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ELECTROMAGNETIC EMISSIONS **COMPLIANCE TEST REPORT**





Applicant: CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,

NEW TAIPEI CITY 231030, TAIWAN (R.O.C)

Manufacturer: CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,

NEW TAIPEI CITY 231030, TAIWAN (R.O.C)

Product Name: Smart module

Brand Name: CASTLES **TECHNOLOGY**

Model No.: **SLM500**

Report Number: TERF2408002259E2

FCC ID WIYSLM500QA

IC: 27350-SLM500QA

Date of EUT Received: August 1, 2024

Date of Test: August 12, 2024~September 3, 2024

Issue Date: October 8, 2024

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, ISED 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 | |
| TERF2408002259E2 | 00 | Original | September 5, 2024 | Susan Lin | | |
| TERF2408002259E2 | 01 | Update section 8.2 | October 8, 2024 | Susan Lin | * | |
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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: | Smart module |
|-------------------------------|---|
| Brand Name: | CASTLES TECHNOLOGY |
| Model No.: | SLM500 |
| Hardware Version: | V1F.00 |
| Firmware Version: | N/A |
| EUT Series No.: | 196242025224 |
| Product Name of Host: | POS Terminal |
| Brand Name of Host: | CASTLES TECHNOLOGY |
| Model No. of Host: | S1E2-UPT |
| Power Supply: | 9Vdc from Adapter |
| Test Software (Name/Version): | Qualcomm Radio Control Tool 4.0.00161.0 |

1.2 RF Specification

| Radio Technology: | BLE |
|---------------------------------|------------------|
| Frequency Range: 2402 – 2480MHz | |
| Channel number: | 40 channels |
| Modulation type: | GFSK |
| Transmit Power: | BLE 1M: 3.20 dBm |

1.3 Antenna Designation

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|-----------------|-------------------------------------|---------------------|----------------|----------------------------|
| Dipole | ADVANCED WIRELESS & ANTENNA INC. | S1E2-UPT-WiFi | 2402~2480 | 2.42 |

Note: 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 DTS Meas. Guidance v05r02 RSS-247 issue 3 Aug. 2023 RSS-Gen, Issue 5 April 2018 ANSI C63.10:2013

1.5 **Test Facility**

| Laboratory | Test Site Address | Test Site Name | FCC Designa- tion number | IC CAB |
|-----------------|---------------------------------------|----------------|-----------------------------|--------|
| | | SAC 1 | | |
| | | SAC 2 | | |
| | | SAC 3 | | |
| | No.134, Wu Kung Road, New Taipei | Conduction 1 | | |
| | | Conducted 1 | T14/0007 | |
| | Industrial Park, Wuku District, New | Conducted 2 | TW0027 | |
| | Taipei City, Taiwan. | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| SGS Taiwan Ltd. | | Conducted 6 | | |
| Central RF Lab. | | Conduction C | | TW3702 |
| | | SAC C | | |
| (TAF code 3702) | | SAC D | | |
| | | SAC G | | |
| | No O Kaii 4at Del Coriale de Diatriat | Conducted A | | |
| | No.2, Keji 1st Rd., Guishan District, | Conducted B | TW0028 | |
| | Taoyuan City, Taiwan 333 | 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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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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 **Radiated Emissions**

The EUT is a 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.

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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.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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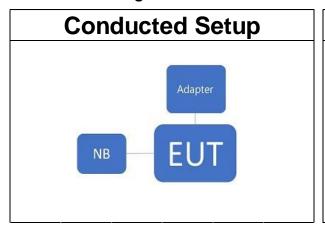
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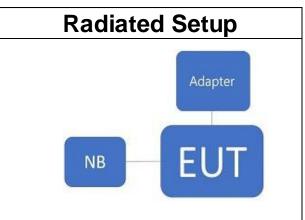


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2.5 **Test Configuration**





2.6 Control Unit(s)

| Conducted Emission Test Site: Conducted D | | | | | |
|---|-----------|---|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| USB Cable | l Max | USB-C1200 | N/A | N/A | N/A |
| AC Adapter | Castles | PW04-945A | N/A | N/A | N/A |
| Cable | HOMESHUN | CABLE FOR S1U2 HSG 4.2PITCH 2X3P FEMALE AND RJ45 8P8C FEMALE X2 TO HSG 2X10P 2.0PITCH L:750MM | N/A | N/A | N/A |
| Cable | TAI-CHING | CABLE FOR MARS1000 DC JACK | N/A | N/A | N/A |
| Notebook | Lenovo | T470 | P0001293 | N/A | N/A |

| Radiated Emission Test Site: SAC G | | | | | |
|------------------------------------|-----------|--|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| USB Cable | ASUS | ASUS USB-C Cable | N/A | N/A | N/A |
| Cable | HOMESHUN | CABLE FOR S1U2 HSG 4.2PITCH 2X3P FEMALE AND RJ45 8P8C FEMALE X2 TO HSG 2X10P 2.0PITCH L:750MM | N/A | N/A | N/A |
| Cable | TAI-CHING | CABLE FOR MARS1000 DC JACK | N/A | N/A | N/A |
| AC Adapter | Castles | PW04-945A | N/A | N/A | N/A |
| Notebook | Lenovo | T420 | S0012599 | N/A | N/A |

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SUMMARY OF TEST RESULTS

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|---|---|-----------|
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(d) §15.205 §15.209 | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 | Radiated Band Edge and Spurious Emission | Compliant |

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

| ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY |
|------|-----------|------|-----------|------|-----------|
| 1 | 2402 MHz | 15 | 2430 MHz | 29 | 2458 MHz |
| 2 | 2404 MHz | 16 | 2432 MHz | 30 | 2460 MHz |
| 3 | 2406 MHz | 17 | 2434 MHz | 31 | 2462 MHz |
| 4 | 2408 MHz | 18 | 2436 MHz | 32 | 2464 MHz |
| 5 | 2410 MHz | 19 | 2438 MHz | 33 | 2466 MHz |
| 6 | 2412 MHz | 20 | 2440 MHz | 34 | 2468 MHz |
| 7 | 2414 MHz | 21 | 2442 MHz | 35 | 2470 MHz |
| 8 | 2416MHz | 22 | 2444 MHz | 36 | 2472 MHz |
| 9 | 2418 MHz | 23 | 2446 MHz | 37 | 2474 MHz |
| 10 | 2420 MHz | 24 | 2448 MHz | 38 | 2476 MHz |
| 11 | 2422 MHz | 25 | 2450 MHz | 39 | 2478 MHz |
| 12 | 2424 MHz | 26 | 2452 MHz | 40 | 2480 MHz |
| 13 | 2426 MHz | 27 | 2454 MHz | | |
| 14 | 2428 MHz | 28 | 2456 MHz | | |
| | | | | | |

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.

| | CONDUCTED TEST | | | | | |
|--------------|----------------------|-------------------|------------|---------------------|--|--|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | | |
| Bluetooth LE | 0 to 39 | 0,19,39 | GFSK | 1 | | |

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| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|---|------------------------|--------------------|------------------|---------------------|--|
| MODE | DE AVAILABLE TESTED MC | | MODULATION | DATA RATE (Mbps) | |
| Bluetooth LE | 0 to 39 | 19 | GFSK | 1 | |
| | TRANSMIT RA | DIATED EMISSION TE | ST (ABOVE 1 GHz) | | |
| MODE | DATA RATE (Mbps) | | | | |
| Bluetooth LE | 0 to 39 | 0,19,39 | GFSK | 1 | |

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MEASUREMENT UNCERTAINTY

| Test Items | Ur | ncertaint | ty |
|--------------------------------|-----|-----------|----|
| Output Power measurement | +/- | 0.97 | dB |
| Conducted emission measurement | +/- | 0.77 | dB |
| Temperature | +/- | 0.6 | °C |
| Humidity | +/- | 3 | % |
| DC / AC Power Source | +/- | 1 | % |

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

| Conducted Emission Test Site: Conducted D | | | | | | | | | | |
|---|------------|-------------------------------------|---------------|------------|------------|--|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | | |
| Attenuator | Marvelous | MVE2213-10 | RF10 | 11/15/2023 | 11/14/2024 | | | | | |
| DC Block MITEQ | | W70289-5108 | RF159 | 11/15/2023 | 11/14/2024 | | | | | |
| Power Meter | Anritsu | ML2496A | 1804002 | 04/26/2024 | 04/25/2025 | | | | | |
| Power Sensor | Anritsu | MA2411B | 1726105 | 04/26/2024 | 04/25/2025 | | | | | |
| Power Sensor | Anritsu | MA2411B | 1726106 | 04/26/2024 | 04/25/2025 | | | | | |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY57120290 | 04/10/2024 | 04/09/2025 | | | | | |
| Test Software | SGS Taiwan | Dynamic Frequency Selection Test | Ver. 22.01.24 | N.C.R | N.C.R | | | | | |

6.2 Radiated Measurement

| Radiated Emission Test Site: SAC G | | | | | | | | | | |
|------------------------------------|-----------------|--|-----------------------------|------------|------------|--|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | | |
| 3m Site NSA | SGS | 966 chamber G | N/A | 03/30/2024 | 03/29/2025 | | | | | |
| Active Loop Antenna | COM-POWER | AL-130R | 10160105 | 12/04/2023 | 12/03/2024 | | | | | |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 1208 | 07/17/2024 | 07/16/2025 | | | | | |
| Coaxial Cable | EMC Instruments | EMC104-SM-SM- 8000-5000-5000 | 210219 \ 210220 \ 210221 | 03/13/2024 | 03/12/2025 | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM- NM-8000-5000- 2000 | 210216 \ 210217 \ 210218 | 03/13/2024 | 03/12/2025 | | | | | |
| High Pass Filter | WI | WHKX10-2624- 3200-18000-80SS | RF210 | 11/15/2023 | 11/14/2024 | | | | | |
| Horn Antenna | RF SPIN | DRH18-E | 210105A18E | 04/12/2024 | 04/11/2025 | | | | | |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/28/2023 | 12/27/2024 | | | | | |
| Lowpass Filter | Woken | EWT-56-0019 | RF173 | 11/15/2023 | 11/14/2024 | | | | | |
| Pre-Amplifier | EMC Instruments | EMC118A45SE | 980815 | 05/08/2024 | 05/07/2025 | | | | | |
| Pre-Amplifier | EMC Instruments | EMC18405SEE | 980881 | 11/15/2023 | 11/14/2024 | | | | | |
| Pre-Amplifier | EMC Instruments | EMC330N | 980781 | 03/13/2024 | 03/12/2025 | | | | | |
| 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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PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

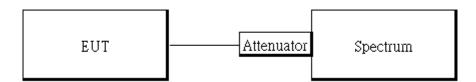
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

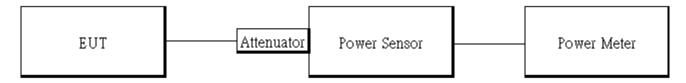
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.2 **Test Setup**

7.2.1 Duty Cycle



7.2.2 Output Power



7.3 **Measurement Procedure:**

7.3.1 **Duty Cycle**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero

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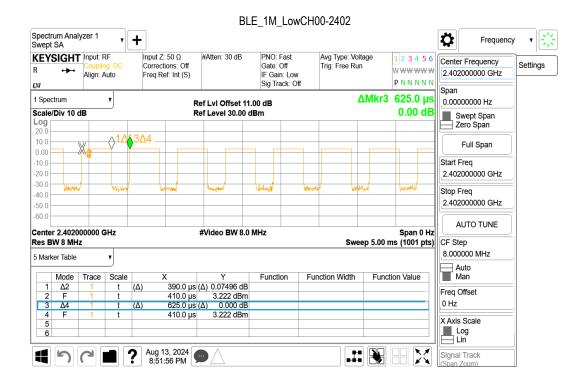
- 3. RBW = 8MHz, VBW = 8MHz,
- 4. Detector = Peak

7.3.2 Output Power

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

7.4 Duty Factor:

| | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) =10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|--------|--------------------------------------|---|-----------|----------------------|
| BLE 1M | 66.00 | 1.80 | 2.56 | 3.00 |



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Output Power:

7.5.1 Peak & Avg

BLE 1M mode:

| СН | Frequency Power (MHz) Setting | | | | • | Required Limit (dBm) |
|----|-------------------------------|---------|-------------------------|-------------------------|---|-------------------------|
| 0 | 2402 | default | 3.20 | 30 | | |
| 19 | 2440 | default | 2.76 | 30 | | |
| 39 | 2480 | default | 2.47 | 30 | | |
| СН | Frequency Power (MHz) Setting | | Avg. Output Power (dBm) | Required Limit (dBm) | | |
| 0 | 2402 | default | 2.84 | 30 | | |
| 19 | 2440 | default | 2.39 | 30 | | |
| 39 | 2480 | default | 2.05 | 30 | | |

^{*}Note:

7.5.2 **EIRP**

EIRP BLE 1M mode

| СН | Frequency (MHz) | Power Setting | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | | Limit | |
|----|--------------------|------------------|----------------------------|--------------------------|---------------|-----|-------|-----|
| 0 | 2402 | default | 2.84 | 2.42 | 5.26 | 4W= | 36 | dBm |
| 19 | 2440 | default | 2.39 | 2.42 | 4.81 | 4W= | 36 | dBm |
| 39 | 2480 | default | 2.05 | 2.42 | 4.47 | 4W= | 36 | dBm |

^{*} Note: EIRP = Average Power + Gain

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^{1.} Measured by power meter, cable loss 11 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.



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8 SPURIOUS EMISSION MEASUREMENT

8.1 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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a 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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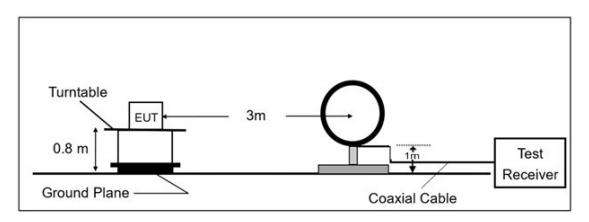


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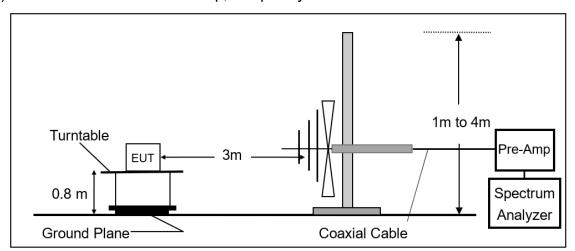


Test SET-UP

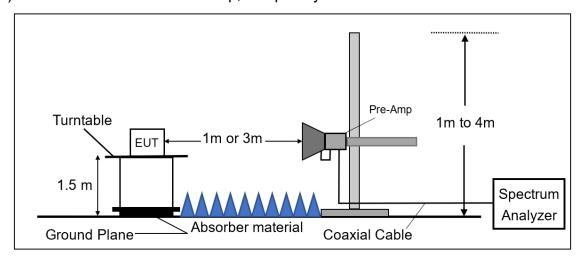
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 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 Peak Detector 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 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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8.4 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

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

8.5 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.

8.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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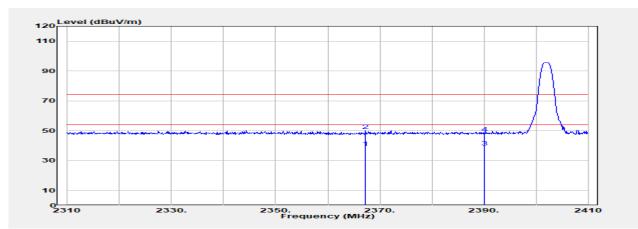
8.6.1 **Radiated Band Edge Measurement Result**

:SAC G Chamber Report Number :TERF2408002259E2 Test Site

Operation Mode :BLE 1M **Test Date** :2024-08-19 **Test Frequency** :2402 MHz Temp./Humi. :21.2°C/65%

Test Mode Antenna Pol. :Vertical :Bandedge

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 2367.300 | Average | 42.03 | -3.24 | 38.78 | 54.00 | -15.22 |
| 2367.300 | Peak | 53.46 | -3.24 | 50.22 | 74.00 | -23.78 |
| 2390.000 | Average | 42.17 | -3.28 | 38.90 | 54.00 | -15.10 |
| 2390.000 | Peak | 51.68 | -3.28 | 48.40 | 74.00 | -25.60 |

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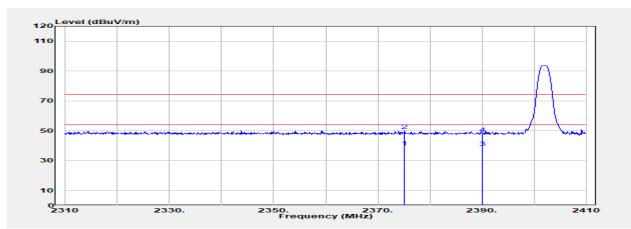
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Report Number :TERF2408002259E2 **Test Site** :SAC G Chamber

Operation Mode :BLE 1M **Test Date** :2024-08-19 **Test Frequency** :21.2°C/65% :2402 MHz Temp./Humi. Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :Jacky Chen :H Plane Engineer



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | |
| 2375.100 | Average | 42.26 | -3.25 | 39.01 | 54.00 | -14.99 |
| 2375.100 | Peak | 53.25 | -3.25 | 50.00 | 74.00 | -24.00 |
| 2390.000 | Average | 42.08 | -3.28 | 38.80 | 54.00 | -15.20 |
| 2390.000 | Peak | 51.30 | -3.28 | 48.02 | 74.00 | -25.98 |

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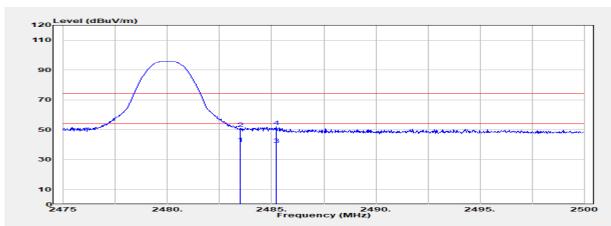
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Report Number :TERF2408002259E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2024-08-19
Test Frequency :2480 MHz Temp./Humi. :21.2°C/65%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 2483.500 | Average | 43.88 | -3.31 | 40.57 | 54.00 | -13.43 |
| 2483.500 | Peak | 54.08 | -3.31 | 50.77 | 74.00 | -23.23 |
| 2485.200 | Average | 43.30 | -3.31 | 39.99 | 54.00 | -14.01 |
| 2485.200 | Peak | 55.24 | -3.31 | 51.93 | 74.00 | -22.07 |

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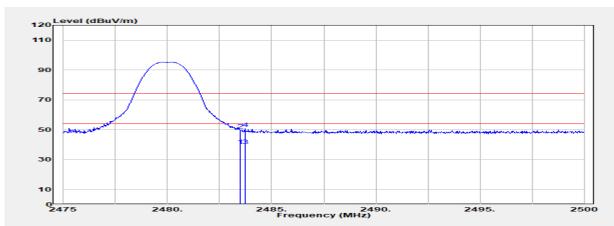
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Report Number :TERF2408002259E2 **Test Site** :SAC G Chamber

Operation Mode :BLE 1M **Test Date** :2024-08-19 :21.2°C/65% **Test Frequency** :2480 MHz Temp./Humi. Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :Jacky Chen :H Plane Engineer



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | _ |
| 2483.500 | Average | 42.58 | -3.31 | 39.27 | 54.00 | -14.73 |
| 2483.500 | Peak | 52.94 | -3.31 | 49.62 | 74.00 | -24.38 |
| 2483.725 | Average | 42.56 | -3.31 | 39.25 | 54.00 | -14.75 |
| 2483.725 | Peak | 54.20 | -3.31 | 50.89 | 74.00 | -23.11 |

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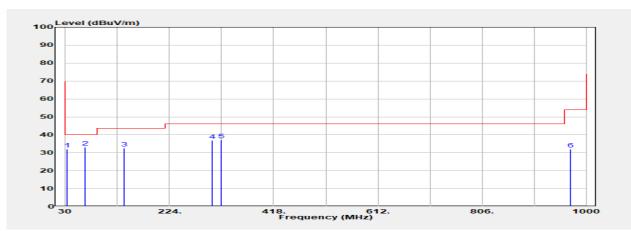
8.6.2 **Radiated Spurious Emission**

Test Site :SAC G Chamber Report Number :TERF2408002259E2

Operation Mode :BLE 1M **Test Date** :2024-08-21 **Test Frequency** :2440 MHz Temp./Humi. :21.5°C/66%

Test Mode Antenna Pol. :Vertical :Tx

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | |
| 32.910 | Peak | 46.53 | -14.56 | 31.97 | 40.00 | -8.03 |
| 66.860 | Peak | 47.42 | -14.22 | 33.20 | 40.00 | -6.80 |
| 139.610 | Peak | 46.20 | -13.59 | 32.61 | 43.50 | -10.89 |
| 303.540 | Peak | 48.89 | -11.92 | 36.97 | 46.00 | -9.03 |
| 321.000 | Peak | 48.28 | -11.21 | 37.06 | 46.00 | -8.94 |
| 970.900 | Peak | 30.64 | 1.26 | 31.90 | 54.00 | -22.10 |

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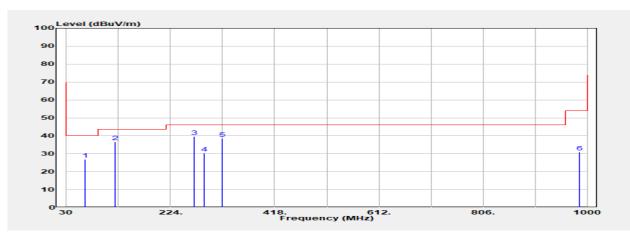


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Report Number :TERF2408002259E2 **Test Site** :SAC G Chamber

Operation Mode :BLE 1M **Test Date** :2024-08-21 **Test Frequency** :21.5°C/66% :2440 MHz Temp./Humi. Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :Jacky Chen :H Plane Engineer



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|-----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | |
| 64.920 | Peak | 40.68 | -13.81 | 26.87 | 40.00 | -13.13 |
| 121.180 | Peak | 52.24 | -15.54 | 36.70 | 43.50 | -6.80 |
| 268.620 | Peak | 52.64 | -13.01 | 39.63 | 46.00 | -6.37 |
| 286.080 | QP | 42.60 | -12.22 | 30.38 | 46.00 | -15.62 |
| 320.030 | Peak | 49.79 | -11.22 | 38.57 | 46.00 | -7.43 |
| 986.420 | Peak | 30.21 | 0.82 | 31.02 | 54.00 | -22.98 |

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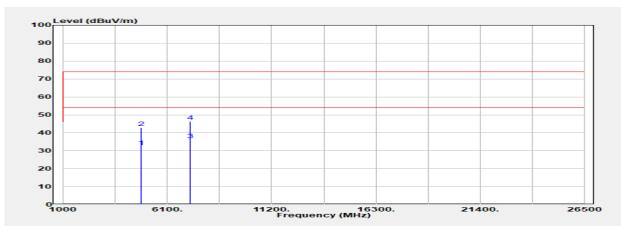
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Report Number :TERF2408002259E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2024-08-19
Test Frequency :2402 MHz Temp./Humi. :21.2°C/65%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | _ |
| 4804.000 | Average | 28.81 | 3.33 | 32.14 | 54.00 | -21.86 |
| 4804.000 | Peak | 39.45 | 3.33 | 42.78 | 74.00 | -31.22 |
| 7206.000 | Average | 26.83 | 9.17 | 36.00 | 54.00 | -18.00 |
| 7206.000 | Peak | 37.30 | 9.17 | 46.47 | 74.00 | -27.53 |

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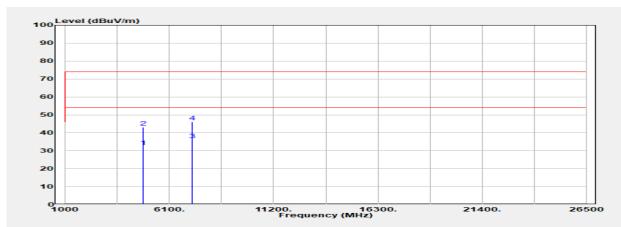


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Report Number **Test Site** :SAC G Chamber :TERF2408002259E2

Operation Mode :BLE 1M **Test Date** :2024-08-19 **Test Frequency** :21.2°C/65% :2402 MHz Temp./Humi. Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 4804.000 | Average | 28.87 | 3.33 | 32.20 | 54.00 | -21.80 |
| 4804.000 | Peak | 39.86 | 3.33 | 43.19 | 74.00 | -30.81 |
| 7206.000 | Average | 26.78 | 9.17 | 35.95 | 54.00 | -18.05 |
| 7206.000 | Peak | 37.03 | 9.17 | 46.20 | 74.00 | -27.80 |

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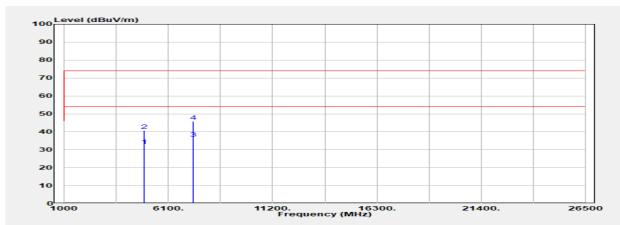
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Report Number **Test Site** :SAC G Chamber :TERF2408002259E2

Operation Mode :BLE 1M **Test Date** :2024-08-19 **Test Frequency** :21.2°C/65% :2440 MHz Temp./Humi.

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 4880.000 | Average | 28.77 | 3.51 | 32.28 | 54.00 | -21.72 |
| 4880.000 | Peak | 37.27 | 3.51 | 40.78 | 74.00 | -33.22 |
| 7320.000 | Average | 26.55 | 9.79 | 36.34 | 54.00 | -17.66 |
| 7320.000 | Peak | 36.03 | 9.79 | 45.81 | 74.00 | -28.19 |

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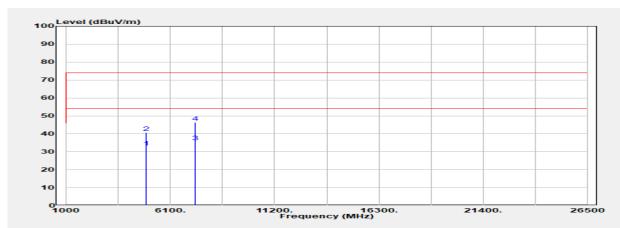


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Report Number :TERF2408002259E2 Test Site :SAC G Chamber

Operation Mode:BLE 1MTest Date:2024-08-19Test Frequency:2440 MHzTemp./Humi.:21.2℃/65%Test Mode:TxAntenna Pol.:Horizontal

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 4880.000 | Average | 28.92 | 3.51 | 32.43 | 54.00 | -21.57 |
| 4880.000 | Peak | 37.09 | 3.51 | 40.60 | 74.00 | -33.40 |
| 7320.000 | Average | 25.72 | 9.79 | 35.51 | 54.00 | -18.49 |
| 7320.000 | Peak | 36.52 | 9.79 | 46.30 | 74.00 | -27.70 |

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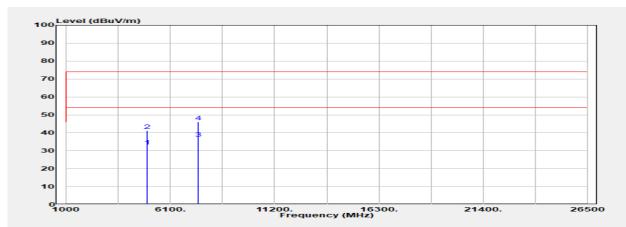
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Report Number **Test Site** :SAC G Chamber :TERF2408002259E2

Operation Mode :BLE 1M **Test Date** :2024-08-19 **Test Frequency** :21.2°C/65% :2480 MHz Temp./Humi.

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| | | | | | | |
| 4960.000 | Average | 28.67 | 3.86 | 32.53 | 54.00 | -21.47 |
| 4960.000 | Peak | 37.26 | 3.86 | 41.12 | 74.00 | -32.88 |
| 7440.000 | Average | 26.77 | 10.14 | 36.91 | 54.00 | -17.09 |
| 7440.000 | Peak | 35.81 | 10.14 | 45.95 | 74.00 | -28.05 |

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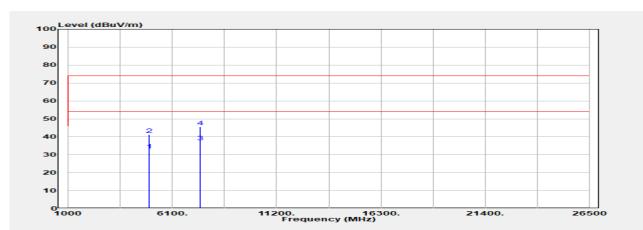
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Report Number **Test Site** :SAC G Chamber :TERF2408002259E2

Operation Mode :BLE 1M **Test Date** :2024-08-19 :21.2°C/65% **Test Frequency** :2480 MHz Temp./Humi. Test Mode :Tx Antenna Pol. :Horizontal **EUT Pol** :H Plane Engineer :Jacky Chen



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AVG | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 4960.000 | Average | 28.69 | 3.86 | 32.55 | 54.00 | -21.45 |
| 4960.000 | Peak | 37.34 | 3.86 | 41.20 | 74.00 | -32.80 |
| 7440.000 | Average | 26.92 | 10.14 | 37.06 | 54.00 | -16.94 |
| 7440.000 | Peak | 35.40 | 10.14 | 45.54 | 74.00 | -28.46 |

~ End of Report ~

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