

ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT

**Applicant:** Samsara, Inc.  
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**Manufacturer:** Jabil Circuit de Mexico, S. de R.L. de C.V.  
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a Nogales Km 13.5, Zapopan, Jal, 45010. MEXICO

**Product Name:** AT11

**Brand Name:** Samsara

**Model No.:** 030-00007

**Report Number:** TERF2409002578E2

**FCC ID** 2AIHD-AT11

**Date of EUT Received:** September 3, 2024

**Date of Test:** September 4, 2024 ~ September 5, 2024

**Issue Date:** September 30, 2024

Approved By

Arno Hsieh

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description                                                 | Issue Date         | Revised By | Remark |
|------------------|----------|-------------------------------------------------------------|--------------------|------------|--------|
| TERF2409002578E2 | 00       | C2PC for Changing L6, C35 & C36 Inductance and Antenna gain | September 30, 2024 | Yuri Tsai  |        |
|                  |          |                                                             |                    |            |        |
|                  |          |                                                             |                    |            |        |
|                  |          |                                                             |                    |            |        |
|                  |          |                                                             |                    |            |        |
|                  |          |                                                             |                    |            |        |
|                  |          |                                                             |                    |            |        |

### Note:

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、This is an addendum test report reference to the test report *TERF2405001260E2*.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                 |              |
|---------------------------------|--------------|
| Product Name:                   | AT11         |
| Brand Name:                     | Samsara      |
| Model No.:                      | 030-00007    |
| Hardware Version:               | 01-01:02     |
| Firmware Version:               | v105.12.1398 |
| EUT Series No.:                 | GAVR-X6R-YMW |
| Power Supply:                   | 3Vdc         |
| Test Software<br>(Name/Version) | PuTTY 0.76   |

### 1.2 RF Specification

|                   |                |
|-------------------|----------------|
| Radio Technology: | BLE            |
| Frequency Range:  | 2402 – 2480MHz |
| Channel number:   | 40 channels    |
| Modulation type:  | GFSK           |

### 1.3 Antenna Designation

| Antenna Type      | Freq.<br>(MHz) | Peak Antenna<br>Gain (dBi) |
|-------------------|----------------|----------------------------|
| Planar inverted-F | 2.4GHz         | 0.9                        |

**Note:**

1. Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

## 1.5 Test Facility

| Laboratory                                            | Test Site Address                                                                         | Test Site Name | FCC Designation number | IC CAB identifier |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027                 | TW3702            |
|                                                       |                                                                                           | SAC 2          |                        |                   |
|                                                       |                                                                                           | SAC 3          |                        |                   |
|                                                       |                                                                                           | Conduction 1   |                        |                   |
|                                                       |                                                                                           | Conducted 1    |                        |                   |
|                                                       |                                                                                           | Conducted 2    |                        |                   |
|                                                       |                                                                                           | Conducted 3    |                        |                   |
|                                                       |                                                                                           | Conducted 4    |                        |                   |
|                                                       |                                                                                           | Conducted 5    |                        |                   |
|                                                       |                                                                                           | Conducted 6    |                        |                   |
|                                                       | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028                 |                   |
|                                                       |                                                                                           | SAC C          |                        |                   |
|                                                       |                                                                                           | SAC D          |                        |                   |
|                                                       |                                                                                           | SAC G          |                        |                   |
|                                                       |                                                                                           | Conducted A    |                        |                   |
|                                                       |                                                                                           | Conducted B    |                        |                   |
|                                                       |                                                                                           | Conducted C    |                        |                   |
|                                                       |                                                                                           | Conducted D    |                        |                   |
|                                                       |                                                                                           | Conducted E    |                        |                   |
|                                                       |                                                                                           | Conducted F    |                        |                   |
| Conducted G                                           |                                                                                           |                |                        |                   |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

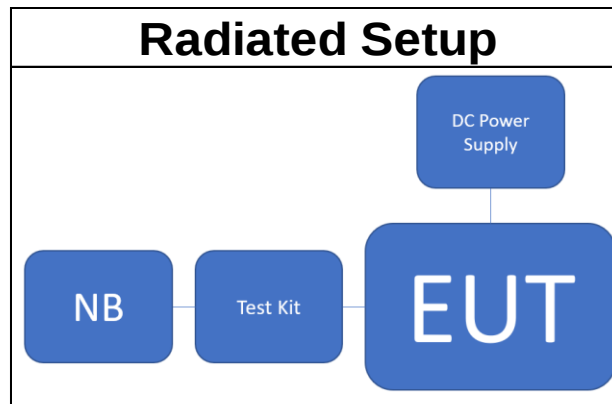
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| Radiated Emission Test Site: SAC C |                     |              |               |           |          |
|------------------------------------|---------------------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR                 | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Kit                           | mercury electronics | MCS-73LV     | N/A           | N/A       | N/A      |
| Notebook                           | Lenovo              | T470         | P0001293      | N/A       | N/A      |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules             | Description Of Test                         | Result    |
|-----------------------|---------------------------------------------|-----------|
| §15.247(d)<br>§15.209 | Radiated Band Edge<br>and Spurious Emission | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

| 2400~2483.5 MHz |                |    |                |    |                |    |                |
|-----------------|----------------|----|----------------|----|----------------|----|----------------|
| CH              | Freq.<br>(MHz) | CH | Freq.<br>(MHz) | CH | Freq.<br>(MHz) | CH | Freq.<br>(MHz) |
| 0               | 2402           | 10 | 2422           | 20 | 2442           | 30 | 2462           |
| 1               | 2404           | 11 | 2424           | 21 | 2444           | 31 | 2464           |
| 2               | 2406           | 12 | 2426           | 22 | 2446           | 32 | 2466           |
| 3               | 2408           | 13 | 2428           | 23 | 2448           | 33 | 2468           |
| 4               | 2410           | 14 | 2430           | 24 | 2450           | 34 | 2470           |
| 5               | 2412           | 15 | 2432           | 25 | 2452           | 35 | 2472           |
| 6               | 2414           | 16 | 2434           | 26 | 2454           | 36 | 2474           |
| 7               | 2416           | 17 | 2436           | 27 | 2456           | 37 | 2476           |
| 8               | 2418           | 18 | 2438           | 28 | 2458           | 38 | 2478           |
| 9               | 2420           | 19 | 2440           | 29 | 2460           | 39 | 2480           |

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                   |                |            |                  |
|-----------------------------------------------|-------------------|----------------|------------|------------------|
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE                                  | 0 to 39           | 20             | GFSK       | 1                |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                   |                |            |                  |
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE                                  | 0 to 39           | 0,20,39        | GFSK       | 1                |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                       | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.54 dB |
| Output Power measurement         | +/- 0.97 dB |
| Emission Bandwidth               | +/- 1.38 Hz |
| Conducted emission measurement   | +/- 0.77 dB |
| Peak Power Density               | +/- 0.61 dB |
| Temperature                      | +/- 0.6 °C  |
| Humidity                         | +/- 3 %     |
| DC / AC Power Source             | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.15 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.02 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- | 2 dB    | 33GHz-50GHz     |
|                                                    | +/- | 1.59 dB | 50GHz-60GHz     |
|                                                    | +/- | 1.7 dB  | 60GHz-90GHz     |
|                                                    | +/- | 1.64 dB | 90GHz-140GHz    |
|                                                    | +/- | 3.83 dB | 140GHz-220GHz   |

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Radiated Measurement

| Radiated Emission Test Site: SAC C |                 |                       |                        |            |            |
|------------------------------------|-----------------|-----------------------|------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER          | SERIAL NUMBER          | LAST CAL.  | CAL DUE.   |
| 3m Site NSA                        | SGS             | 966 chamber C         | N/A                    | 03/02/2024 | 03/01/2025 |
| Active Loop Antenna                | COM-POWER       | AL-130R               | 10160105               | 12/04/2023 | 12/03/2024 |
| Attenuator                         | Woken           | WATT-218FS-10         | RF17                   | 11/15/2023 | 11/14/2024 |
| Band Rejection Filter              | K&L             | 3TNF-800/1000-0.2-N/N | RF184                  | 11/15/2023 | 11/14/2024 |
| Band Rejection Filter              | Micro Tronics   | BRM50701-01           | RF201                  | 11/15/2023 | 11/14/2024 |
| Broadband Antenna                  | SCHWARZBECK     | VULB 9168             | 9168-300               | 11/02/2023 | 11/01/2024 |
| Coaxial Cable                      | Huber+Suhner    | EMC106-SM-SM-9100     | 150704                 | 11/15/2023 | 11/14/2024 |
| Coaxial Cable                      | Huber+Suhner    | RG 214/U              | W22.03                 | 11/15/2023 | 11/14/2024 |
| Coaxial Cable                      | Huber+Suhner    | SUCOFLEX 104          | MY17388/4              | 11/15/2023 | 11/14/2024 |
| DC Power Supply                    | HOLA            | DP-3003               | D7070035               | 06/14/2024 | 06/13/2025 |
| EMI Test Receiver                  | R&S             | ESU 40                | 100363                 | 04/30/2024 | 04/29/2025 |
| High Pass Filter                   | Titan Microwave | T04H86002600060S01    | 210619-2-8             | 11/15/2023 | 11/14/2024 |
| Horn Antenna                       | Schwarzbeck     | BBHA9120D             | 1187                   | 01/24/2024 | 01/23/2025 |
| Horn Antenna                       | Schwarzbeck     | BBHA9170              | 185                    | 08/15/2024 | 08/14/2025 |
| Lowpass Filter                     | Woken           | EWT-56-0019           | RF173                  | 11/15/2023 | 11/14/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC118A45SE           | 980789                 | 11/15/2023 | 11/14/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC18405SEE           | 980881                 | 11/15/2023 | 11/14/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC330                | 980096                 | 11/15/2023 | 11/14/2024 |
| Spectrum Analyzer                  | KEYSIGHT        | N9010B                | MY63440390             | 02/16/2024 | 02/15/2025 |
| Test Software                      | audix           | e3                    | E3 20923 SGS Ver.9 (C) | N.C.R      | N.C.R      |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

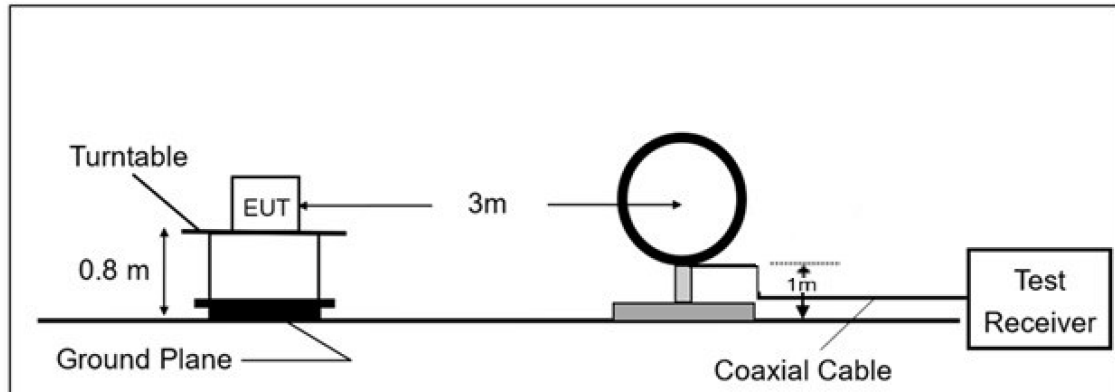
**Note:** The lower limit shall apply at the transition frequencies.

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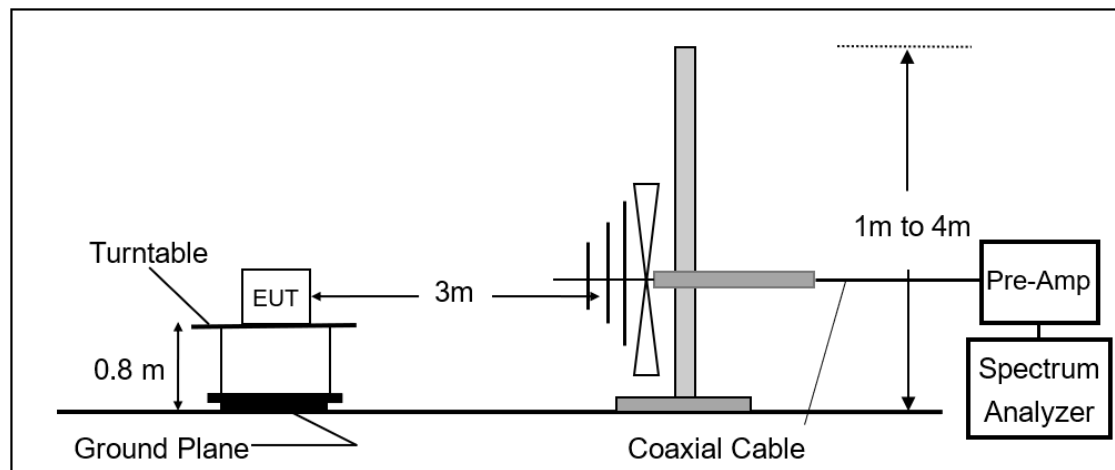
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## 7.1 Test Setup

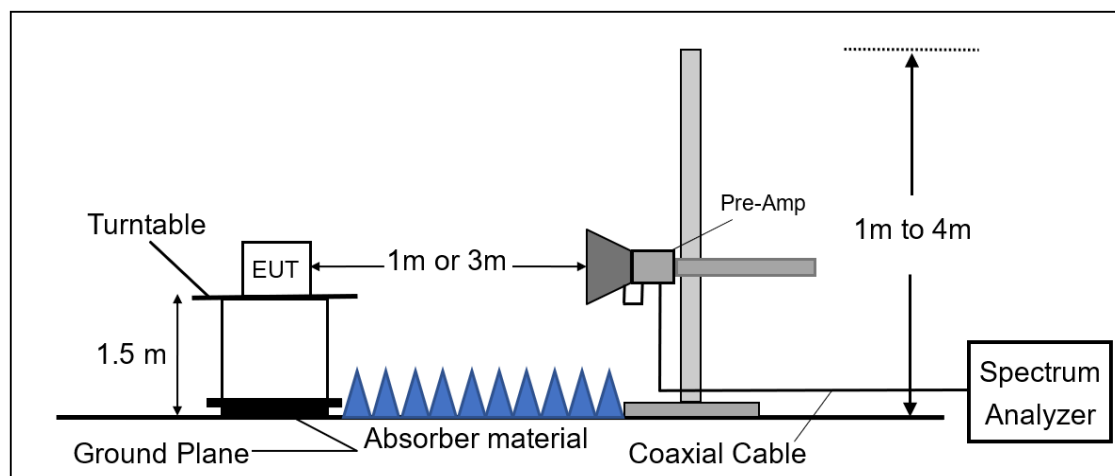
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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## 7.2 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

## 7.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength  
*RA* = Reading Amplitude  
*AF* = Antenna Factor

*CL* = Cable Attenuation Factor (Cable Loss)  
*AG* = Amplifier Gain

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The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$

$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre\_Amplifier\ Gain(dB)$

#### 7.4 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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## 7.4.1 Radiated Band Edge Measurement Result

Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2402 MHz

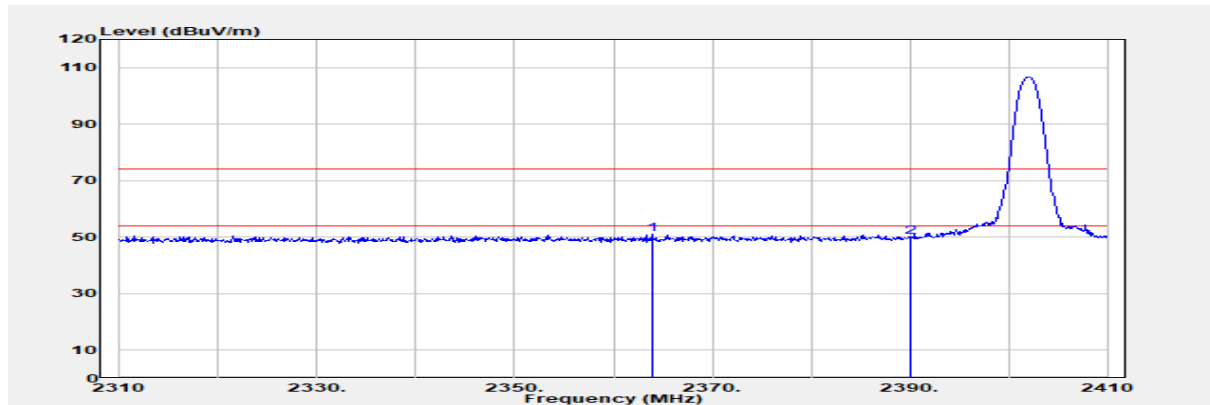
Temp./Humi. :22.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2363.900     | Peak                         | 55.25                                   | -4.03        | 51.21                        | 74.00                        | -22.79       |
| 2390.000     | Peak                         | 54.46                                   | -4.25        | 50.21                        | 74.00                        | -23.79       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dB $\mu$ V/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2363.900     | Average                | 51.21                               | -47.96                       | 3.25                         | 54.00                           | -50.75         |
| 2390.000     | Average                | 50.21                               | -47.96                       | 2.25                         | 54.00                           | -51.75         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2402 MHz

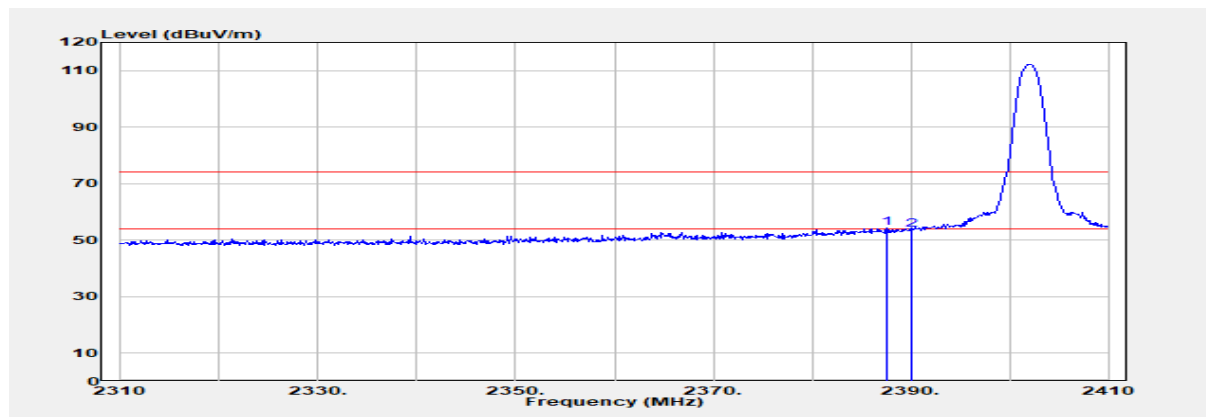
Temp./Humi. :22.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2387.600     | Peak                         | 58.55                                   | -4.23        | 54.32                        | 74.00                        | -19.68       |
| 2390.000     | Peak                         | 57.91                                   | -4.25        | 53.66                        | 74.00                        | -20.34       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dB $\mu$ V/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dB $\mu$ V/m) | Average<br>Limit@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------------|------------------------------|------------------------------------|---------------------------------------|----------------|
| 2387.600     | Average                | 54.32                               | -47.96                       | 6.36                               | 54.00                                 | -47.64         |
| 2390.000     | Average                | 53.66                               | -47.96                       | 5.70                               | 54.00                                 | -48.30         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2480 MHz

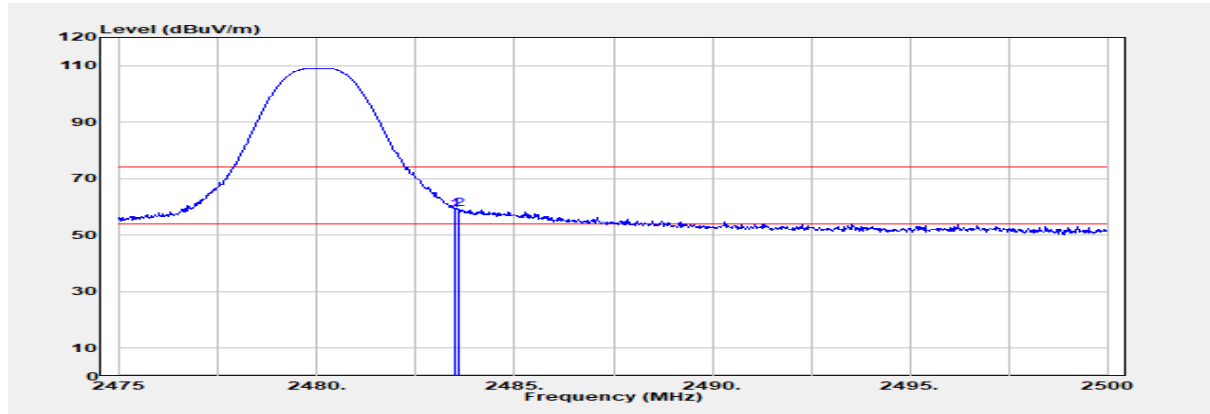
Temp./Humi. :22.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500     | Peak                         | 62.80                             | -3.82                        | 58.98                        | 74.00                           | -15.02         |
| 2483.600     | Peak                         | 62.87                             | -3.82                        | 59.05                        | 74.00                           | -14.95         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 2483.500     | Average                      | 58.98                             | -47.96                       | 11.02                        | 54.00                           | -42.98         |
| 2483.600     | Average                      | 59.05                             | -47.96                       | 11.09                        | 54.00                           | -42.91         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2480 MHz

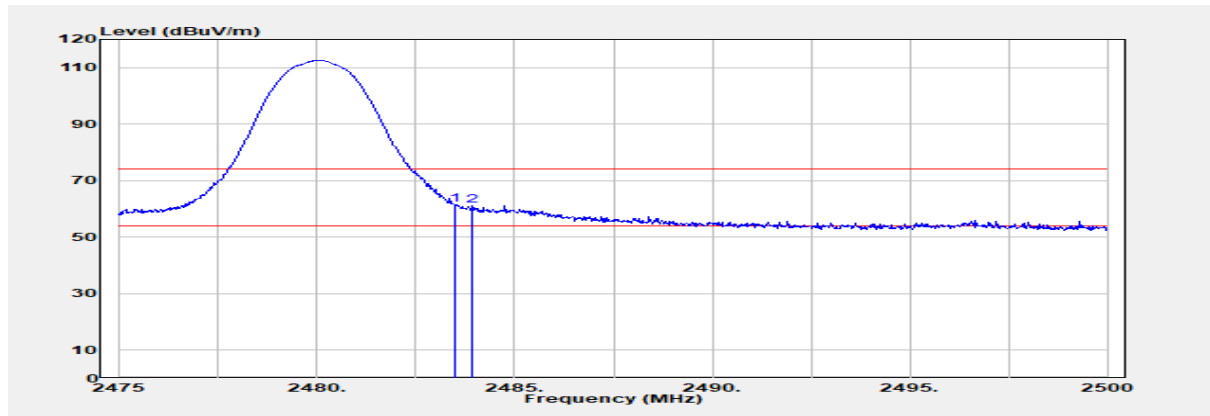
Temp./Humi. :22.2°C/54%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2483.500     | Peak                         | 65.34                                   | -3.82        | 61.52                        | 74.00                        | -12.48       |
| 2483.925     | Peak                         | 65.09                                   | -3.82        | 61.27                        | 74.00                        | -12.73       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dB $\mu$ V/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500     | Average                | 61.52                               | -47.96                       | 13.56                        | 54.00                           | -40.44         |
| 2483.925     | Average                | 61.27                               | -47.96                       | 13.31                        | 54.00                           | -40.69         |

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## 7.4.2 Radiated Spurious Emission

Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2442 MHz

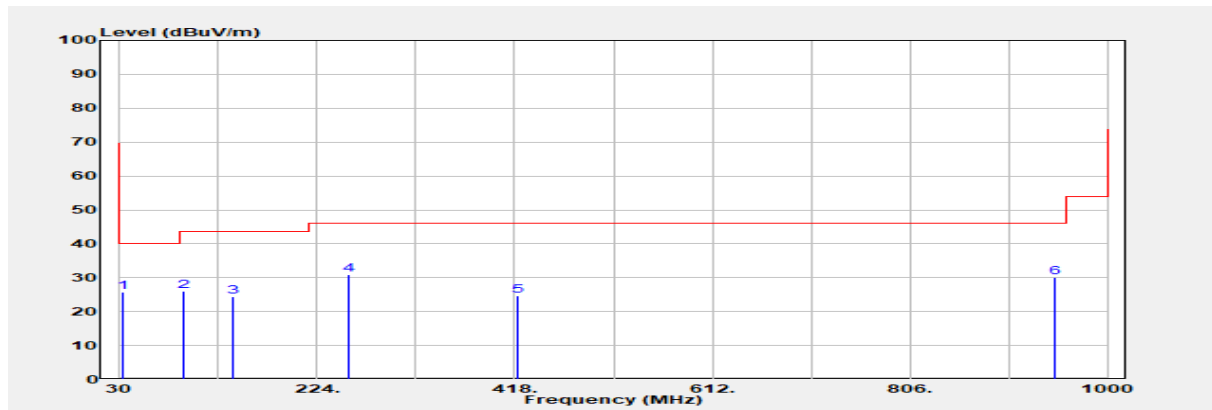
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 33.880       | QP                           | 43.20                                   | -17.37       | 25.83                        | 40.00                        | -14.17       |
| 92.080       | Peak                         | 47.56                                   | -21.48       | 26.08                        | 43.50                        | -17.42       |
| 140.580      | Peak                         | 41.05                                   | -16.57       | 24.48                        | 43.50                        | -19.02       |
| 255.040      | Peak                         | 47.83                                   | -16.82       | 31.01                        | 46.00                        | -14.99       |
| 420.910      | Peak                         | 35.68                                   | -11.12       | 24.56                        | 46.00                        | -21.44       |
| 948.590      | Peak                         | 31.31                                   | -1.19        | 30.13                        | 46.00                        | -15.87       |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2442 MHz

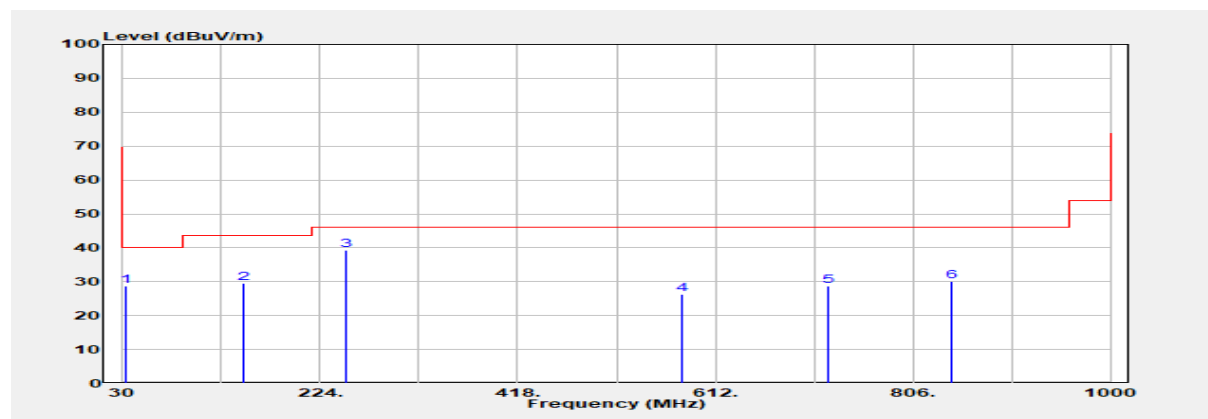
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 33.880       | Peak                         | 46.11                             | -17.37       | 28.74                  | 40.00                  | -11.26       |
| 148.340      | Peak                         | 45.41                             | -15.74       | 29.66                  | 43.50                  | -13.84       |
| 250.190      | Peak                         | 56.22                             | -16.86       | 39.36                  | 46.00                  | -6.64        |
| 579.020      | Peak                         | 33.78                             | -7.55        | 26.23                  | 46.00                  | -19.77       |
| 722.580      | Peak                         | 33.57                             | -4.78        | 28.79                  | 46.00                  | -17.21       |
| 844.800      | Peak                         | 32.45                             | -2.50        | 29.96                  | 46.00                  | -16.04       |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2402 MHz

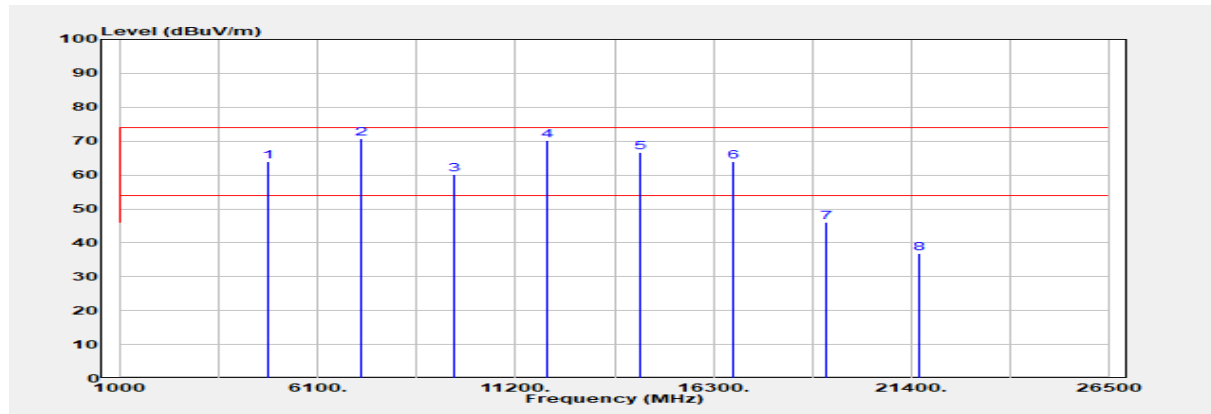
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 63.19                             | 0.66         | 63.85                  | 74.00                  | -10.15       |
| 7206.000     | Peak                         | 63.74                             | 6.89         | 70.64                  | 74.00                  | -3.36        |
| 9608.000     | Peak                         | 52.13                             | 8.06         | 60.19                  | 74.00                  | -13.81       |
| 12010.000    | Peak                         | 62.68                             | 7.59         | 70.27                  | 74.00                  | -3.73        |
| 14412.000    | Peak                         | 57.19                             | 9.57         | 66.76                  | 74.00                  | -7.24        |
| 16814.000    | Peak                         | 55.45                             | 8.51         | 63.96                  | 74.00                  | -10.04       |
| 19216.000    | Peak                         | 48.46                             | -2.48        | 45.98                  | 74.00                  | -28.02       |
| 21618.000    | Peak                         | 37.75                             | -0.86        | 36.88                  | 74.00                  | -37.12       |

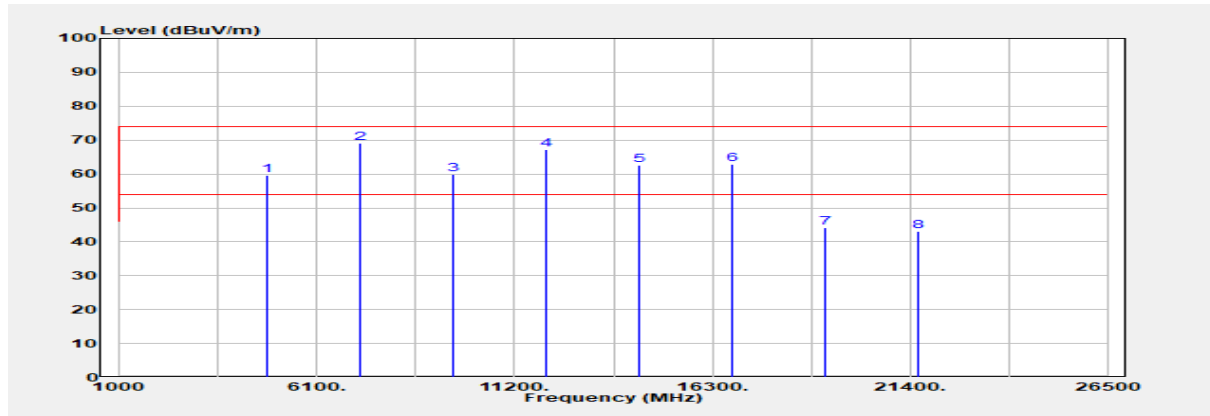
| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Average                | 63.85                         | -47.96                       | 15.89                        | 54.00                           | -38.11         |
| 7206.000     | Average                | 70.64                         | -47.96                       | 22.68                        | 54.00                           | -31.32         |
| 9608.000     | Average                | 60.19                         | -47.96                       | 12.23                        | 54.00                           | -41.77         |
| 12010.000    | Average                | 70.27                         | -47.96                       | 22.31                        | 54.00                           | -31.69         |
| 14412.000    | Average                | 66.76                         | -47.96                       | 18.80                        | 54.00                           | -35.20         |
| 16814.000    | Average                | 63.96                         | -47.96                       | 16.00                        | 54.00                           | -38.00         |
| 19216.000    | Average                | 45.98                         | -47.96                       | -1.98                        | 54.00                           | -55.98         |
| 21618.000    | Average                | 36.88                         | -47.96                       | -11.08                       | 54.00                           | -65.08         |

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Report Number :TERF2409002578E2  
 Operation Mode :BLE 1M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2024-09-05  
 Temp./Humi. :22.2°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4804.000     | Peak                         | 58.93                             | 0.66         | 59.59                  | 74.00                  | -14.41       |
| 7206.000     | Peak                         | 62.11                             | 6.89         | 69.00                  | 74.00                  | -5.00        |
| 9608.000     | Peak                         | 51.71                             | 8.06         | 59.77                  | 74.00                  | -14.23       |
| 12010.000    | Peak                         | 59.57                             | 7.59         | 67.16                  | 74.00                  | -6.84        |
| 14412.000    | Peak                         | 52.95                             | 9.57         | 62.52                  | 74.00                  | -11.48       |
| 16814.000    | Peak                         | 54.28                             | 8.51         | 62.79                  | 74.00                  | -11.21       |
| 19216.000    | Peak                         | 46.67                             | -2.48        | 44.19                  | 74.00                  | -29.81       |
| 21618.000    | Peak                         | 44.09                             | -0.86        | 43.22                  | 74.00                  | -30.78       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Average                | 59.59                         | -47.96                       | 11.63                        | 54.00                           | -42.37         |
| 7206.000     | Average                | 69.00                         | -47.96                       | 21.04                        | 54.00                           | -32.96         |
| 9608.000     | Average                | 59.77                         | -47.96                       | 11.81                        | 54.00                           | -42.19         |
| 12010.000    | Average                | 67.16                         | -47.96                       | 19.20                        | 54.00                           | -34.80         |
| 14412.000    | Average                | 62.52                         | -47.96                       | 14.56                        | 54.00                           | -39.44         |
| 16814.000    | Average                | 62.79                         | -47.96                       | 14.83                        | 54.00                           | -39.17         |
| 19216.000    | Average                | 44.19                         | -47.96                       | -3.77                        | 54.00                           | -57.77         |
| 21618.000    | Average                | 43.22                         | -47.96                       | -4.74                        | 54.00                           | -58.74         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2442 MHz

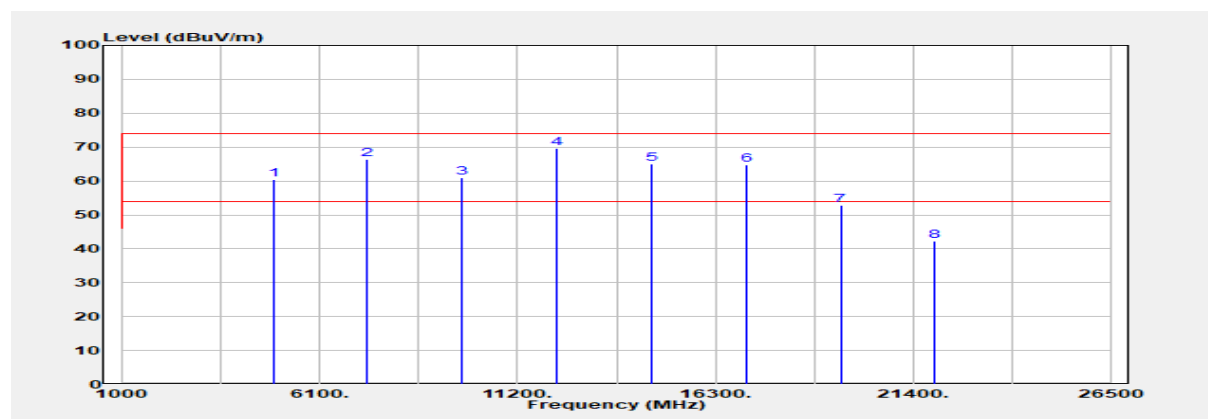
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 60.11                             | 0.41         | 60.52                  | 74.00                  | -13.48       |
| 7326.000     | Peak                         | 59.90                             | 6.38         | 66.27                  | 74.00                  | -7.73        |
| 9768.000     | Peak                         | 52.39                             | 8.46         | 60.85                  | 74.00                  | -13.15       |
| 12210.000    | Peak                         | 62.28                             | 7.47         | 69.76                  | 74.00                  | -4.24        |
| 14652.000    | Peak                         | 55.79                             | 9.32         | 65.11                  | 74.00                  | -8.89        |
| 17094.000    | Peak                         | 56.62                             | 8.21         | 64.84                  | 74.00                  | -9.16        |
| 19536.000    | Peak                         | 54.70                             | -1.97        | 52.73                  | 74.00                  | -21.27       |
| 21978.000    | Peak                         | 43.54                             | -1.23        | 42.31                  | 74.00                  | -31.69       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4884.000     | Average                | 60.52                         | -47.96                       | 12.56                        | 54.00                           | -41.44         |
| 7326.000     | Average                | 66.27                         | -47.96                       | 18.31                        | 54.00                           | -35.69         |
| 9768.000     | Average                | 60.85                         | -47.96                       | 12.89                        | 54.00                           | -41.11         |
| 12210.000    | Average                | 69.76                         | -47.96                       | 21.80                        | 54.00                           | -32.20         |
| 14652.000    | Average                | 65.11                         | -47.96                       | 17.15                        | 54.00                           | -36.85         |
| 17094.000    | Average                | 64.84                         | -47.96                       | 16.88                        | 54.00                           | -37.12         |
| 19536.000    | Average                | 52.73                         | -47.96                       | 4.77                         | 54.00                           | -49.23         |
| 21978.000    | Average                | 42.31                         | -47.96                       | -5.65                        | 54.00                           | -59.65         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2442 MHz

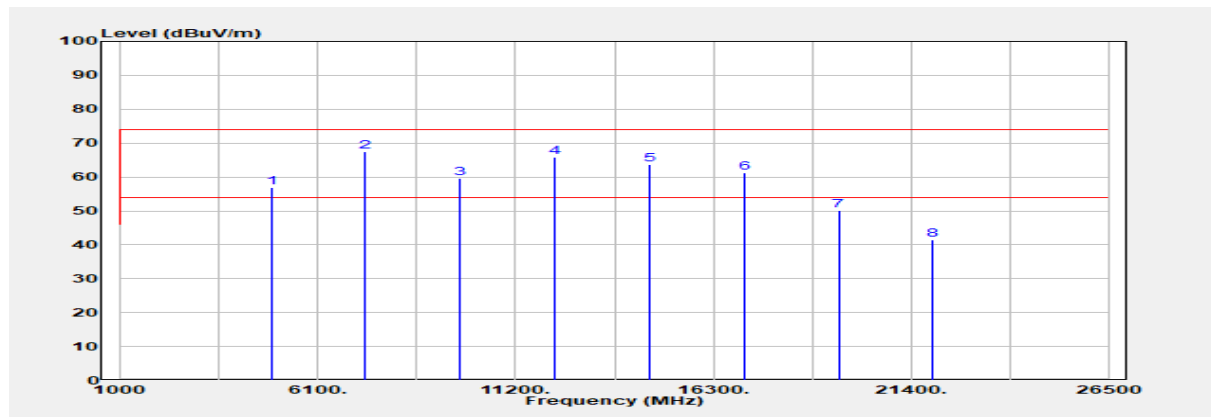
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4884.000     | Peak                         | 56.38                             | 0.41         | 56.79                  | 74.00                  | -17.21       |
| 7326.000     | Peak                         | 61.06                             | 6.38         | 67.44                  | 74.00                  | -6.56        |
| 9768.000     | Peak                         | 51.15                             | 8.46         | 59.61                  | 74.00                  | -14.39       |
| 12210.000    | Peak                         | 58.46                             | 7.47         | 65.93                  | 74.00                  | -8.07        |
| 14652.000    | Peak                         | 54.30                             | 9.32         | 63.62                  | 74.00                  | -10.38       |
| 17094.000    | Peak                         | 52.96                             | 8.21         | 61.17                  | 74.00                  | -12.83       |
| 19536.000    | Peak                         | 52.05                             | -1.97        | 50.08                  | 74.00                  | -23.92       |
| 21978.000    | Peak                         | 42.68                             | -1.23        | 41.45                  | 74.00                  | -32.55       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4884.000     | Average                | 56.79                         | -47.96                       | 8.83                         | 54.00                           | -45.17         |
| 7326.000     | Average                | 67.44                         | -47.96                       | 19.48                        | 54.00                           | -34.52         |
| 9768.000     | Average                | 59.61                         | -47.96                       | 11.65                        | 54.00                           | -42.35         |
| 12210.000    | Average                | 65.93                         | -47.96                       | 17.97                        | 54.00                           | -36.03         |
| 14652.000    | Average                | 63.62                         | -47.96                       | 15.66                        | 54.00                           | -38.34         |
| 17094.000    | Average                | 61.17                         | -47.96                       | 13.21                        | 54.00                           | -40.79         |
| 19536.000    | Average                | 50.08                         | -47.96                       | 2.12                         | 54.00                           | -51.88         |
| 21978.000    | Average                | 41.45                         | -47.96                       | -6.51                        | 54.00                           | -60.51         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2480 MHz

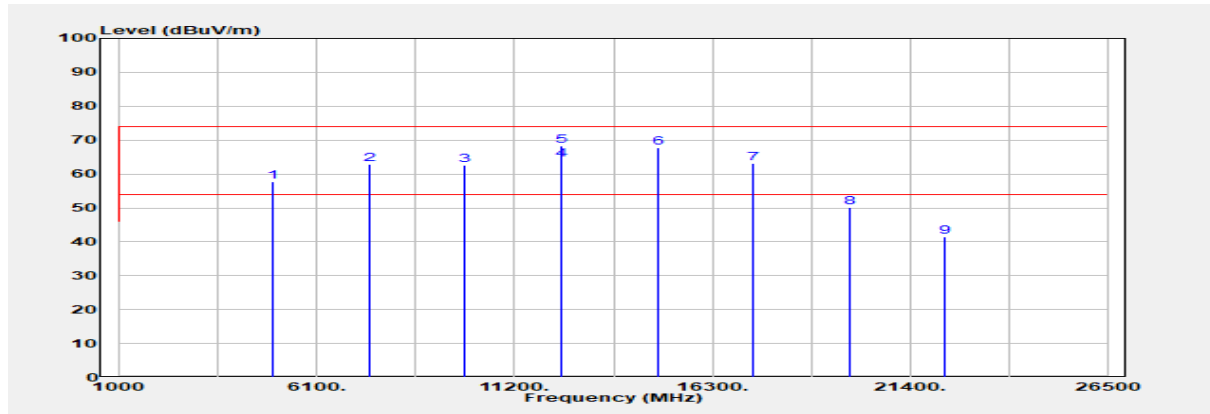
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4960.000     | Peak                         | 56.95                             | 0.70         | 57.64                  | 74.00                  | -16.36       |
| 7440.000     | Peak                         | 56.48                             | 6.52         | 62.99                  | 74.00                  | -11.01       |
| 9920.000     | Peak                         | 54.45                             | 8.23         | 62.67                  | 74.00                  | -11.33       |
| 12400.000    | Peak                         | 61.54                             | 6.81         | 68.35                  | 74.00                  | -5.65        |
| 14880.000    | Peak                         | 58.96                             | 8.76         | 67.72                  | 74.00                  | -6.28        |
| 17360.000    | Peak                         | 53.44                             | 9.77         | 63.21                  | 74.00                  | -10.79       |
| 19840.000    | Peak                         | 51.57                             | -1.40        | 50.17                  | 74.00                  | -23.83       |
| 22320.000    | Peak                         | 42.05                             | -0.64        | 41.41                  | 74.00                  | -32.59       |

| Freq.<br>MHz | Detector<br>Mode<br>AV | Peak Actual<br>FS<br>(dBμV/m) | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
|--------------|------------------------|-------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Average                | 57.64                         | -47.96                       | 9.68                         | 54.00                           | -44.32         |
| 7440.000     | Average                | 62.99                         | -47.96                       | 15.03                        | 54.00                           | -38.97         |
| 9920.000     | Average                | 62.67                         | -47.96                       | 14.71                        | 54.00                           | -39.29         |
| 12400.000    | Average                | 68.35                         | -47.96                       | 20.39                        | 54.00                           | -33.61         |
| 14880.000    | Average                | 67.72                         | -47.96                       | 19.76                        | 54.00                           | -34.24         |
| 17360.000    | Average                | 63.21                         | -47.96                       | 15.25                        | 54.00                           | -38.75         |
| 19840.000    | Average                | 50.17                         | -47.96                       | 2.21                         | 54.00                           | -51.79         |
| 22320.000    | Average                | 41.41                         | -47.96                       | -6.55                        | 54.00                           | -60.55         |

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Report Number :TERF2409002578E2

Test Site :SAC C

Operation Mode :BLE 1M

Test Date :2024-09-05

Test Frequency :2480 MHz

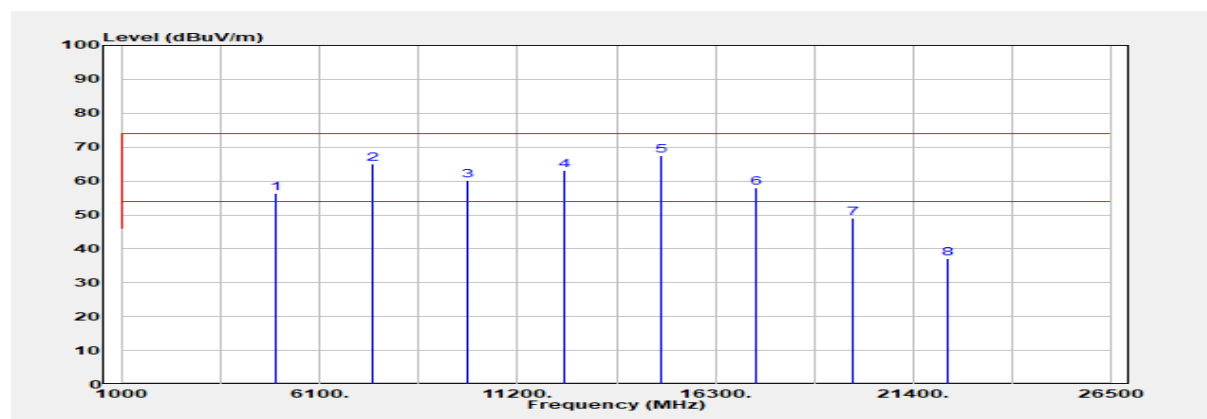
Temp./Humi. :22.2°C/54%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Alex Li



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB                 | Actual<br>FS<br>dBμV/m       | Limit<br>@3m<br>dBμV/m          | Margin<br>dB   |
|--------------|------------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Peak                         | 55.68                             | 0.70                         | 56.37                        | 74.00                           | -17.63         |
| 7440.000     | Peak                         | 58.58                             | 6.52                         | 65.10                        | 74.00                           | -8.90          |
| 9920.000     | Peak                         | 51.87                             | 8.23                         | 60.10                        | 74.00                           | -13.90         |
| 12400.000    | Peak                         | 56.37                             | 6.81                         | 63.18                        | 74.00                           | -10.82         |
| 14880.000    | Peak                         | 58.82                             | 8.76                         | 67.58                        | 74.00                           | -6.42          |
| 17360.000    | Peak                         | 48.19                             | 9.77                         | 57.96                        | 74.00                           | -16.04         |
| 19840.000    | Peak                         | 50.39                             | -1.40                        | 48.99                        | 74.00                           | -25.01         |
| 22320.000    | Peak                         | 37.80                             | -0.64                        | 37.16                        | 74.00                           | -36.84         |
| Freq.<br>MHz | Detector<br>Mode<br>AV       | Peak Actual<br>FS<br>(dBμV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBμV/m) | Average<br>Limit@3m<br>(dBμV/m) | Margin<br>(dB) |
| 4960.000     | Average                      | 56.37                             | -47.96                       | 8.41                         | 54.00                           | -45.59         |
| 7440.000     | Average                      | 65.10                             | -47.96                       | 17.14                        | 54.00                           | -36.86         |
| 9920.000     | Average                      | 60.10                             | -47.96                       | 12.14                        | 54.00                           | -41.86         |
| 12400.000    | Average                      | 63.18                             | -47.96                       | 15.22                        | 54.00                           | -38.78         |
| 14880.000    | Average                      | 67.58                             | -47.96                       | 19.62                        | 54.00                           | -34.38         |
| 17360.000    | Average                      | 57.96                             | -47.96                       | 10.00                        | 54.00                           | -44.00         |
| 19840.000    | Average                      | 48.99                             | -47.96                       | 1.03                         | 54.00                           | -52.97         |
| 22320.000    | Average                      | 37.16                             | -47.96                       | -10.80                       | 54.00                           | -64.80         |

~ End of Report ~

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