

# ELECTROMAGNETIC EMISSIONS CLASS II & IV PERMISSIVE CHANGE REPORT



**Applicant:** Acer Incorporated  
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22181, Taiwan (R.O.C)  
**Manufacturer:** Qunata Computer Inc.  
211 Wen Hwa 2nd Rd., Kueishan, Taoyuan 33377, Taiwan  
**Product Name:** 11ax RTL8852AE Combo Module  
**Brand Name:** acer  
**Model No.:** RTL8852AE  
**Report Number:** TERF2204000359E2  
**FCC ID** HLZRTL8852AE  
**IC:** 1754F-RTL8852AE  
**Issue Date:** Jun. 17, 2022  
**Date of Test:** Apr. 19, 2022 ~ May. 05, 2022  
**Date of EUT Received:** Apr. 06, 2022

Approved By

Jay Lin

## 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, ISSED RSS-247.

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

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

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## Revision History

| Report Number    | Revision | Description | Issue Date    | Revised By   | Remark |
|------------------|----------|-------------|---------------|--------------|--------|
| TERF2204000359E2 | 00       | Original.   | Jun. 17, 2022 | Yi-Shan Tsai |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product description

|                 |   |
|-----------------|---|
| Product Name:   | 11ax RTL8852AE Combo Module   |
| Brand Name:     | acer  |
| Model No.:      | RTL8852AE   |
| EUT Series No.: | N8KA3WW0012080BCE27600A   |
| Power Supply:   | 11.61Vdc from Rechargeable Lithium Ion Battery Pack<br>5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter |

### 1.2 RF Specification

|                   |                              |
|-------------------|------------------------------|
| Radio Technology: | BT BR+EDR                    |
| Channel number:   | 79 channels                  |
| Modulation type:  | GFSK + $\pi/4$ DQPSK + 8DPSK |
| Frequency Range:  | 2.402GHz – 2.480GHz          |

### 1.3 Antenna Designation

| Antenna Type | Supplier | Main / Aux | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|----------|------------|------------------|-------------|-------------------------|
| PIFA         | WNC      | Aux        | 81EABS15.G72     | 2402~2480   | 1.05                    |

**Note:**

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. 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  
KDB 558074 D01 v05r02 DSS Meas. Guidance  
RSS-247 issue 2 Feb. 2017  
RSS-Gen Issue 5, Amendment 2, February 2021  
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 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  |   |                |                        |                   |
| <b>Note:</b> 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 is no special accessory 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.

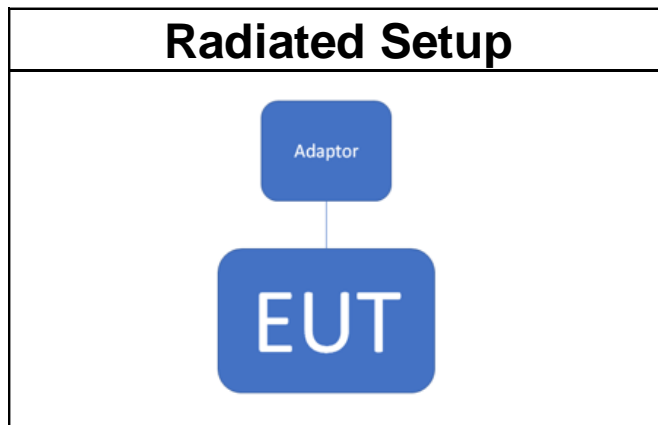
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| Radiated Emission Test Site: SAC D |        |              |               |           |          |
|------------------------------------|--------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR    | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Adapter                            | LITEON | PA-1650-58   | N/A           | N.C.R     | N.C.R    |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules             | IC Rules                     | Description Of Test        | Result    |
|-----------------------|------------------------------|----------------------------|-----------|
| §15.247(d)<br>§15.209 | RSS-247 §5.5<br>RSS-Gen §8.9 | Radiated Spurious Emission | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

| ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY |
|------|-----------|------|-----------|------|-----------|------|-----------|
| 1    | 2402 MHz  | 21   | 2422 MHz  | 41   | 2442 MHz  | 71   | 2462 MHz  |
| 2    | 2403 MHz  | 22   | 2423 MHz  | 42   | 2443 MHz  | 72   | 2463 MHz  |
| 3    | 2404 MHz  | 23   | 2424 MHz  | 43   | 2444 MHz  | 73   | 2464 MHz  |
| 4    | 2405 MHz  | 24   | 2425 MHz  | 44   | 2445 MHz  | 74   | 2465 MHz  |
| 5    | 2406 MHz  | 25   | 2426 MHz  | 45   | 2446 MHz  | 75   | 2466 MHz  |
| 6    | 2407 MHz  | 26   | 2427 MHz  | 46   | 2447 MHz  | 76   | 2467 MHz  |
| 7    | 2408 MHz  | 27   | 2428 MHz  | 47   | 2448 MHz  | 77   | 2468 MHz  |
| 8    | 2409 MHz  | 28   | 2429 MHz  | 48   | 2449 MHz  | 78   | 2469 MHz  |
| 9    | 2410 MHz  | 29   | 2430 MHz  | 49   | 2450 MHz  | 79   | 2470 MHz  |
| 10   | 2411 MHz  | 30   | 2431 MHz  | 50   | 2451 MHz  | 70   | 2471 MHz  |
| 11   | 2412 MHz  | 31   | 2432 MHz  | 51   | 2452 MHz  | 71   | 2472 MHz  |
| 12   | 2413 MHz  | 32   | 2433 MHz  | 52   | 2453 MHz  | 72   | 2473 MHz  |
| 13   | 2414 MHz  | 33   | 2434 MHz  | 53   | 2454 MHz  | 73   | 2474 MHz  |
| 14   | 2415 MHz  | 34   | 2435 MHz  | 54   | 2455 MHz  | 74   | 2475 MHz  |
| 15   | 2416 MHz  | 35   | 2436 MHz  | 55   | 2456 MHz  | 75   | 2476 MHz  |
| 16   | 2417 MHz  | 36   | 2437 MHz  | 56   | 2457 MHz  | 76   | 2477 MHz  |
| 17   | 2418 MHz  | 37   | 2438 MHz  | 57   | 2458 MHz  | 77   | 2478 MHz  |
| 18   | 2419 MHz  | 38   | 2439 MHz  | 58   | 2459 MHz  | 78   | 2479 MHz  |
| 19   | 2420 MHz  | 39   | 2440 MHz  | 59   | 2460 MHz  | 79   | 2480 MHz  |
| 20   | 2421 MHz  | 40   | 2441 MHz  | 60   | 2461 MHz  |      |           |

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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 radiated 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.

| MODE  | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION  | PACKET TYPE |
|---|-------------------|----------------|-------------|-------------|
| <b>RADIATED EMISSION TEST (BELOW 1 GHz)</b>   |                   |                |             |             |
| Bluetooth   | 0 to 78           | 39             | 8-DPSK      | 3DH5        |
| <b>RADIATED EMISSION TEST (ABOVE 1 GHz)</b>   |                   |                |             |             |
| Bluetooth   | 0 to 78           | 0,39,78        | GFSK/8-DPSK | DH5/3DH5    |
| <b>Note:</b> The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported. |                   |                |             |             |

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## 5 MEASUREMENT UNCERTAINTY

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|--|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 2.57 dB | 9kHz~30MHz      |
|  | +/- | 4.85 dB | 30MHz - 1000MHz |
|  | +/- | 4.45 dB | 1GHz - 18GHz    |
|  | +/- | 4.24 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 2.57 dB | 9kHz~30MHz      |
|  | +/- | 4.37 dB | 30MHz - 1000MHz |
|  | +/- | 4.45 dB | 1GHz - 18GHz    |
|  | +/- | 4.24 dB | 18GHz - 40GHz   |

**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 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 6.1 Standard Applicable

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:**

1. The lower limit shall apply at the transition frequencies.

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## 6.2 Measurement Equipment Used

| Radiated Emission Test Site: SAC D |                 |                   |                          |            |            |
|------------------------------------|-----------------|-------------------|--------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER      | SERIAL NUMBER            | LAST CAL.  | CAL DUE.   |
| Broadband Antenna                  | SCHWARZBECK     | VULB 9168         | 9168-617                 | 11/12/2021 | 11/11/2022 |
| Horn Antenna                       | Schwarzbeck     | BBHA9170          | 184                      | 12/16/2021 | 12/15/2022 |
| Horn Antenna                       | Schwarzbeck     | BBHA9120D         | 1341                     | 06/04/2021 | 06/03/2022 |
| Loop Antenna                       | ETS.LINDGREN    | 6502              | 143303                   | 05/07/2021 | 05/06/2022 |
| 3m Site NSA                        | SGS             | 966 chamber D     | N/A                      | 07/12/2021 | 07/11/2022 |
| Spectrum Analyzer                  | KEYSIGHT        | N9010A            | MY57120200               | 03/24/2022 | 03/23/2023 |
| Test Software                      | audix           | e3                | E3 20923 SGS Ver.9 ( C ) | N.C.R      | N.C.R      |
| Pre-Amplifier                      | EMC Instruments | EMC184045B        | 980135                   | 10/27/2021 | 10/26/2022 |
| Pre-Amplifier                      | EMC Instruments | EMC9135           | 980234                   | 11/18/2021 | 11/17/2022 |
| Pre-Amplifier                      | EMC Instruments | EMC12630SE        | 980273                   | 11/18/2021 | 11/17/2022 |
| Attenuator                         | Marvelous       | WATT-218FS-10     | RF17                     | 11/18/2021 | 11/17/2022 |
| Lowpass Filter                     | Woken           | EWI-56-0019       | RF173                    | 11/18/2021 | 11/17/2022 |
| High Pass Filter                   | R&S             | F13 HPF 3GHz      | RF175                    | 11/18/2021 | 11/17/2022 |
| Band Rejection Filter              | Micro-Tronics   | BRM50701-01       | RF201                    | 11/18/2021 | 11/17/2022 |
| Coaxial Cable                      | Huber+Suhner    | RG 214/U          | W21.01                   | 11/18/2021 | 11/17/2022 |
| Coaxial Cable                      | Huber Suhner    | EMC106-SM-SM-7200 | 150703                   | 11/18/2021 | 11/17/2022 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 104      | MY17413/4                | 11/18/2021 | 11/17/2022 |

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

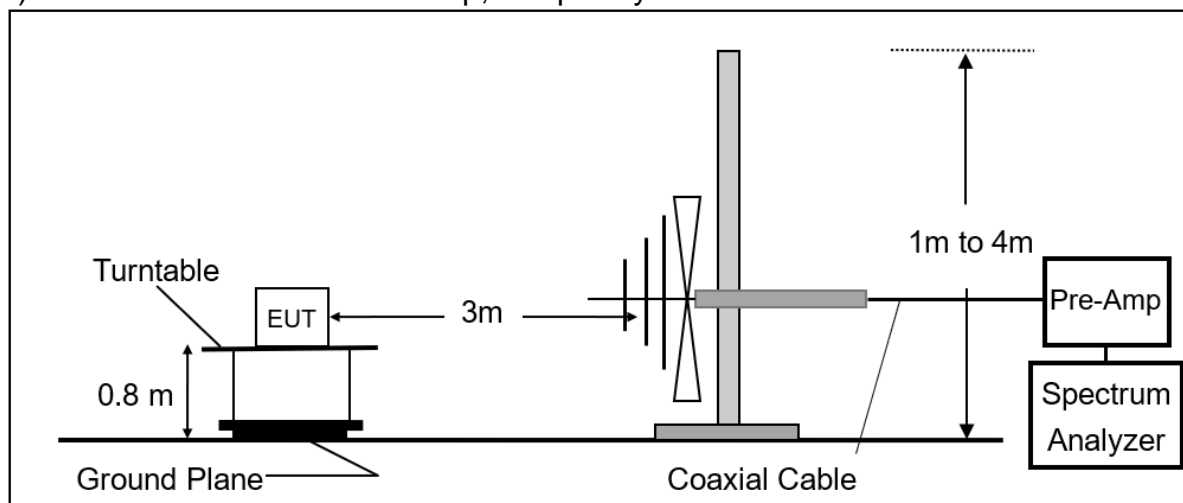
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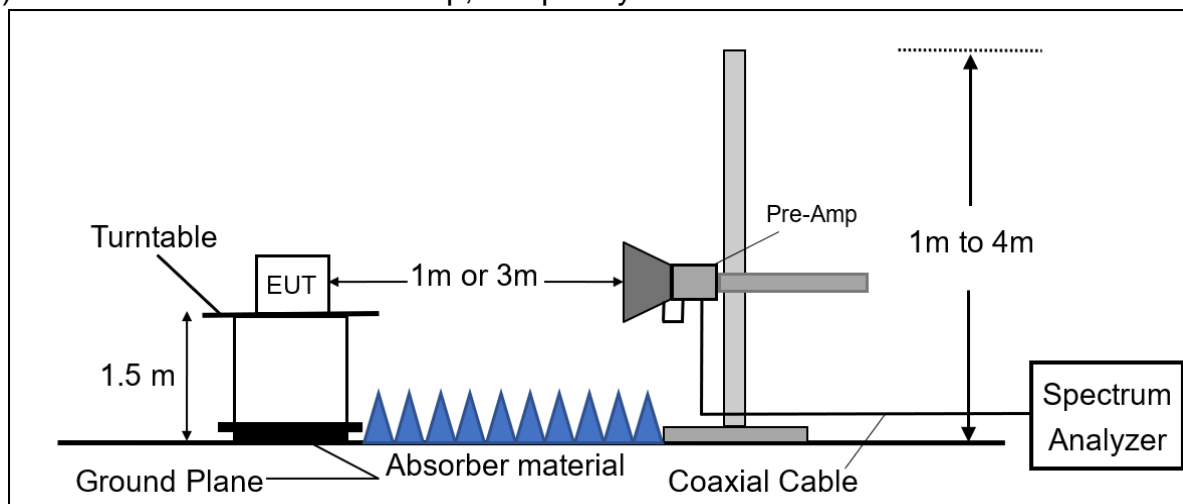
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### 6.3 Test SET-UP

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



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



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## 6.4 Measurement Procedure

### 6.4.1 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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 Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq 1/T$  (Duty cycle < 98%) for Average Detector 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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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## 6.5 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

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

*Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 6.6 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) & RSS-GEN §6.13.2 was not reported.

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## 6.7 Measurement Result:

### 6.7.1 Duty Cycle Correction Factor

#### BR

|  |        |    |
|--|--------|----|
| Time ON of 100ms:                          | 72.500 | ms |
| Duty Cycle=72.5ms / 100m:                  | 0.725  | %  |
| Duty Cycle correction factor=20 LOG 0.725= | -2.79  | dB |

#### EDR

|  |        |    |
|--|--------|----|
| Time ON of 100ms:                          | 75.400 | ms |
| Duty Cycle=75.4ms / 100m:                  | 0.754  | %  |
| Duty Cycle correction factor=20 LOG 0.754= | -2.45  | dB |

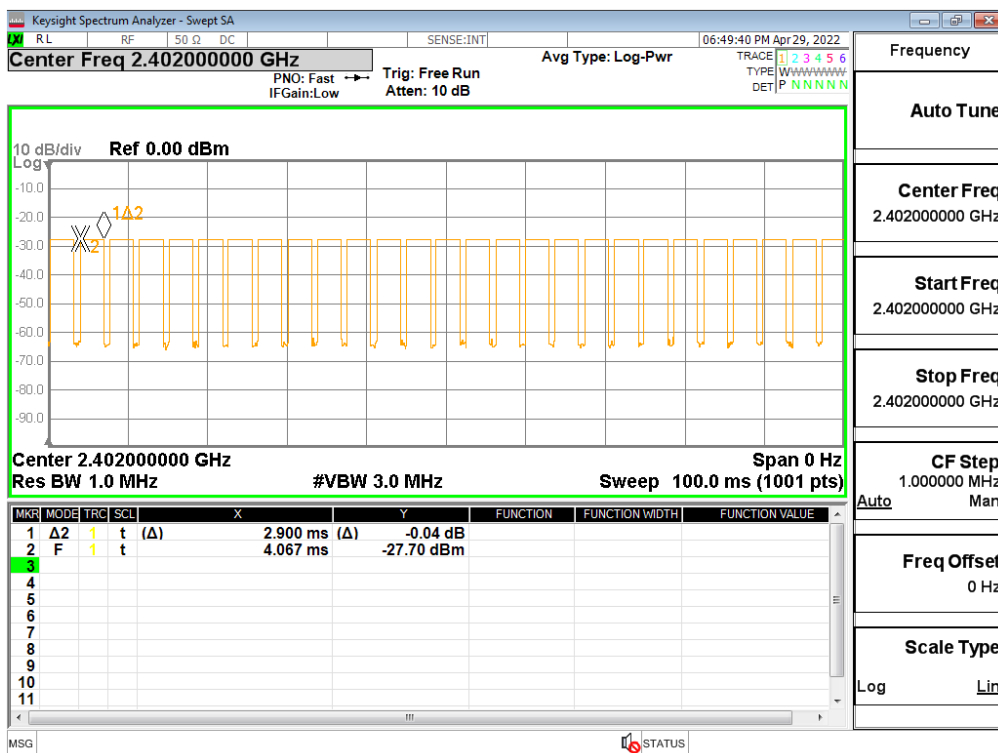
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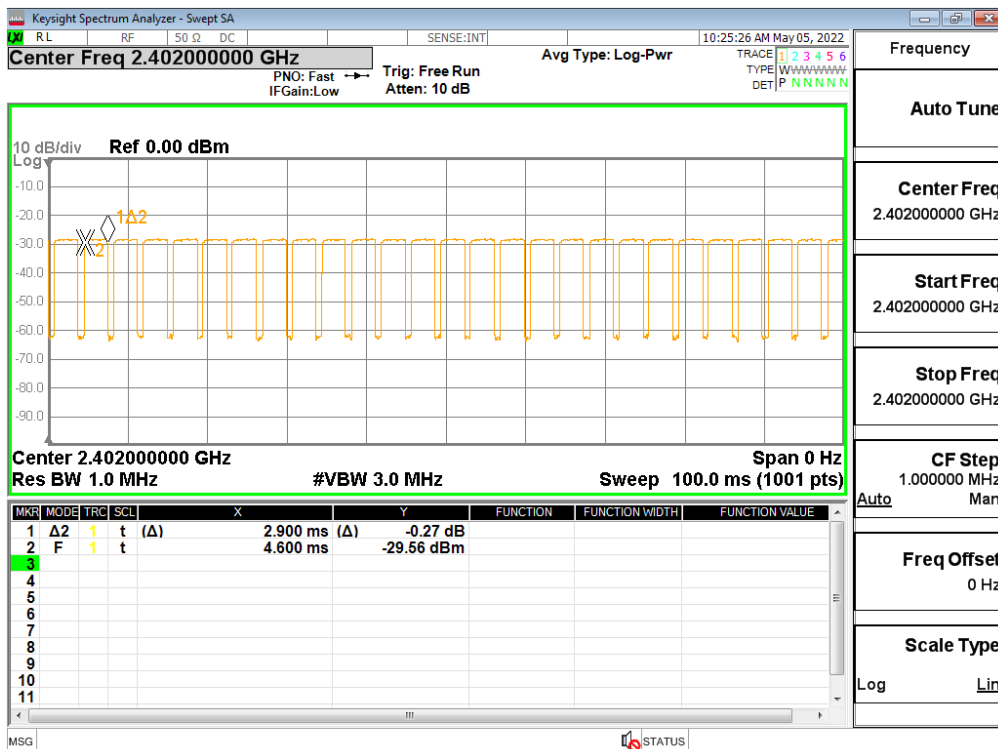
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## 6.7.2 Duty Cycle test plot

BR



EDR



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### 6.7.3 Radiated Spurious Emission

Report Number :TERF2204000359E2

Test Site :SAC D

Operation Mode :BT EDR 3M

Test Date :2022-04-19

Test Frequency :2441 MHz

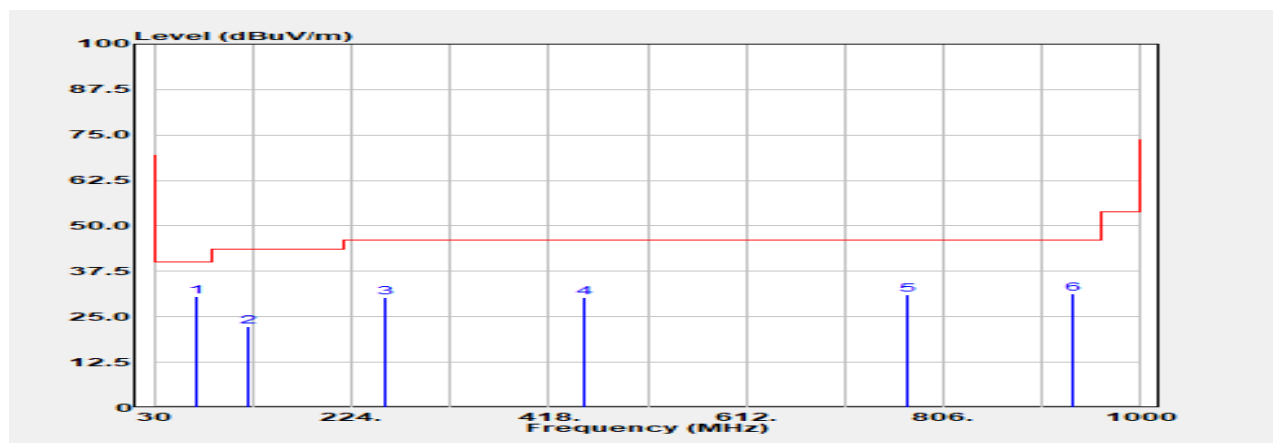
Temp./Humi. :19.2/66

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer : Andy Wang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|---------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 72.680       | Peak                      | 50.84                             | -20.18       | 30.66                  | 40.00                  | -9.34        |
| 122.150      | Peak                      | 41.62                             | -19.26       | 22.36                  | 43.50                  | -21.14       |
| 256.980      | Peak                      | 47.62                             | -17.35       | 30.27                  | 46.00                  | -15.73       |
| 452.920      | Peak                      | 42.06                             | -11.77       | 30.30                  | 46.00                  | -15.70       |
| 770.110      | Peak                      | 37.51                             | -6.47        | 31.04                  | 46.00                  | -14.96       |
| 932.100      | Peak                      | 35.99                             | -4.72        | 31.27                  | 46.00                  | -14.73       |

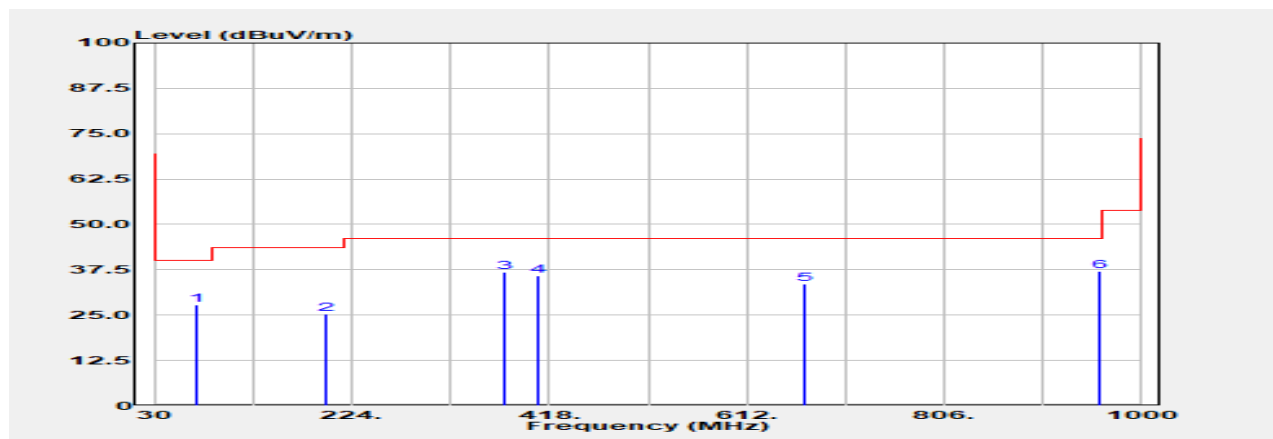
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Report Number :TERF2204000359E2  
 Operation Mode :BT EDR 3M  
 Test Frequency :2441 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC D  
 Test Date :2022-04-19  
 Temp./Humi. :19.2/66  
 Antenna Pol. :Horizontal  
 Engineer : Andy Wang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|---------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 72.680       | Peak                      | 48.00                             | -20.18       | 27.82                  | 40.00                  | -12.18       |
| 198.780      | Peak                      | 44.85                             | -19.66       | 25.19                  | 43.50                  | -18.31       |
| 374.350      | Peak                      | 50.76                             | -13.82       | 36.94                  | 46.00                  | -9.06        |
| 407.330      | Peak                      | 49.17                             | -13.45       | 35.72                  | 46.00                  | -10.28       |
| 668.260      | Peak                      | 41.66                             | -8.04        | 33.63                  | 46.00                  | -12.37       |
| 957.320      | Peak                      | 41.31                             | -4.25        | 37.06                  | 46.00                  | -8.94        |

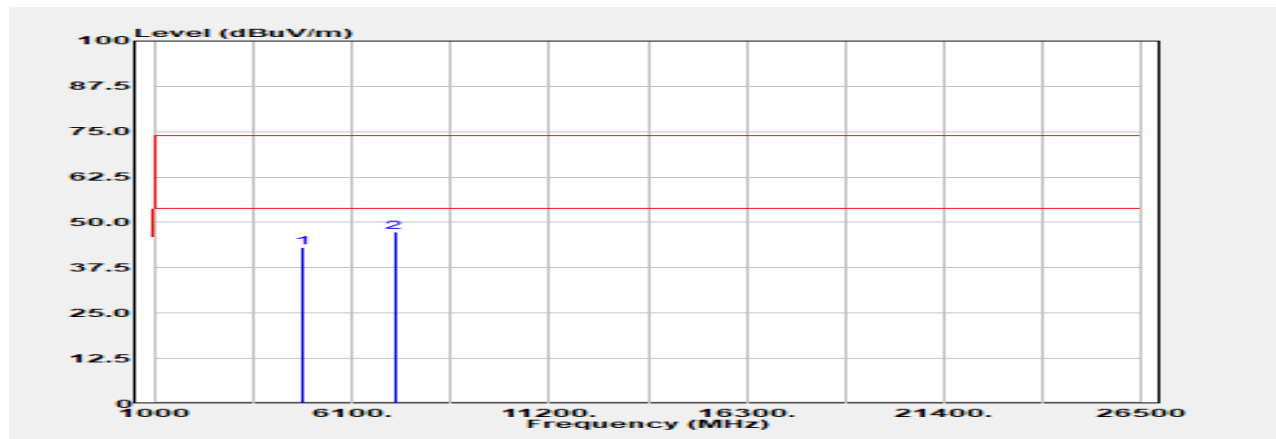
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Report Number :TERF2204000359E2  
Operation Mode :BT BR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Peak                      | 43.43                             | -0.29                        | 43.14                        | 74.00                           | -30.86         |
| 7206.000     | Peak                      | 40.93                             | 6.56                         | 47.49                        | 74.00                           | -26.51         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 43.14                             | -2.79                        | 40.35                        | 54.00                           | -13.65         |
| 7206.000     | Average                   | 47.49                             | -2.79                        | 44.70                        | 54.00                           | -9.30          |

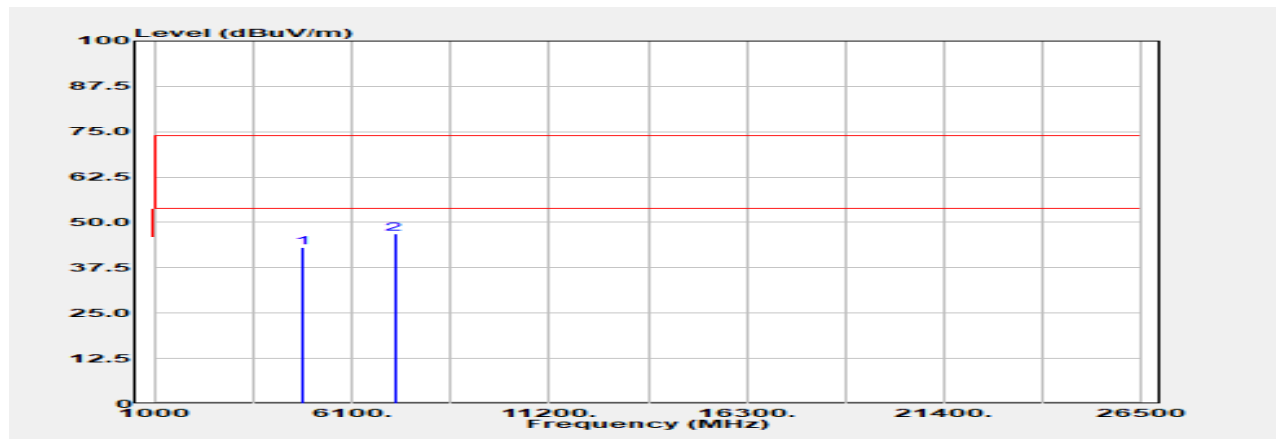
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Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Peak                      | 43.37                             | -0.29                        | 43.08                        | 74.00                           | -30.92         |
| 7206.000     | Peak                      | 40.18                             | 6.56                         | 46.75                        | 74.00                           | -27.25         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 43.08                             | -2.79                        | 40.29                        | 54.00                           | -13.71         |
| 7206.000     | Average                   | 46.75                             | -2.79                        | 43.96                        | 54.00                           | -10.04         |

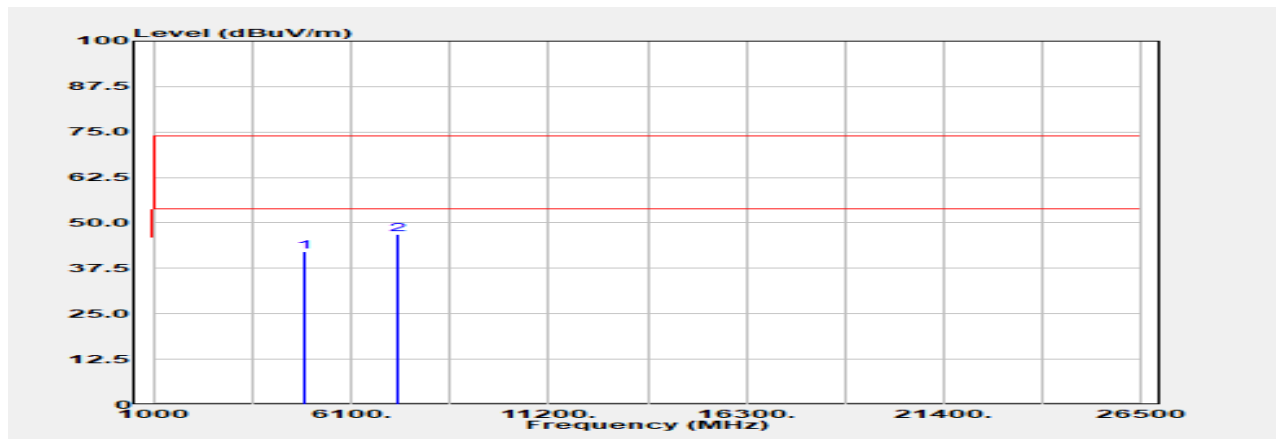
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Operation Mode :BT BR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000     | Peak                      | 42.51                             | -0.40                        | 42.11                        | 74.00                           | -31.89         |
| 7323.000     | Peak                      | 39.88                             | 6.94                         | 46.82                        | 74.00                           | -27.18         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 4882.000     | Average                   | 42.11                             | -2.79                        | 39.32                        | 54.00                           | -14.68         |
| 7323.000     | Average                   | 46.82                             | -2.79                        | 44.03                        | 54.00                           | -9.97          |

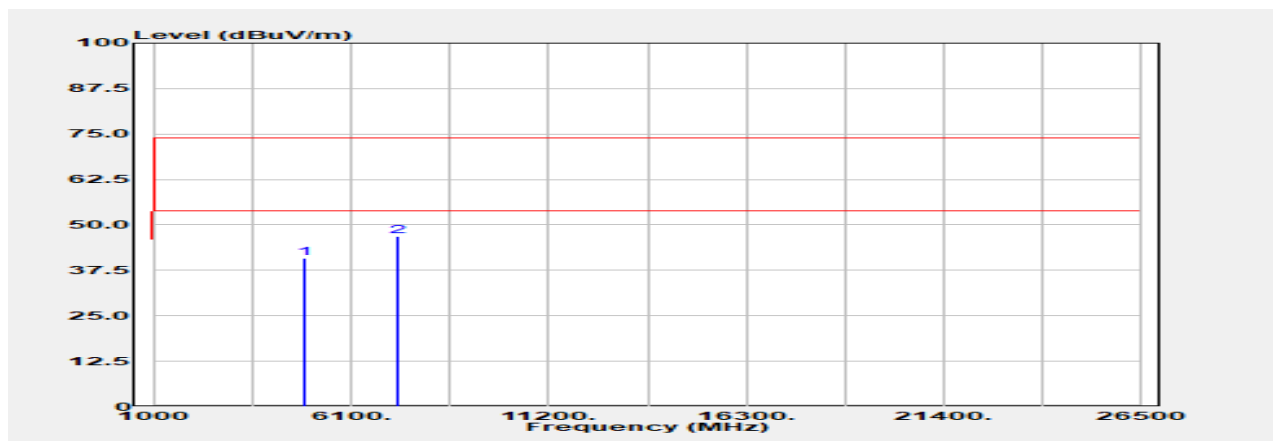
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Report Number :TERF2204000359E2  
Operation Mode :BT BR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | 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   |
|--------------|---------------------------|---|------------------------------|------------------------------------|---------------------------------------|----------------|
| 4882.000     | Peak                      | 41.14                                   | -0.40                        | 40.74                              | 74.00                                 | -33.26         |
| 7323.000     | Peak                      | 39.98                                   | 6.94                         | 46.91                              | 74.00                                 | -27.09         |
| 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) |
| 4882.000     | Average                   | 40.74                                   | -2.79                        | 37.95                              | 54.00                                 | -16.05         |
| 7323.000     | Average                   | 46.91                                   | -2.79                        | 44.12                              | 54.00                                 | -9.88          |

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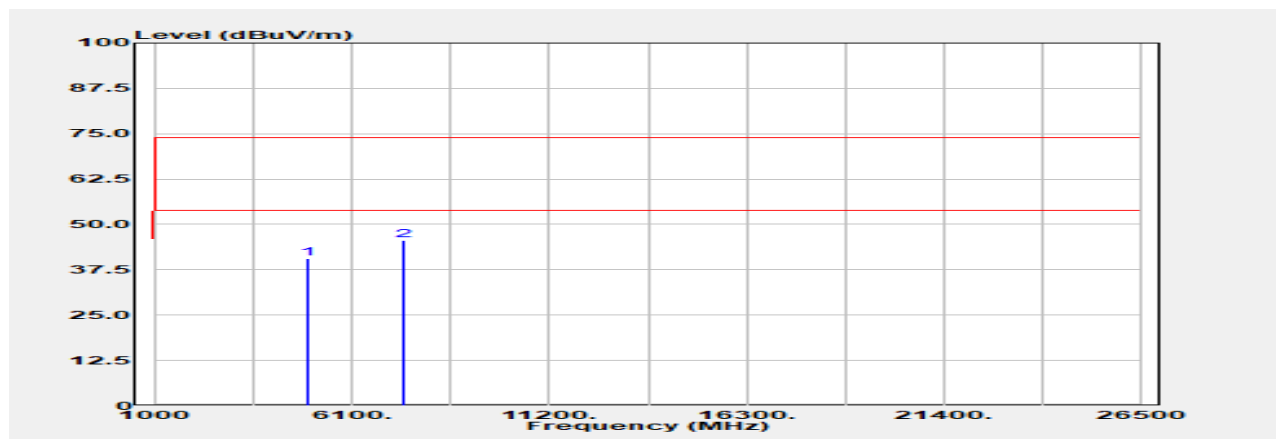
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Report Number :TERF2204000359E2  
Operation Mode :BT BR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Peak                      | 40.01                             | 0.50                         | 40.51                        | 74.00                           | -33.49         |
| 7440.000     | Peak                      | 38.81                             | 6.71                         | 45.52                        | 74.00                           | -28.48         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 40.51                             | -2.79                        | 37.72                        | 54.00                           | -16.28         |
| 7440.000     | Average                   | 45.52                             | -2.79                        | 42.73                        | 54.00                           | -11.27         |

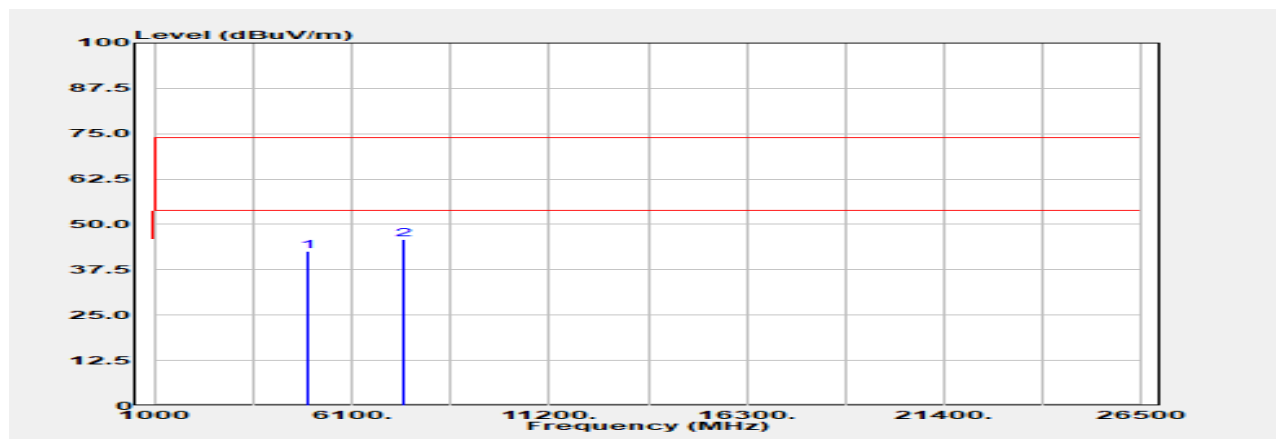
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Report Number :TERF2204000359E2  
Operation Mode :BT BR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-03  
Temp./Humi. :22.1/70  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Peak                      | 42.13                             | 0.50                         | 42.63                        | 74.00                           | -31.37         |
| 7440.000     | Peak                      | 39.21                             | 6.71                         | 45.91                        | 74.00                           | -28.09         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 42.63                             | -2.79                        | 39.84                        | 54.00                           | -14.16         |
| 7440.000     | Average                   | 45.91                             | -2.79                        | 43.12                        | 54.00                           | -10.88         |

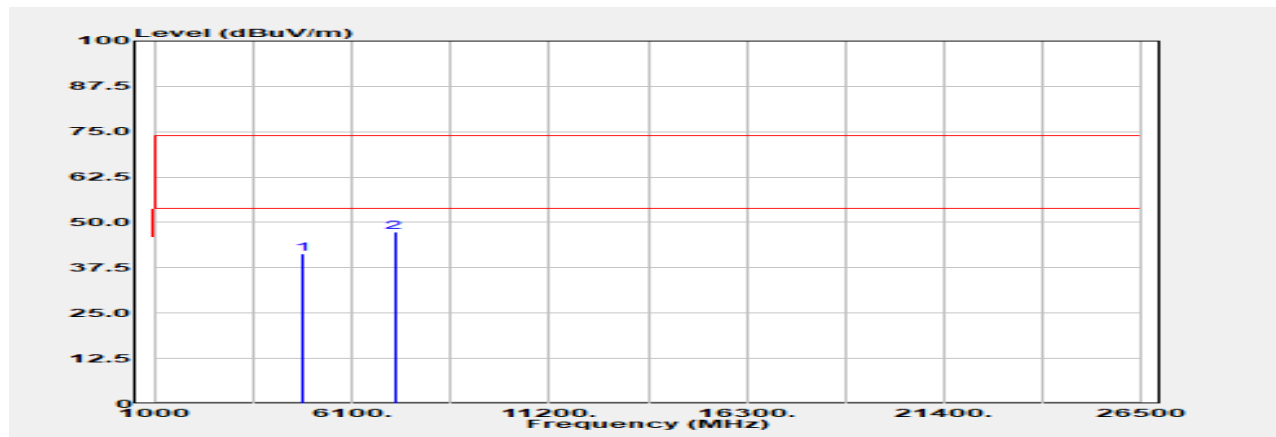
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Peak                      | 41.58                             | -0.29                        | 41.29                        | 74.00                           | -32.71         |
| 7206.000     | Peak                      | 40.91                             | 6.56                         | 47.47                        | 74.00                           | -26.53         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 41.29                             | -2.45                        | 38.84                        | 54.00                           | -15.16         |
| 7206.000     | Average                   | 47.47                             | -2.45                        | 45.02                        | 54.00                           | -8.98          |

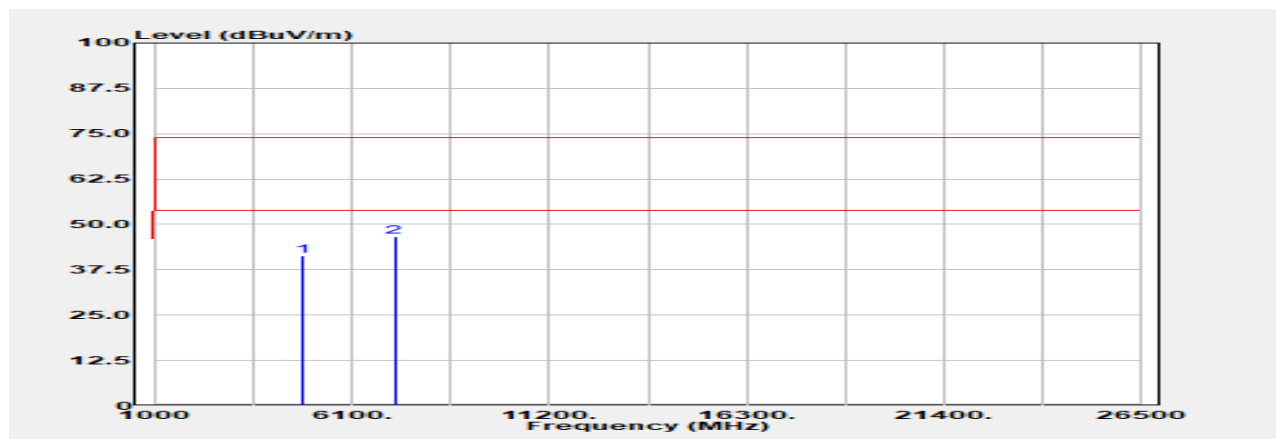
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000     | Peak                      | 41.74                             | -0.29                        | 41.46                        | 74.00                           | -32.54         |
| 7206.000     | Peak                      | 40.05                             | 6.56                         | 46.61                        | 74.00                           | -27.39         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 41.46                             | -2.45                        | 39.01                        | 54.00                           | -14.99         |
| 7206.000     | Average                   | 46.61                             | -2.45                        | 44.16                        | 54.00                           | -9.84          |

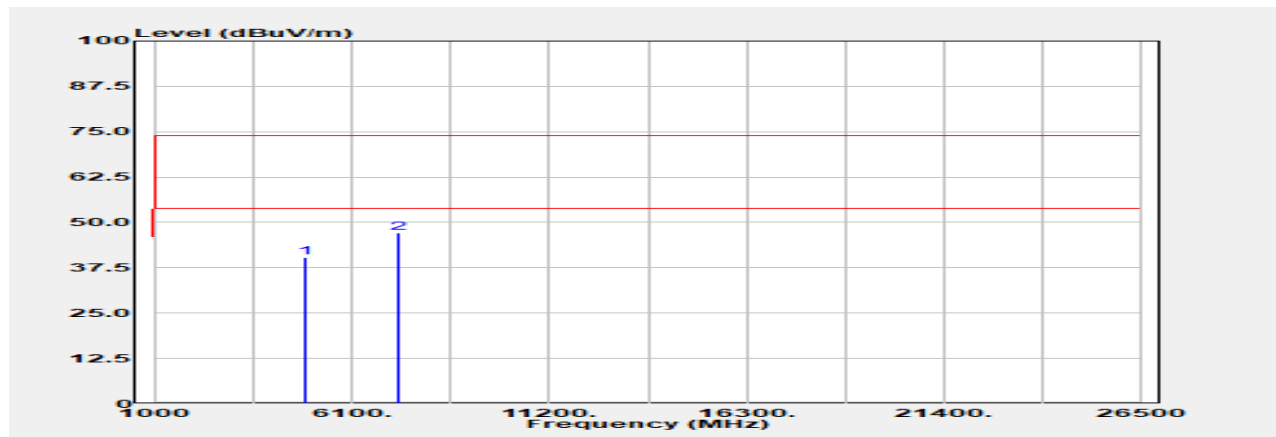
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000     | Peak                      | 40.64                             | -0.40                        | 40.24                        | 74.00                           | -33.76         |
| 7323.000     | Peak                      | 40.10                             | 6.94                         | 47.03                        | 74.00                           | -26.97         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 4882.000     | Average                   | 40.24                             | -2.45                        | 37.79                        | 54.00                           | -16.21         |
| 7323.000     | Average                   | 47.03                             | -2.45                        | 44.58                        | 54.00                           | -9.42          |

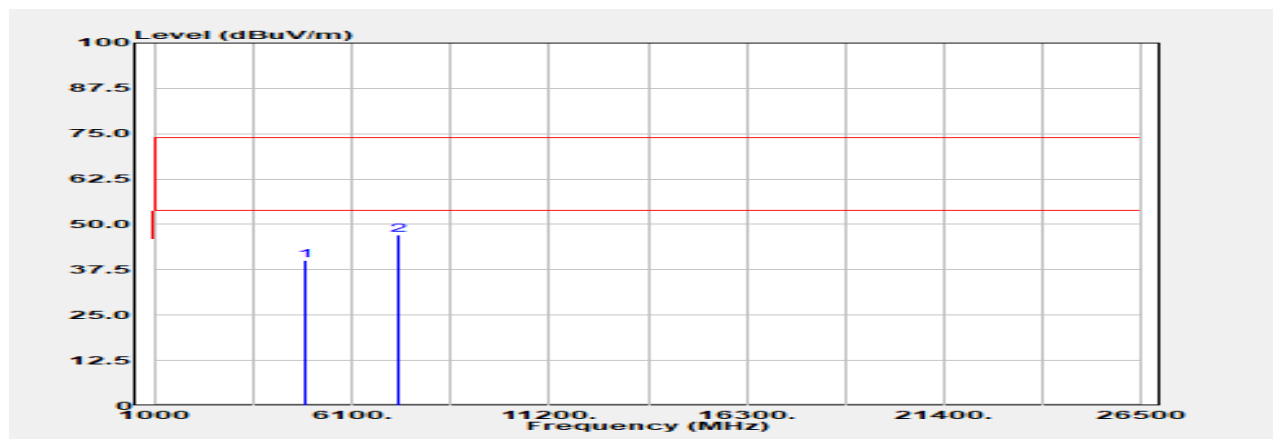
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000     | Peak                      | 40.62                             | -0.40                        | 40.23                        | 74.00                           | -33.77         |
| 7323.000     | Peak                      | 40.27                             | 6.94                         | 47.21                        | 74.00                           | -26.79         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/m)     | Duty Cycle<br>Factor<br>(dB) | Average<br>Value<br>(dBuV/m) | Average<br>Limit@3m<br>(dBuV/m) | Margin<br>(dB) |
| 4882.000     | Average                   | 40.23                             | -2.45                        | 37.78                        | 54.00                           | -16.22         |
| 7323.000     | Average                   | 47.21                             | -2.45                        | 44.76                        | 54.00                           | -9.24          |

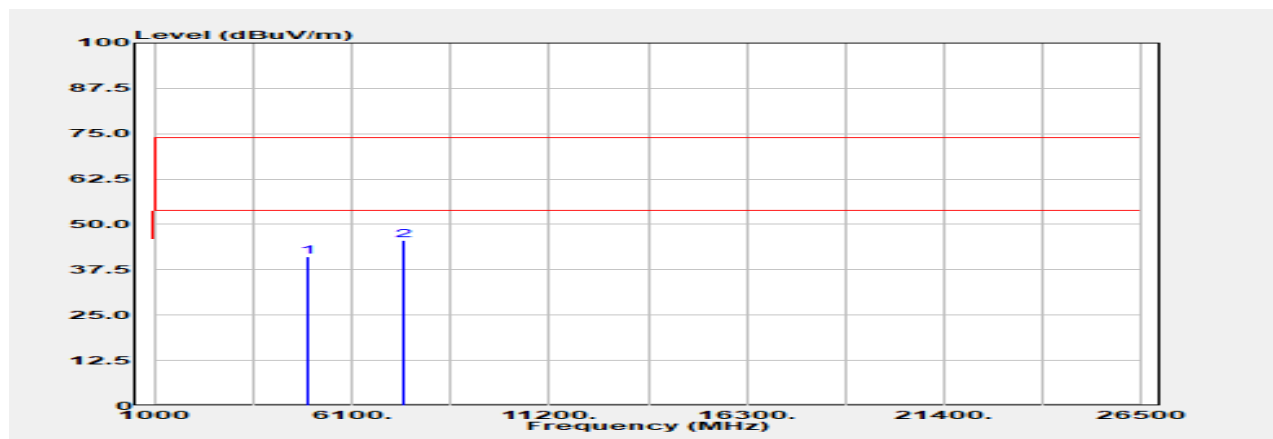
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Peak                      | 40.64                             | 0.50                         | 41.13                        | 74.00                           | -32.87         |
| 7440.000     | Peak                      | 39.02                             | 6.71                         | 45.72                        | 74.00                           | -28.28         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 41.13                             | -2.45                        | 38.68                        | 54.00                           | -15.32         |
| 7440.000     | Average                   | 45.72                             | -2.45                        | 43.27                        | 54.00                           | -10.73         |

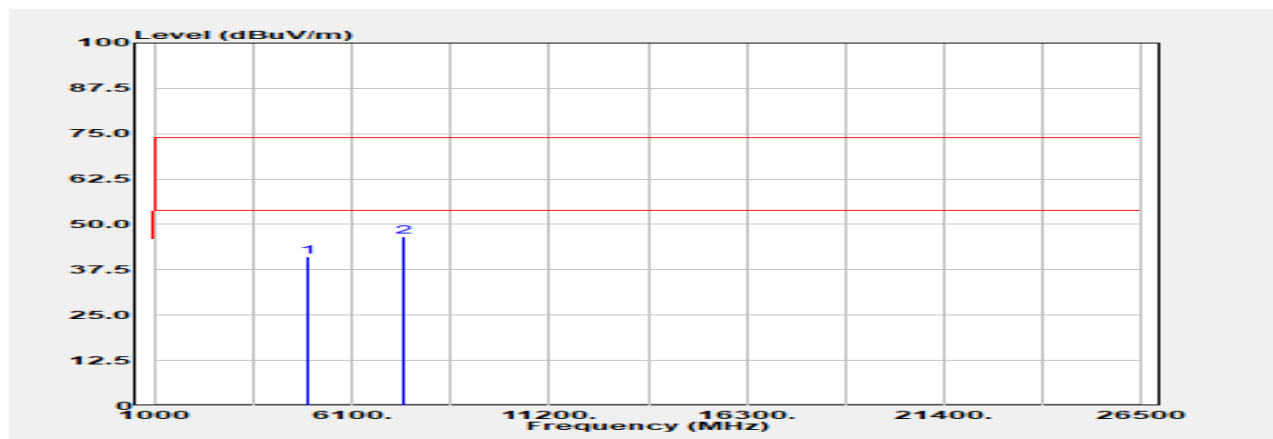
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Report Number :TERF2204000359E2  
Operation Mode :BT EDR 3M  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2022-05-05  
Temp./Humi. :20.2/69  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB                 | Actual<br>FS<br>dBuV/m       | Limit<br>@3m<br>dBuV/m          | Margin<br>dB   |
|--------------|---------------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000     | Peak                      | 40.68                             | 0.50                         | 41.17                        | 74.00                           | -32.83         |
| 7440.000     | Peak                      | 39.86                             | 6.71                         | 46.56                        | 74.00                           | -27.44         |
| Freq.<br>MHz | Detector<br>Mode<br>AV    | Peak Actual<br>FS<br>(dBuV/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                   | 41.17                             | -2.45                        | 38.72                        | 54.00                           | -15.28         |
| 7440.000     | Average                   | 46.56                             | -2.45                        | 44.11                        | 54.00                           | -9.89          |

~ End of Report ~

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