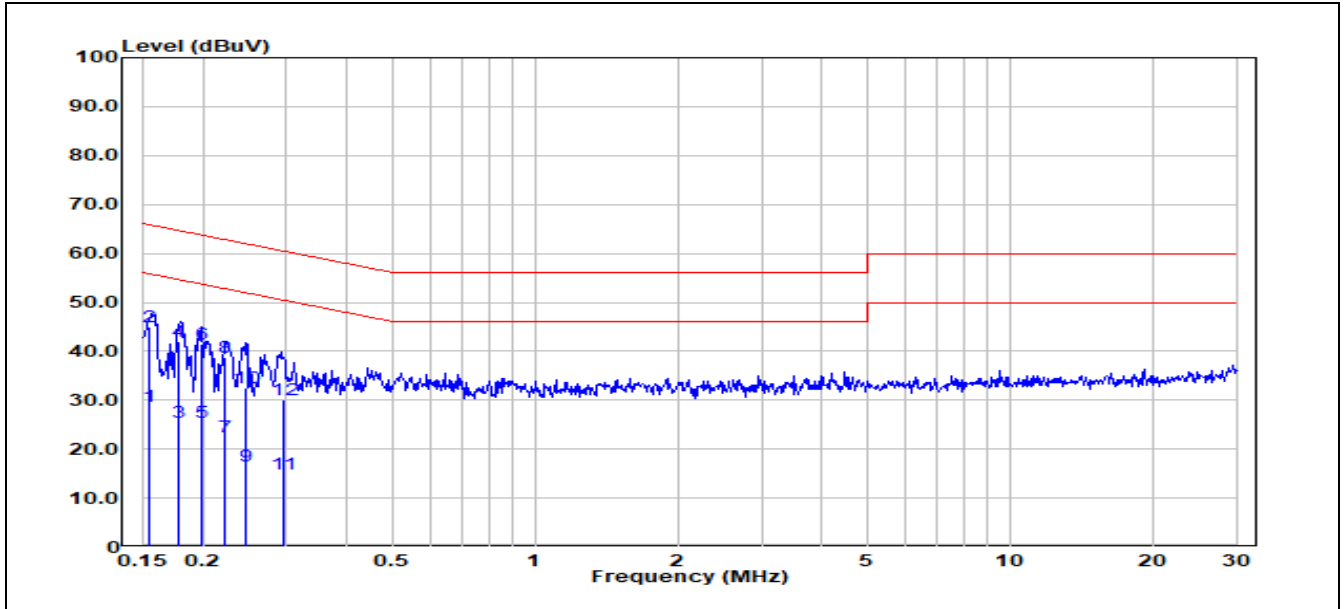


#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

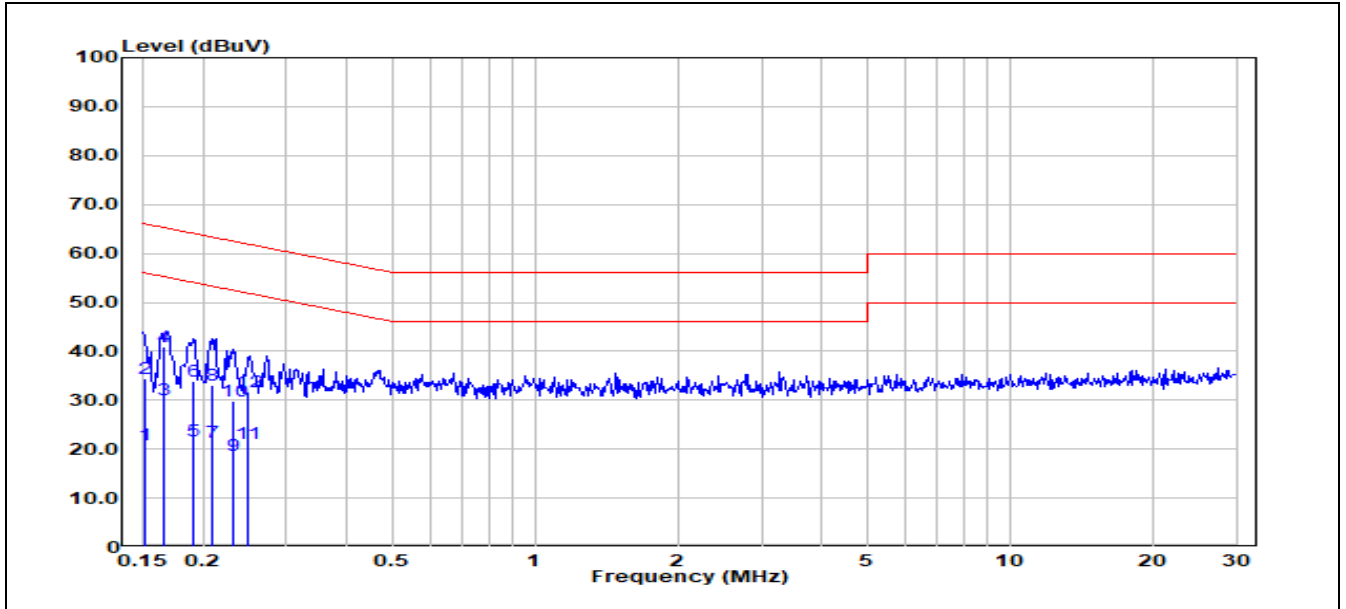
Remark: Level=Read Level+ Cable Loss+ LISN Factor

Test Mode: 00; Line: Live line



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark  |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|---------|
| 1   | 0.1544             | 8.61              | 20.13                 | 28.74            | 55.76           | -27.02         | Average |
| 2   | 0.1544             | 24.95             | 20.13                 | 45.08            | 65.76           | -20.68         | QP      |
| 3   | 0.1783             | 5.45              | 20.09                 | 25.54            | 54.56           | -29.02         | Average |
| 4   | 0.1783             | 21.98             | 20.09                 | 42.07            | 64.56           | -22.49         | QP      |
| 5   | 0.1984             | 5.34              | 20.11                 | 25.45            | 53.68           | -28.23         | Average |
| 6   | 0.1984             | 21.43             | 20.11                 | 41.54            | 63.68           | -22.14         | QP      |
| 7   | 0.2215             | 2.42              | 20.08                 | 22.50            | 52.76           | -30.26         | Average |
| 8   | 0.2215             | 18.65             | 20.08                 | 38.73            | 62.76           | -24.03         | QP      |
| 9   | 0.2457             | -3.52             | 20.05                 | 16.53            | 51.90           | -35.37         | Average |
| 10  | 0.2457             | 12.59             | 20.05                 | 32.64            | 61.90           | -29.26         | QP      |
| 11  | 0.2952             | -5.03             | 20.06                 | 15.03            | 50.38           | -35.35         | Average |
| 12  | 0.2952             | 9.89              | 20.06                 | 29.95            | 60.38           | -30.43         | QP      |

Test Mode: 00; Line: Neutral Line



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark  |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|---------|
| 1   | 0.1511             | 0.57              | 20.19                 | 20.76            | 55.94           | -35.18         | Average |
| 2   | 0.1511             | 14.23             | 20.19                 | 34.42            | 65.94           | -31.52         | QP      |
| 3   | 0.1656             | 9.86              | 20.19                 | 30.05            | 55.18           | -25.13         | Average |
| 4   | 0.1656             | 20.77             | 20.19                 | 40.96            | 65.18           | -24.22         | QP      |
| 5   | 0.1899             | 1.44              | 20.13                 | 21.57            | 54.04           | -32.47         | Average |
| 6   | 0.1899             | 13.73             | 20.13                 | 33.86            | 64.04           | -30.18         | QP      |
| 7   | 0.2094             | 1.18              | 20.10                 | 21.28            | 53.23           | -31.95         | Average |
| 8   | 0.2094             | 13.06             | 20.10                 | 33.16            | 63.23           | -30.07         | QP      |
| 9   | 0.2308             | -1.34             | 20.09                 | 18.75            | 52.42           | -33.67         | Average |
| 10  | 0.2308             | 9.60              | 20.09                 | 29.69            | 62.42           | -32.73         | QP      |
| 11  | 0.2484             | 1.08              | 20.08                 | 21.16            | 51.81           | -30.65         | Average |
| 12  | 0.2484             | 11.68             | 20.08                 | 31.76            | 61.81           | -30.05         | QP      |

## 7.2 Occupied bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215(c),15.255(c)(2)(iii)  
 Test Method: ANSI C63.10-2020+COR.1-2023 Section 9.4  
 Limit: 57-64GHz

### 7.2.1 E.U.T. Operation

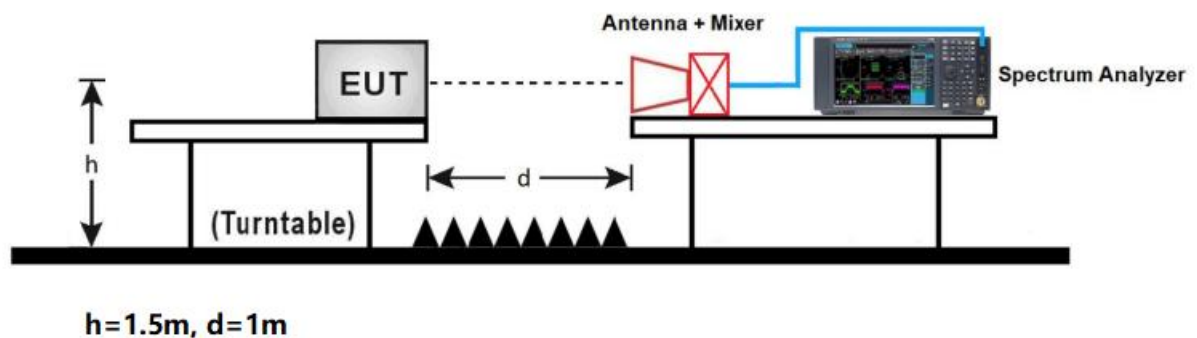
Operating Environment:

Temperature: 24.1 °C Humidity: 51.2 % RH Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                |
|--------------------------|--------------|--------------------------------------------|
| Final test               | 00           | TX mode_Keep the EUT in transmitting mode. |

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

- 1) Place the EUT on the table and set it in the transmitting mode
- 2) SA set RBW=1%~5% OBW, VBW=3\*RBW and Detector=Peak, or a minimum of 1 MHz if this is not possible due to a large OBW.
- 3) Measure and record the result of 99% bandwidth

Please Refer to Appendix for Details

## 7.3 Transmitter power and Transmitter off-times

|                  |                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | 47 CFR Part 15, Subpart C 15.255(c)(2)(iii)(B)                                                                                                                                                                |
| Test Method:     | ANSI C63.10-2020+COR.1-2023 Section 9.2.1, 9.2.2                                                                                                                                                              |
| Limit:           | The peak EIRP shall not exceed 20 dBm, and 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. |

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

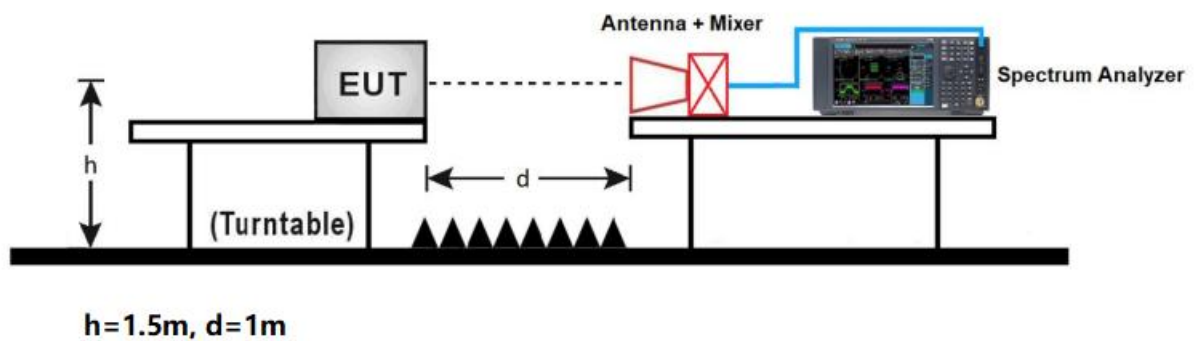
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                |
|-----------------------|-----------|--------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting mode. |

### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

- 1) Place the EUT on the table and set it in the transmitting mode
- 2) SA set RBW=1MHz , VBW=3\*RBW , Detector=Peak/Average, Trace: Mask Hold, Peak Search
- 3) The EUT was turned from 0 degrees to 360 degrees to find the maximum reading.

Please Refer to Appendix for Details

## 7.4 Radiated spurious emissions below 40 GHz

Test Requirement

47 CFR Part 15, Subpart C 15.255(d)(2)

Test Method:

ANSI C63.10-2020+COR.1-2023 Section 9.11

Limit:

### Below 30MHz

| Frequency       | Field Strength (μV/m) | Measurement Distance (metres) |
|-----------------|-----------------------|-------------------------------|
| 9 - 490 kHz     | 2,400/F (kHz)         | 300                           |
| 490 - 1,705 kHz | 24,000/F (kHz)        | 30                            |
| 1.705-30 MHz    | 30                    | 30                            |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### Above 30MHz

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (metres) |
|-----------------|-----------------------|-------------------------------|
| 30-88           | 100**                 | 3                             |
| 88-216          | 150**                 | 3                             |
| 216-960         | 200**                 | 3                             |
| Above 960       | 500                   | 3                             |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

| Frequency (MHz) | Field strength at 3 m, dB(μV/m)* |                 |                 |
|-----------------|----------------------------------|-----------------|-----------------|
|                 | Within restricted bands          |                 |                 |
|                 | Peak                             | Quasi Peak      | Average         |
| 0.009 - 0.090   | 148.5 - 128.5                    | NA              | 128.5 - 108.5** |
| 0.090 - 0.110   | NA                               | 108.5 - 106.8** | NA              |
| 0.110 - 0.490   | 126.8 - 113.8                    | NA              | 106.8 - 93.8**  |
| 0.490 - 1.705   | NA                               | 73.8 - 63.0**   | NA              |
| 1.705 - 30.0*   |                                  | 69.5            |                 |
| 30 - 88         |                                  | 40.0            |                 |
| 88 - 216        |                                  | 43.5            |                 |
| 216 - 960       |                                  | 46.0            |                 |
| Above 960       |                                  | 54.0            |                 |
| 1000 - 200000   | 74.0                             | N/A             | 54.0            |

\*- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:

$$\text{LimS2} = \text{LimS1} + 20 \log (S1/S2),$$

where S1 and S2 - standard defined and test distance respectively in meters.

\*\* - The limit decreases linearly with the logarithm of frequency.

Note: The above field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency but not exceeding 40 GHz for intentional radiators operated below 10 GHz and up to the fifth harmonic of the highest fundamental frequency but not exceeding 200 GHz for intentional radiators operated above 30 GHz.

## 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

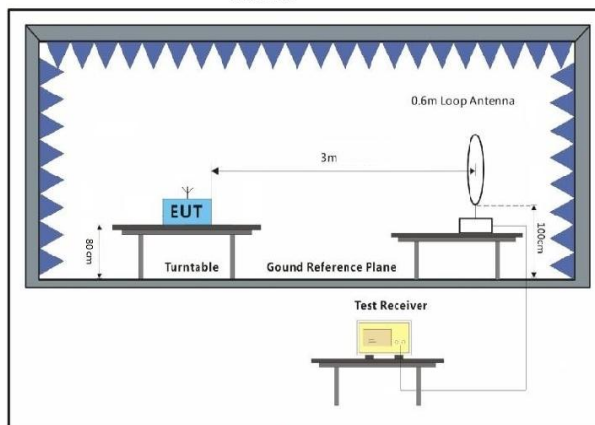
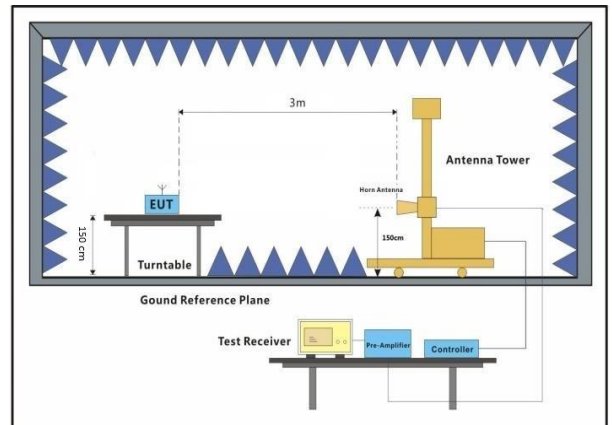
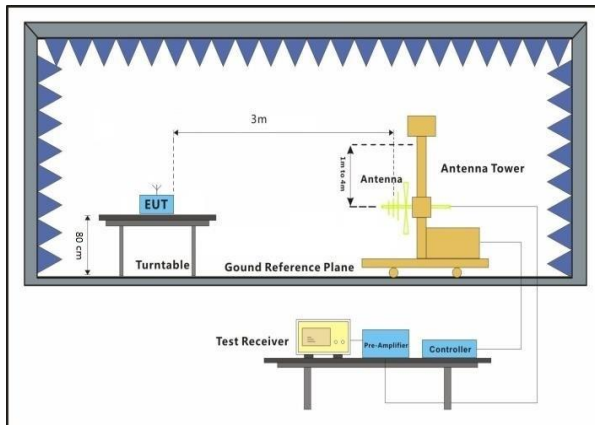
Humidity: 48.0 % RH

Atmospheric Pressure: 1010 mbar

## 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                |
|-----------------------|-----------|--------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting mode. |

## 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For 1-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The antenna 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 the same height (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark 1:  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: Scan from 9kHz to 30MHz, the disturbance was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Please Refer to Appendix for Details

## 7.5 Radiated spurious emissions above 40 GHz

Test Requirement 47 CFR Part 15, Subpart C 15.255(d)(3)  
Test Method: ANSI C63.10-2020+COR.1-2023 Section 9.10  
Limit:

### Above 40GHz

| Frequency (GHz) | Power density at 3 m distance (pW/cm <sup>2</sup> ) | Distance (m) | Field strength (dBuV/m)*, peak | Field strength (dBuV/m)*, average |
|-----------------|-----------------------------------------------------|--------------|--------------------------------|-----------------------------------|
| 40 - 200        | 90                                                  | 3.0          | 105.31                         | 85.31                             |
| 40 - 200        | 90                                                  | 1.0          | 114.85**                       | 94.85**                           |

\* - Field strength was calculated per equation (26) of ANSI C63.10-2013 section 9 as follows:  $E = \sqrt{PD \times 377}$ , where PD is the power density at the distance specified by the limit in W/m<sup>2</sup>, E- field strength in V/m.

\*\* - The limit for other test distance was calculated using the inverse distance extrapolation factor as follows:  
 $\text{LimS2} = \text{LimS1} + 20 \log (S1/S2)$ , where S1 and S2 - standard defined and test distance respectively in meters.

### 7.5.1 E.U.T. Operation

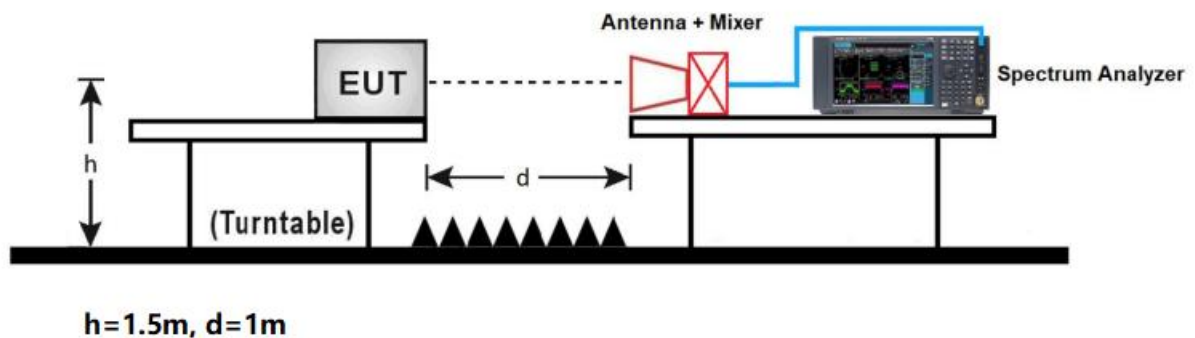
Operating Environment:

Temperature: 24.1 °C Humidity: 51.2 % RH Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                |
|-----------------------|-----------|--------------------------------------------|
| Final test            | 00        | TX mode_Keep the EUT in transmitting mode. |

### 7.5.3 Test Setup Diagram



Above 40GHz

#### 7.5.4 Measurement Procedure and Data

- a. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- b. The antenna 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.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the same height (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- e. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- f. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- g. Repeat above procedures until all frequencies measured was complete.

Remark 1:  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Please Refer to Appendix for Details

## 7.6 Frequency stability

Test Requirement

47 CFR Part 15, Subpart C 15. 255(f)

Test Method:

ANSI C63.10-2020+COR.1-2023 Section 9.5

Limit:

| Frequency (GHz) | Limit                                                       |
|-----------------|-------------------------------------------------------------|
| 57 - 64         | The signal must be contained within assigned frequency band |

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

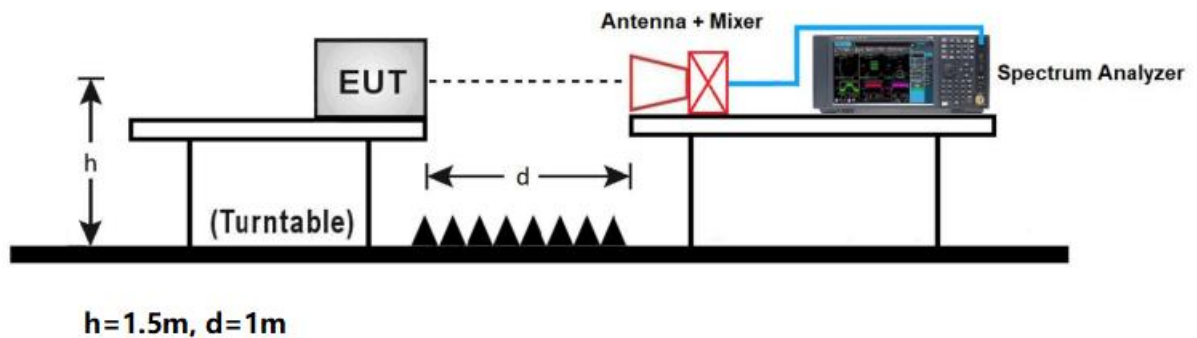
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                |
|--------------------------|--------------|--------------------------------------------|
| Final test               | 00           | TX mode_Keep the EUT in transmitting mode. |

### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

1. Temperature conditions:

- a) The RF output port of the EUT was connected to Frequency Meter;
- b) Set the working Frequency in the middle channel;
- c) record the 20°C and nominal voltage frequency value as reference point;
- d) vary the temperature from -20°C to 50°C with step 10°C
- e) when reach a temperature point, keep the temperature balance at least 1 hour to make the product working in this status;
- f) read the frequency at the relative temperature.

2. Voltage conditions:

- a) record the 20°C and nominal voltage frequency value as reference point;
- b) vary the voltage from -15% nominal voltage to +15% voltage;  
read the frequency at the relative voltage.

Please Refer to Appendix for Details

## **8 Test Setup Photo**

Refer to Appendix - Test Setup Photo for KSCR2609002526AT

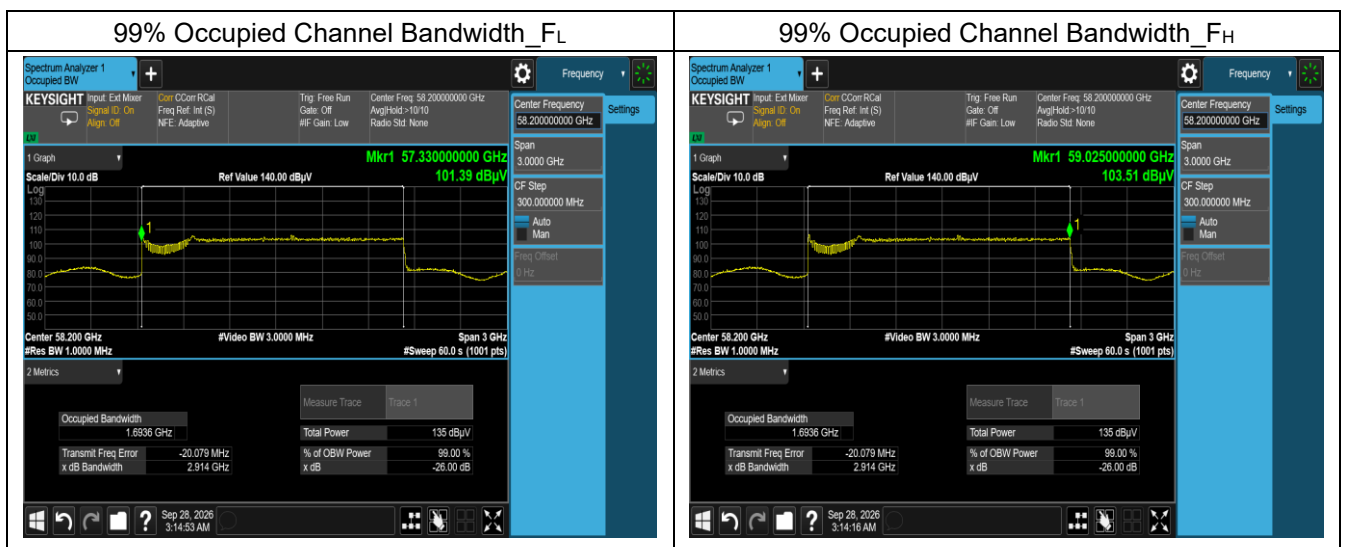
## **9 EUT Constructional Details (EUT Photos)**

Refer to Appendix - Photographs of EUT Constructional Details.

## 10 Appendix

### 10.1 Occupied bandwidth

| Frequency (GHz) | 99% OCW (GHz) | Lowest Frequency (GHz) | Highest Frequency (GHz) | Limit (GHz) | Result |
|-----------------|---------------|------------------------|-------------------------|-------------|--------|
| 58.2            | 1.6936        | 57.330                 | 59.025                  | 57-64       | Pass   |



Remark:  $F_L$ : Frequency Low Band Edge,  $F_H$ : Frequency High Band Edge

## 10.2 Transmitter power and Transmitter off-times

| Frequency (GHz) | Distance (m) | Polarity   | dBuV/m @ 1m | Desensitization factor (dB) | E.I.R.P. Power (dBm) | E.I.R.P. Limit (dBm) | Remark | Result |
|-----------------|--------------|------------|-------------|-----------------------------|----------------------|----------------------|--------|--------|
| 58.2            | 1            | Horizontal | 107.72      | 14.11                       | 17.06                | 20                   | peak   | Pass   |
|                 |              | Vertical   | 90.20       | 14.11                       | -0.46                | 20                   | peak   | Pass   |

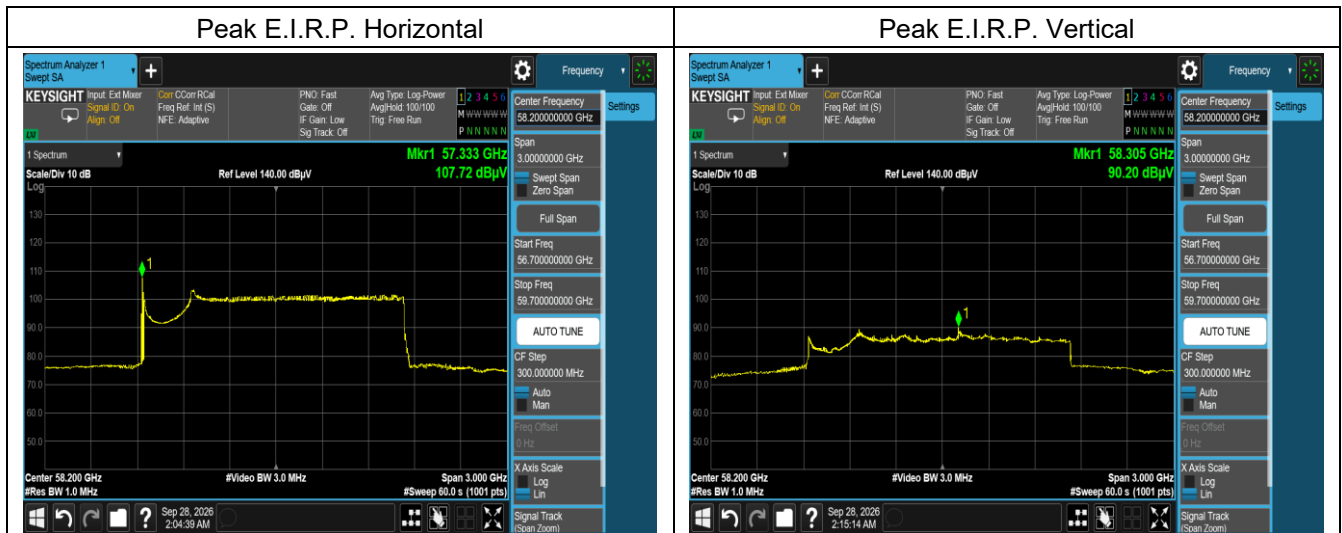
Remark 1: EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77, where E = field strength and d = distance at which field strength limit is specified in the rules

Remark 2: The FMCW modulation desensitization correct factor 14.11 was calculated with equation below, where the BW<sub>Chirp</sub>=1693.6MHz, T<sub>chirp</sub>=29uS, B=1MHz.

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{Chirp}}{T_{Chirp} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

where

$\alpha$  is the reduction in amplitude  
 $BW_{Chirp}$  is the FMCW Chirp Bandwidth  
 $T_{Chirp}$  is the FMCW Chirp Time  
 $B$  is the 3 dB IF Bandwidth = RBW

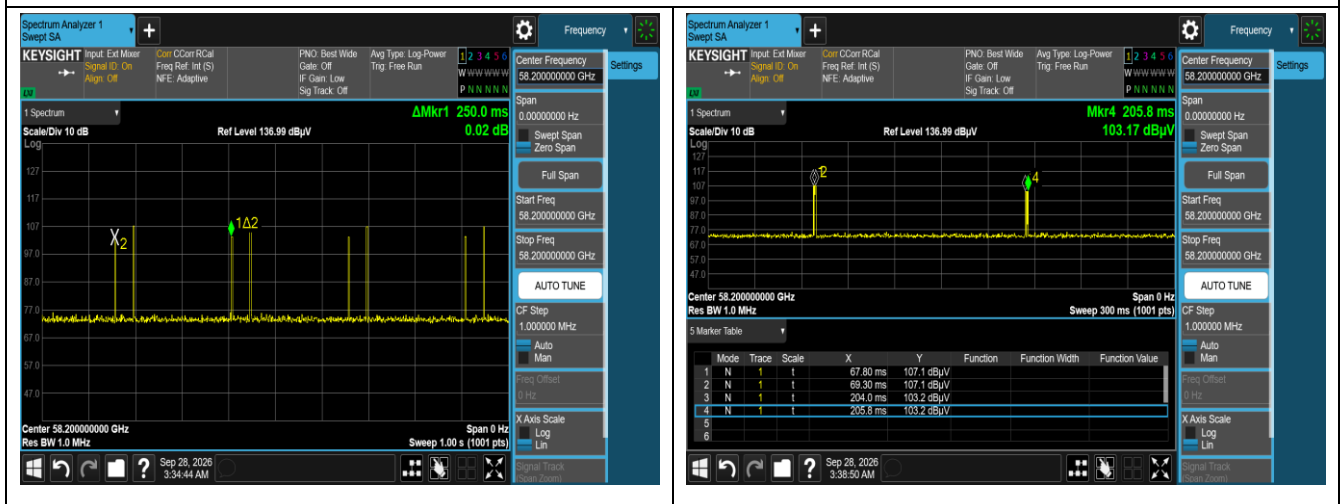


| Frequency (GHz) | Transmitter On-times (mS) | Transmitter Off-times (mS) | Interval Period (mS) | Limit (mS)  | Result |
|-----------------|---------------------------|----------------------------|----------------------|-------------|--------|
| 58.2            | 3.3                       | 29.7                       | 33                   | $\geq 16.5$ | Pass   |

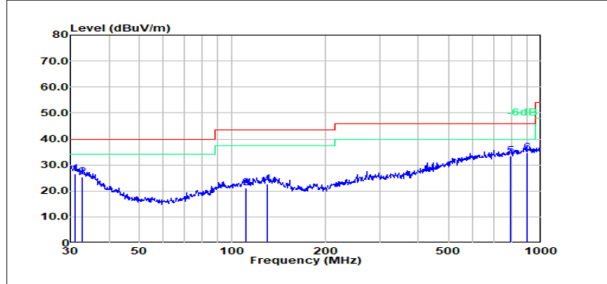
Note 1: Off-times = 33 mS – On-times

2: On-times = (69.30–67.80) + (205.80–204.0) mS = 3.3 mS

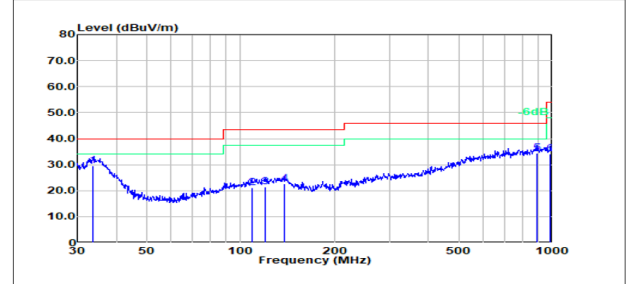
## Interval Period



## 10.3 Radiated spurious emissions below 40 GHz

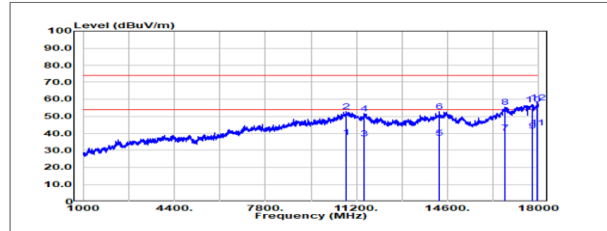


| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 31.18           | 2.34           | 24.18                | 26.52           | 40.00          | -13.48      | 100         | 76            | QP     |
| 2   | 32.86           | 2.22           | 23.19                | 25.41           | 40.00          | -14.59      | 100         | 0             | QP     |
| 3   | 110.57          | 1.67           | 19.58                | 21.25           | 43.50          | -22.25      | 200         | 0             | QP     |
| 4   | 130.38          | 2.20           | 20.36                | 22.56           | 43.50          | -20.94      | 200         | 96            | QP     |
| 5   | 793.40          | 3.32           | 30.30                | 33.62           | 46.00          | -12.38      | 100         | 167           | QP     |
| 6   | 900.15          | 2.92           | 31.66                | 34.58           | 46.00          | -11.42      | 100         | 158           | QP     |



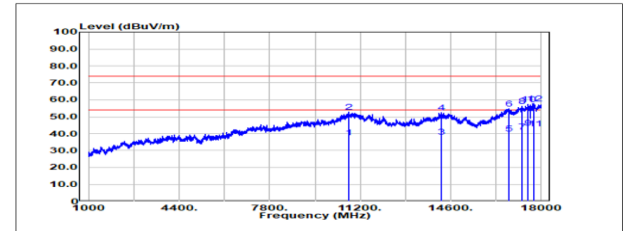
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|--------|
| 1   | 33.56           | 6.75           | 22.77                | 29.52           | 40.00          | -10.48      | 100         | 247           | QP     |
| 2   | 108.65          | 1.91           | 19.35                | 21.26           | 43.50          | -22.24      | 100         | 63            | QP     |
| 3   | 119.86          | 1.20           | 20.34                | 21.54           | 43.50          | -21.96      | 200         | 32            | QP     |
| 4   | 137.90          | 1.99           | 20.53                | 22.52           | 43.50          | -20.98      | 200         | 165           | QP     |
| 5   | 893.86          | 3.14           | 31.42                | 34.56           | 46.00          | -11.44      | 100         | 226           | QP     |
| 6   | 986.07          | 2.94           | 31.31                | 34.25           | 54.00          | -19.75      | 100         | 216           | QP     |

### 30MHz-1GHz-Horizontal



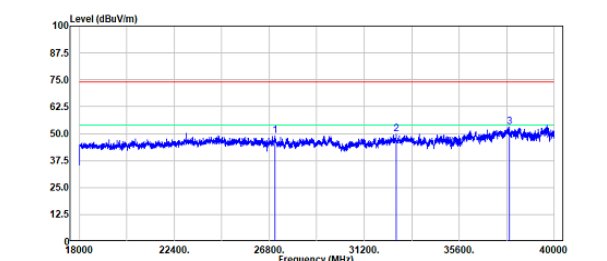
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 10809.00        | 34.84          | 2.72                 | 37.56           | 54.00          | -16.44      | 100         | 16            | Average |
| 2   | 10809.00        | 50.10          | 2.72                 | 52.82           | 74.00          | -21.18      | 100         | 16            | Peak    |
| 3   | 11484.75        | 35.90          | 0.97                 | 36.87           | 54.00          | -17.13      | 200         | 241           | Average |
| 4   | 11484.75        | 50.88          | 0.97                 | 51.85           | 74.00          | -22.15      | 200         | 241           | Peak    |
| 5   | 14281.25        | 35.29          | 1.94                 | 37.23           | 54.00          | -16.77      | 100         | 73            | Average |
| 6   | 14281.25        | 50.84          | 1.94                 | 52.78           | 74.00          | -21.22      | 100         | 73            | Peak    |
| 7   | 16750.50        | 35.29          | 4.97                 | 40.26           | 54.00          | -13.74      | 100         | 3             | Average |
| 8   | 16750.50        | 50.36          | 4.97                 | 55.33           | 74.00          | -18.67      | 100         | 3             | Peak    |
| 9   | 17757.75        | 32.38          | 8.97                 | 41.35           | 54.00          | -12.65      | 100         | 229           | Average |
| 10  | 17757.75        | 47.98          | 8.97                 | 56.95           | 74.00          | -17.05      | 100         | 229           | Peak    |
| 11  | 17940.50        | 32.05          | 11.40                | 43.45           | 54.00          | -10.55      | 100         | 360           | Average |
| 12  | 17940.50        | 46.72          | 11.40                | 58.12           | 74.00          | -15.88      | 100         | 360           | Peak    |

### 30MHz-1GHz-Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark  |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|---------------|---------|
| 1   | 10758.00        | 35.46          | 2.42                 | 37.88           | 54.00          | -16.12      | 100         | 183           | Average |
| 2   | 10758.00        | 50.40          | 2.42                 | 52.82           | 74.00          | -21.18      | 100         | 183           | Peak    |
| 3   | 14260.00        | 36.22          | 1.81                 | 38.03           | 54.00          | -15.97      | 200         | 119           | Average |
| 4   | 14260.00        | 50.58          | 1.81                 | 52.39           | 74.00          | -21.61      | 200         | 119           | Peak    |
| 5   | 16784.50        | 34.91          | 5.22                 | 40.13           | 54.00          | -13.87      | 100         | 159           | Average |
| 6   | 16784.50        | 49.56          | 5.22                 | 54.78           | 74.00          | -19.22      | 100         | 159           | Peak    |
| 7   | 17252.00        | 35.07          | 6.18                 | 41.25           | 54.00          | -12.75      | 100         | 353           | Average |
| 8   | 17252.00        | 49.95          | 6.18                 | 56.13           | 74.00          | -17.87      | 100         | 353           | Peak    |
| 9   | 17485.75        | 35.90          | 7.33                 | 43.23           | 54.00          | -10.77      | 200         | 350           | Average |
| 10  | 17485.75        | 50.18          | 7.33                 | 57.51           | 74.00          | -16.49      | 200         | 350           | Peak    |
| 11  | 17728.00        | 34.26          | 8.73                 | 42.99           | 54.00          | -11.01      | 100         | 342           | Average |
| 12  | 17728.00        | 49.14          | 8.73                 | 57.87           | 74.00          | -16.13      | 100         | 342           | Peak    |

### 1GHz-18GHz-Horizontal

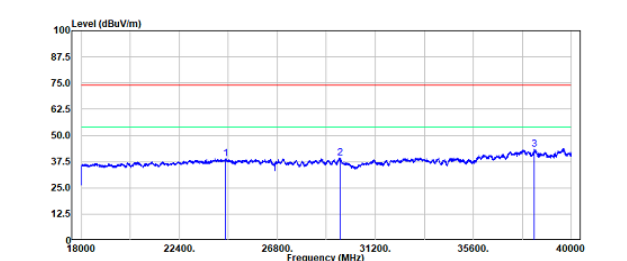


Antenna Polarity :Horizontal

| No. | Freq (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Remark |
|-----|------------|-------------------|-----------------------|-----------------|--------------------|-------------------------|----------------|-----------------|--------|
| 1   | 27057.01   | 52.82             | 39.88                 | 11.04           | 54.78              | 48.96                   | 74.00          | -25.04          | Peak   |
| 2   | 32676.94   | 53.48             | 40.78                 | 12.16           | 56.35              | 49.99                   | 74.00          | -24.01          | Peak   |
| 3   | 37935.99   | 50.56             | 42.88                 | 13.93           | 54.10              | 53.27                   | 74.00          | -20.73          | Peak   |

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

### 1GHz-18GHz-Vertical



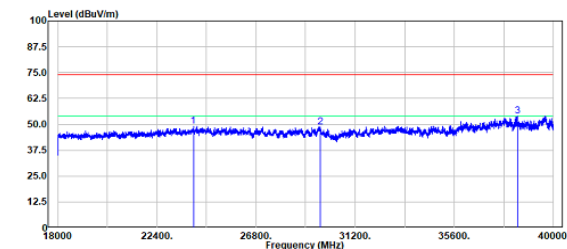
Antenna Polarity :Horizontal

| No. | Freq (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Remark  |
|-----|------------|-------------------|-----------------------|-----------------|--------------------|-------------------------|----------------|-----------------|---------|
| 1   | 24469.29   | 43.04             | 39.41                 | 10.67           | 54.29              | 38.83                   | 54.00          | -15.17          | Average |
| 2   | 29618.32   | 43.18             | 40.11                 | 11.49           | 55.58              | 39.20                   | 54.00          | -14.80          | Average |
| 3   | 38323.27   | 40.93             | 43.07                 | 14.21           | 54.91              | 43.30                   | 54.00          | -10.70          | Average |

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

### 18GHz-40GHz-Horizontal

### 18GHz-40GHz-Vertical

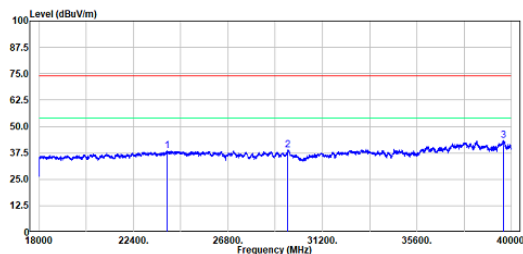


Antenna Polarity :Vertical

| No. | Freq<br>MHz | Read<br>level<br>dBuV | Antenna<br>Factor<br>dB/m | Cable<br>Loss<br>dB | Preamp<br>Factor<br>dB | Emission<br>Level<br>dBuV/m | Limit<br>Line<br>dBuV/m | Over<br>Limit<br>dB | Remark |
|-----|-------------|-----------------------|---------------------------|---------------------|------------------------|-----------------------------|-------------------------|---------------------|--------|
| 1   | 24011.60    | 53.25                 | 39.23                     | 10.57               | 54.10                  | 48.95                       | 74.00                   | -25.05              | Peak   |
| 2   | 29631.53    | 52.63                 | 40.11                     | 11.49               | 55.57                  | 48.66                       | 74.00                   | -25.34              | Peak   |
| 3   | 38420.09    | 51.70                 | 43.12                     | 14.36               | 55.18                  | 54.00                       | 74.00                   | -20.00              | Peak   |

Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

18GHz-40GHz-Vertical



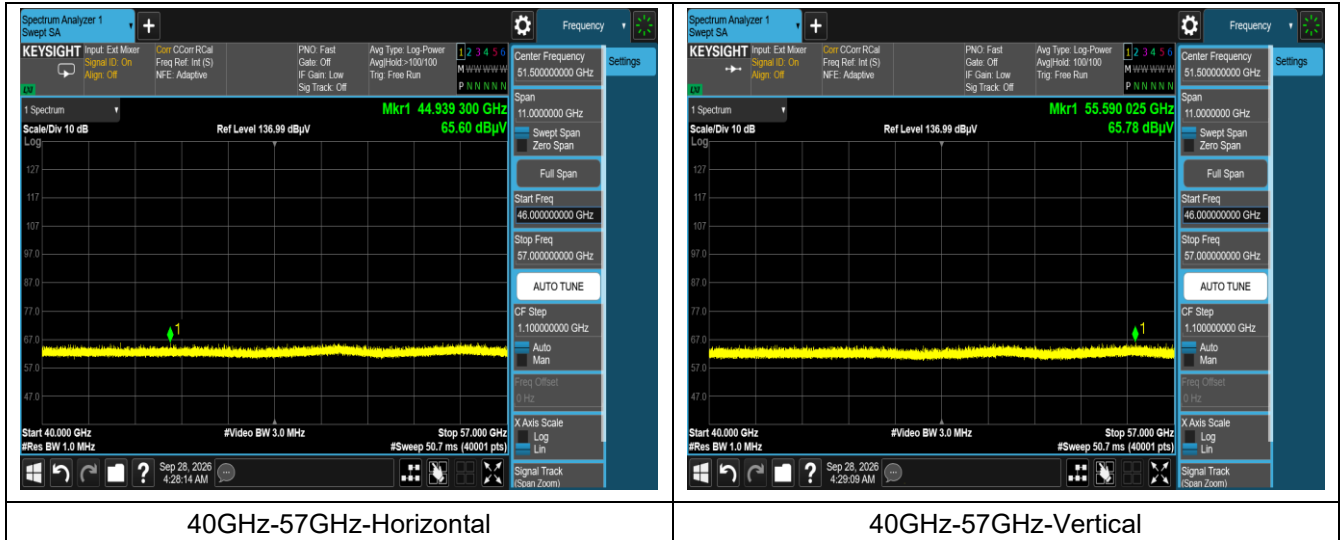
Antenna Polarity :Vertical

| No. | Freq<br>MHz | Read<br>level<br>dBuV | Antenna<br>Factor<br>dB/m | Cable<br>Loss<br>dB | Preamp<br>Factor<br>dB | Emission<br>Level<br>dBuV/m | Limit<br>Line<br>dBuV/m | Over<br>Limit<br>dB | Remark  |
|-----|-------------|-----------------------|---------------------------|---------------------|------------------------|-----------------------------|-------------------------|---------------------|---------|
| 1   | 23949.99    | 43.08                 | 39.21                     | 10.49               | 54.19                  | 38.59                       | 54.00                   | -15.41              | Average |
| 2   | 29578.71    | 42.95                 | 40.10                     | 11.47               | 55.62                  | 38.90                       | 54.00                   | -15.10              | Average |
| 3   | 39617.13    | 40.56                 | 43.67                     | 14.81               | 55.57                  | 43.47                       | 54.00                   | -10.53              | Average |

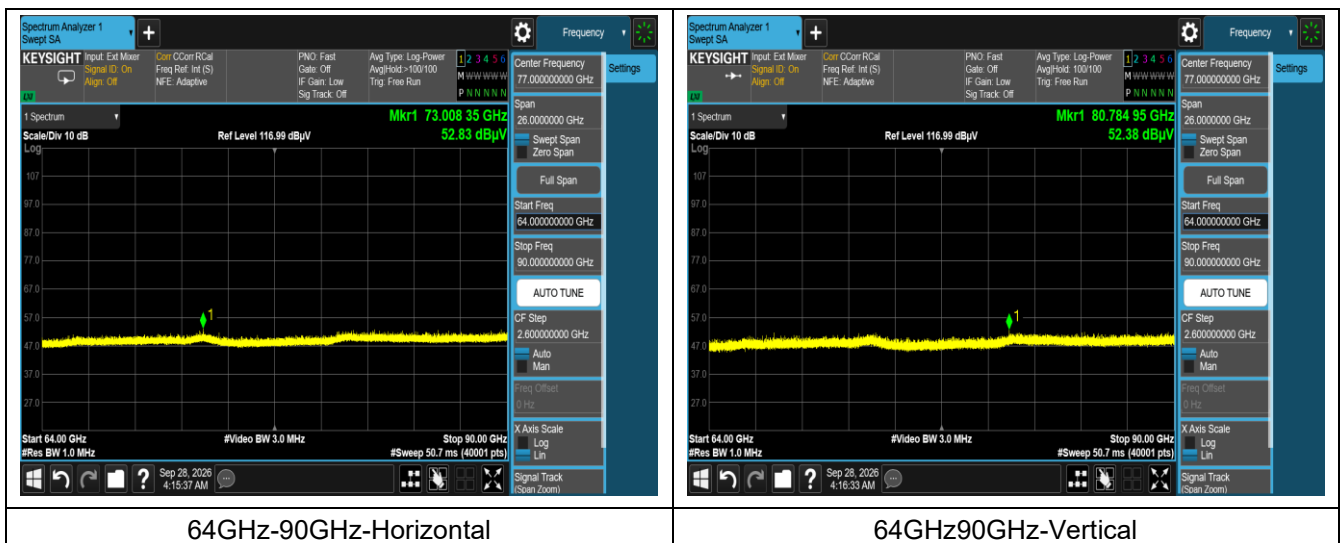
Notes: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

18GHz-40GHz-Vertical

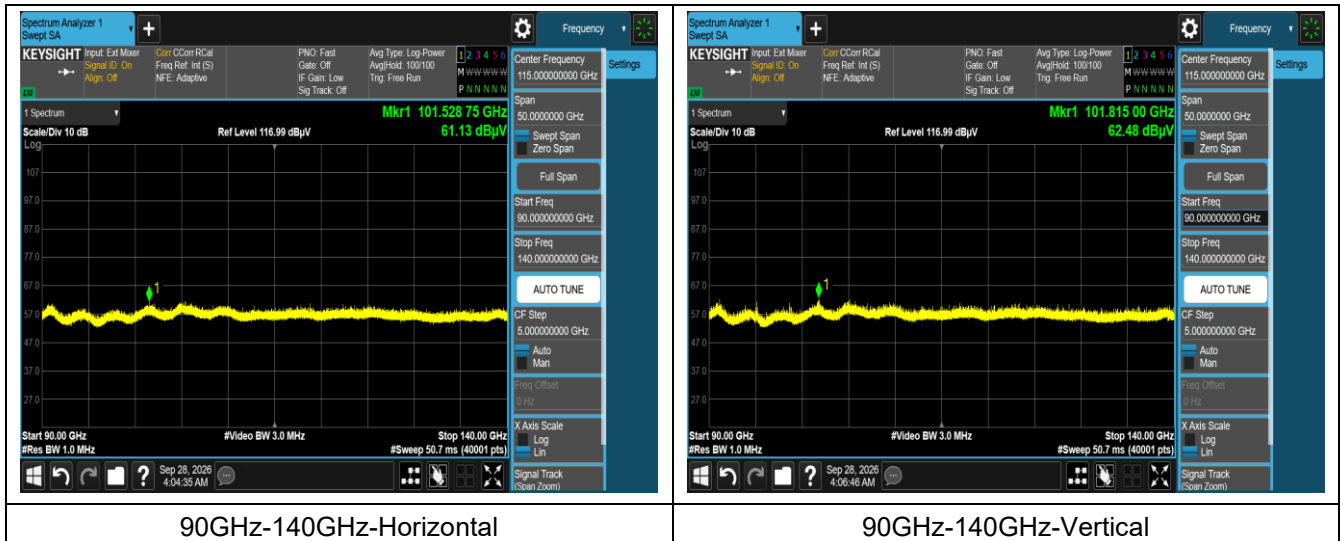
## 10.4 Radiated spurious emissions above 40 GHz



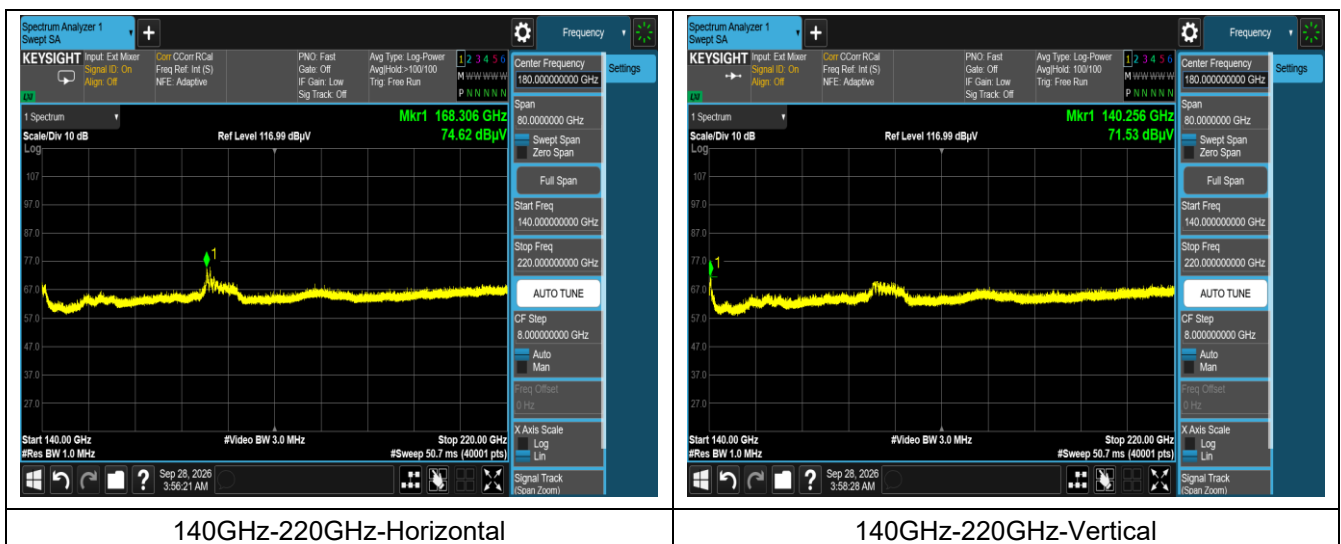
| Frequency (GHz) | Distance (M) | PK Value (dBuV/m) | PK Limit (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|-------------------|-------------------|-------------------|--------------|--------|
| 44.94           | 1            | 65.60             | 114.85            | 94.85             | Horizontal   | PASS   |
| 55.59           | 1            | 65.78             | 114.85            | 94.85             | Vertical     | PASS   |



| Frequency (GHz) | Distance (M) | PK Value (dBuV/m) | PK Limit (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|-------------------|-------------------|-------------------|--------------|--------|
| 73.01           | 1            | 52.83             | 114.85            | 94.85             | Horizontal   | PASS   |
| 80.78           | 1            | 52.38             | 114.85            | 94.85             | Vertical     | PASS   |



| Frequency (GHz) | Distance (M) | PK Value (dBuV/m) | PK Limit (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|-------------------|-------------------|-------------------|--------------|--------|
| 101.53          | 1            | 61.13             | 114.85            | 94.85             | Horizontal   | PASS   |
| 101.82          | 1            | 62.48             | 114.85            | 94.85             | Vertical     | PASS   |



| Frequency (GHz) | Distance (M) | PK Value (dBuV/m) | PK Limit (dBuV/m) | AV Limit (dBuV/m) | Polarization | Result |
|-----------------|--------------|-------------------|-------------------|-------------------|--------------|--------|
| 168.31          | 1            | 74.62             | 114.85            | 94.85             | Horizontal   | Pass   |
| 140.26          | 1            | 71.53             | 114.85            | 94.85             | Vertical     | Pass   |

## 10.5 Frequency stability

Frequency Stability vs temperature:

Test for 57GHz to 64GHz (Channel=58.2GHz)

| Temperature (°C) | Voltage (V DC) | F <sub>L</sub> (GHz) | Limit (GHz) | F <sub>H</sub> (GHz) | Limit (GHz) | Result |
|------------------|----------------|----------------------|-------------|----------------------|-------------|--------|
| 50               | 5              | 57.3300              | 57          | 59.0250              | 64          | Pass   |
| 40               | 5              | 57.3304              | 57          | 59.0253              | 64          | Pass   |
| 30               | 5              | 57.3311              | 57          | 59.0248              | 64          | Pass   |
| 20               | 5              | 57.3315              | 57          | 59.0244              | 64          | Pass   |
| 10               | 5              | 57.3308              | 57          | 59.0251              | 64          | Pass   |
| 0                | 5              | 57.3302              | 57          | 59.0250              | 64          | Pass   |
| -10              | 5              | 57.3315              | 57          | 59.0247              | 64          | Pass   |
| -20              | 5              | 57.3304              | 57          | 59.0253              | 64          | Pass   |
| 20               | 4.25           | 57.3304              | 57          | 59.0252              | 64          | Pass   |
| 20               | 5.75           | 57.3309              | 57          | 59.0255              | 64          | Pass   |

Remark: F<sub>L</sub>: Frequency Low Band Edge, F<sub>H</sub>: Frequency High Band Edge

- End of the Report -