

Report No.: SHEM210700721301

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TEST REPORT

Application No.: SHEM2107007213CR

FCC ID: 2AVJ8-CB1542 25804-CB1542

Applicant: DewertOkin Technology Group Co., Ltd.

Address of Applicant: Room 247, Floor 6, Jiaxing Photovoltaic Science and Innovation Park,

No.1288, Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Province,

China

DewertOkin Technology Group Co., Ltd. Manufacturer:

Address of Manufacturer: No.465, Xinnanyang Road, Wangjiangjing Development Zone, Xiuzhou

District, Jiaxing City, Zhejiang Province.

Factory: DewertOkin Technology Group Co., Ltd.

No.465, Xinnanyang Road, Wangjiangjing Development Zone, Xiuzhou Address of Factory:

District, Jiaxing City, Zhejiang Province.

Equipment Under Test (EUT):

EUT Name: CONTROL BOX

Model No.: CB1542

Standard(s): 47 CFR Part 15, Subpart C 15.249

RSS-210 Issue10. December 2019

RSS-Gen Issue 5 Amendment 2 (February 2021)

2021-07-01 **Date of Receipt:**

2021-07-04 to 2021-08-10 **Date of Test:**

Date of Issue: 2021-08-18

PASS* **Test Result:**

Parlam Zhan

检验检测专用章

Laboratory Manager The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | | | |
|---------------------------------|----------|------------|---|--|--|--|
| Version Description Date Remark | | | | | | |
| 00 | Original | 2021-08-18 | 1 | | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|----------------------------|--|
| | Bril Wu | |
| | Bill Wu / Project Engineer | |
| | Parlam Zhan | |
| | Parlam Zhan / Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|---|------------------|------------|------|-------|--|--|
| Item FCC Requirement IC Requirement Method Result | | | | | | |
| Antenna Requirement | 47 CFR Part 15, | RSS-Gen | N/A | Pass | | |
| / titterina requirement | Subpart C 15.249 | Clause 6.8 | IN/A | 1 455 | | |

| Radio Spectrum Matter Part | | | | | | |
|--|-------------------------------------|--|--|--------|--|--|
| Item | FCC Requirement | IC Requirement | Method | Result | | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.249 | RSS-Gen Section 6.7 | ANSI C63.10 (2013) Section 6.9 | Pass | | |
| Field Strength of the Fundamental Signal (15.249(a)) | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue10 Annex B B.10 | ANSI C63.10 (2013) Section 6.5&6.6 | Pass | | |
| Restricted Band Around Fundamental Frequency | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue10 Annex B B.10& RSS- Gen Section 8.9 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | Pass | | |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.249 | RSS-210 Issue10 Annex B B.10& RSS- Gen Section 8.9 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | Pass | | |
| 99% Bandwidth | - | RSS-Gen Section 6.7 | ANSI C63.10 Section 6.9.3 | Pass | | |



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 29V
Test voltage: DC 29V
Modulation Type GFSK
Number of Channels 78

Operation Frequency 2403MHz~2480MHz

Channel Spacing 1MHz

Antenna Type PCB Antenna

Antenna Gain: 1dBi (Provided by the manufacturer)

S/N: CB154203X17915010001

Firmware version: V1.1

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---------------------------|--------------|----------------|------------|
| DC Source | 1 | 1 | 1 |
| Laptop | Lenovo | ThinkPad X100e | 1 |
| Serial port adapter plate | 1 | Test Plate 3 | 1 |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 10 ⁻⁸ |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| - | DE Dadiated Dawer | 5.1dB (Below 1GHz) |
| 5 | RF Radiated Power | 4.9dB (Above 1GHz) |
| | | 4.2dB (Below 30MHz) |
| 6 | Dadieted Chumeus Emissies Test | 4.5dB (30MHz-1GHz) |
| 6 | Radiated Spurious Emission Test | 5.1dB (1GHz-18GHz) |
| | | 5.4dB (Above 18GHz) |
| 7 | Temperature Test | 1°C |
| 8 | Humidity Test | 3% |
| 9 | Supply Voltages | 1.5% |
| 10 | Time | 3% |

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



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xingiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized by Federal Communications Commission (FCC) as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

ISED#: 8617A.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

• GAC (No. ATL 0031)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International standard ISO/IEC 17025: 2017.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List

| Equipment Manufacturer M | | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|-------------------------------|-----------------------|------------|--------------|
| RF Conducted Test | | | - | | • |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2020-12-20 | 2021-12-19 |
| Spectrum Analyzer Agilent | | N9020A | SHEM181-1 | 2020-08-13 | 2021-08-12 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2020-08-13 | 2021-08-12 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2020-08-13 | 2021-08-12 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2020-08-13 | 2021-08-12 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2020-08-13 | 2021-08-12 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2020-08-13 | 2021-08-12 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | 1 |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2018-09-25 | 2021-09-24 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2020-12-20 | 2021-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2020-12-20 | 2021-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2020-12-20 | 2021-12-19 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2020-12-20 | 2021-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2020-12-20 | 2021-12-19 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2020-12-20 | 2021-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2019-10-14 | 2021-10-13 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2020-04-30 | 2022-04-29 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2018-10-24 | 2021-10-23 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2019-10-14 | 2021-10-13 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2018-10-31 | 2021-10-30 |
| Pre-amplifier (9KHz-2GHz) | CLAVIIO | BDLNA-0001 | SHEM164-1 | 2020-08-13 | 2021-08-12 |
| Pre-amplifier (1-18GHz) | CLAVIIO | BDLNA-0118 | SHEM050-2 | 2020-08-13 | 2021-08-12 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2020-12-20 | 2021-12-19 |
| Signal Generator | R&S | SMR40 | SHEM058-1 | 2020-08-13 | 2021-08-12 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | 1 | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2020-05-25 | 2023-05-24 |
| RE test Cable | 1 | RE01, RE02, RE06 | 1 | 2020-12-20 | 2021-12-19 |
| Test software | ESE | E3 | Version: 6.111221a | / | 1 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

15.203 requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement. The best case gain of the antenna is 1dBi.

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

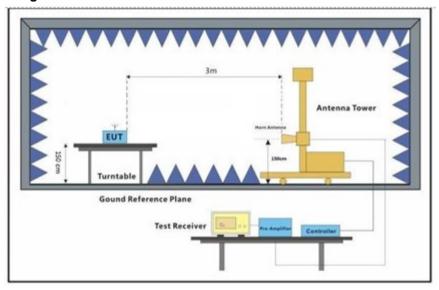
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1. Place the EUT on the table and set it in Engineering mode.
- 2. Set the spectrum analyzer as RBW = approximately 1 % to 5 % of the OBW (set 30 kHz), VBW =3* RBW, Span=3MHz, Sweep=auto
- 3. Mark the peak frequency and -20dB (upper and lower) frequency.
- 4. Repeat above procedures until all frequency measured was complete.



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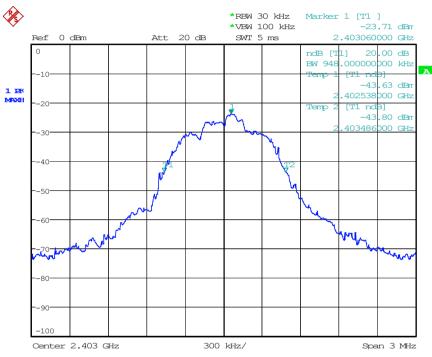
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| Frequency (MHz) | | |
|--------------------|-------|------|
| 2403 | 0.948 | PASS |
| 2442 | 0.954 | PASS |
| 2480 | 0.996 | PASS |

Test plot as follows:

Channel: 2403MHz



Date: 1.AUG.2021 10:09:00



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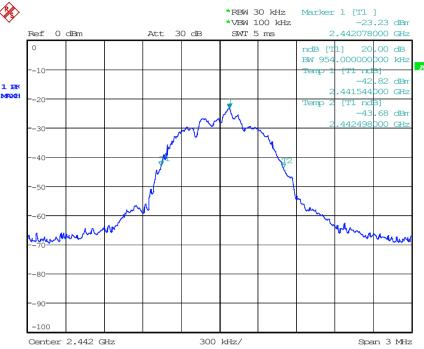
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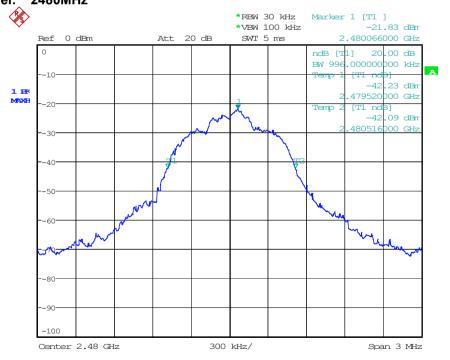
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Channel: 2442MHz



Date: 1.AUG.2021 10:11:29
Channel: 2480MHz



Date: 1.AUG.2021 10:20:01



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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Test Site:

Measurement Distance: 3m

Receiver Setup:

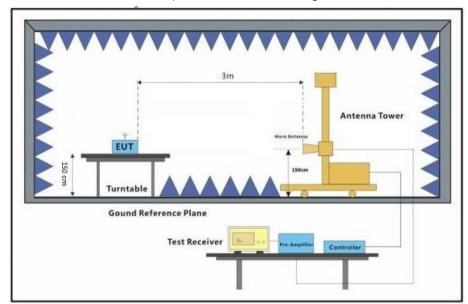
| Frequency | Detector | RBW | VBW | Remark |
|------------|----------|------|------|---------|
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Average | 1MHz | 10Hz | Average |

Limit:

| Frequency | Limit (dBuV/m) | Remark |
|-----------------|----------------|---------|
| 2400~2483.5 MHz | 114 | Peak |
| | 94 | Average |

E.U.T. Operation: Operating Environment:

Temperature: 20℃ Humidity: 50% RH Atmospheric Pressure: 1002 mbar Test Mode: a:TX:mode Keep the EUT in transmitting with modulation mode



Test Setup:

Test Procedure:

测专用章

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and

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then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Results: Pass

Measurement Data

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----------------|----------------------|------------------|-------------------|------------------------|--------------------|----------|--------------|
| 0.400 | 86.12 | -3.39 | 82.73 | 94 | -11.27 | Peak | Horizontal |
| 2403 | 81.77 | -3.39 | 78.38 | 94 | -15.62 | Peak | Vertical |

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----------------|----------------------|------------------|-------------------|------------------------|--------------------|----------|--------------|
| 0440 | 83.91 | -3.34 | 80.57 | 94 | -13.43 | Peak | Horizontal |
| 2442 | 77.87 | -3.34 | 74.53 | 94 | -19.47 | Peak | Vertical |

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----------------|----------------------|------------------|-------------------|------------------------|--------------------|----------|--------------|
| 0.400 | 86.06 | -3.27 | 82.79 | 94 | -11.21 | Peak | Horizontal |
| 2480 | 79.45 | -3.27 | 76.18 | 94 | -17.82 | Peak | Vertical |

Remark:

The basic equation with a sample calculation is as follows: Level = Read Level + Factor.

(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)

2) If the Peak value below the Average Limit, the Average test doesn't perform for this submission.



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

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

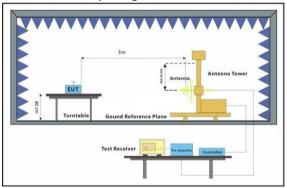
7.3.1 E.U.T. Operation

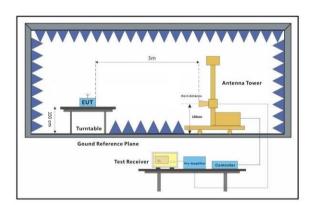
Operating Environment:

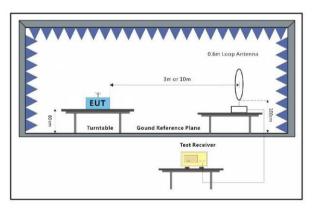
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram









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7.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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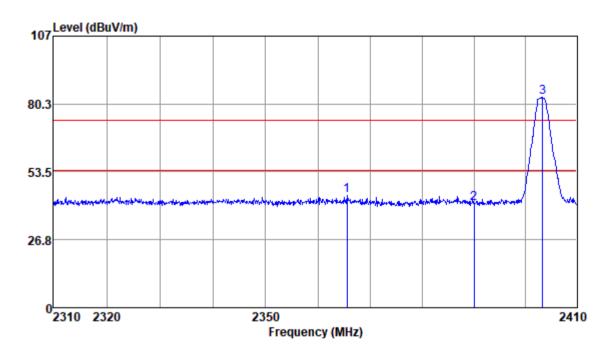
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2403MHz:



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2365.58 | 47.72 | 28.94 | 2.75 | 35.16 | 44.25 | 74.00 | -29.75 | Peak |
| 2390.00 | 44.38 | 28.97 | 2.77 | 35.18 | 40.94 | 74.00 | -33.06 | Peak |
| 2403.37 | 86.12 | 29.01 | 2.79 | 35.19 | 82.73 | 74.00 | 8.73 | Peak |

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



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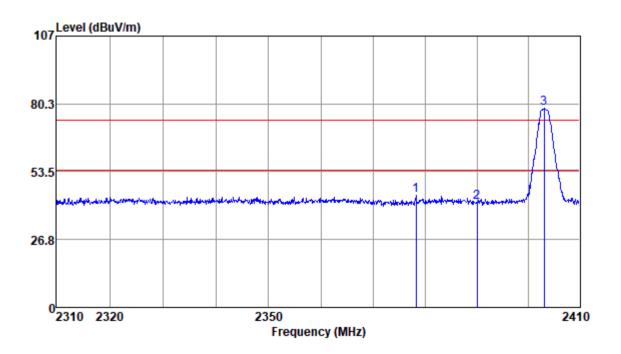
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Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2378.24 | 48.30 | 28.40 | 2.76 | 35.17 | 44.29 | 74.00 | -29.71 | Peak |
| 2390.00 | 44.73 | 28.97 | 2.77 | 35.18 | 41.29 | 74.00 | -32.71 | Peak |
| 2403.07 | 81.77 | 29.01 | 2.79 | 35.19 | 78.38 | 74.00 | 4.38 | Peak |

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



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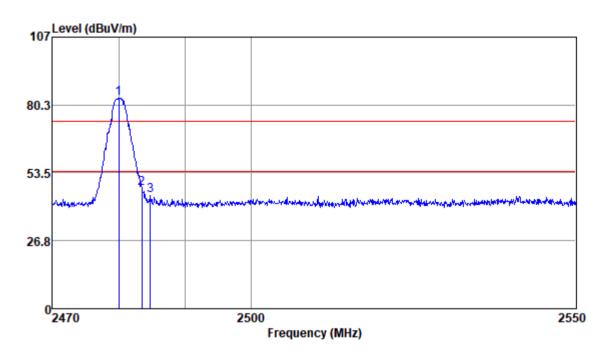
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2480MHz:



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2480.02 | 86.06 | 29.10 | 2.88 | 35.25 | 82.79 | 74.00 | 8.79 | Peak |
| 2483.50 | 50.79 | 29.11 | 2.88 | 35.26 | 47.52 | 74.00 | -26.48 | Peak |
| 2484.77 | 47.81 | 29.11 | 2.88 | 35.26 | 44.54 | 74.00 | -29.46 | Peak |

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



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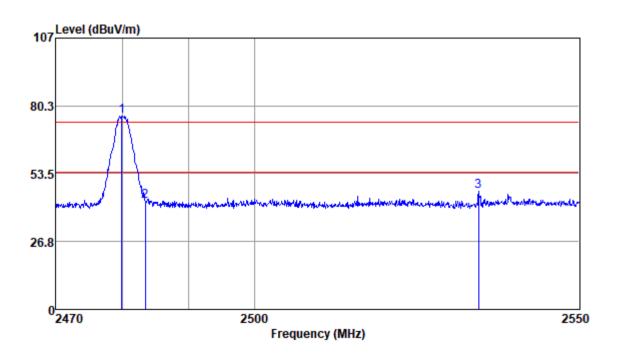
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Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 2479.94 | 79.45 | 29.10 | 2.88 | 35.25 | 76.18 | 74.00 | 2.18 | Peak |
| 2483.50 | 45.92 | 29.11 | 2.88 | 35.26 | 42.65 | 74.00 | -31.35 | Peak |
| 2534.36 | 49.81 | 29.33 | 2.92 | 35.31 | 46.75 | 74.00 | -27.25 | Peak |

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



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

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

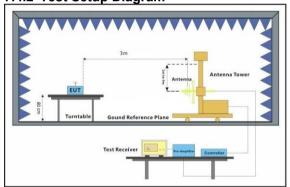
7.4.1 E.U.T. Operation

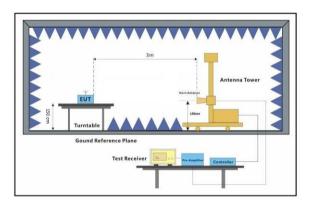
Operating Environment:

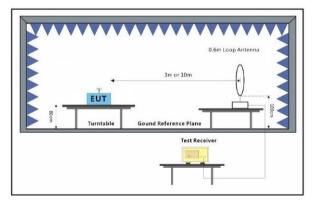
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram









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7.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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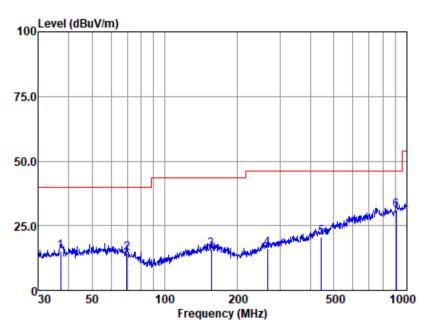


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30MHz-1GHz:

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :7213CR

| | | Read | Antenna | Cable | Preamp | Emissio | n Limit | 0ver | |
|---|---------|-------|---------|-------|--------|---------|---------|--------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 37.155 | 33.35 | 12.76 | 0.84 | 31.93 | 15.02 | 40.00 | -24.98 | QP |
| 2 | 69.845 | 32.09 | 11.73 | 1.21 | 30.80 | 14.23 | 40.00 | -25.77 | QP |
| 3 | 155.910 | 32.26 | 13.08 | 1.90 | 31.27 | 15.97 | 43.50 | -27.53 | QP |
| 4 | 265.676 | 32.33 | 12.33 | 2.67 | 31.15 | 16.18 | 46.00 | -29.82 | QP |
| 5 | 444.851 | 31.62 | 16.79 | 3.31 | 31.15 | 20.57 | 46.00 | -25.43 | QP |
| 6 | 906.482 | 34.72 | 23.48 | 4.81 | 32.11 | 30.90 | 46.00 | -15.10 | OP |

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



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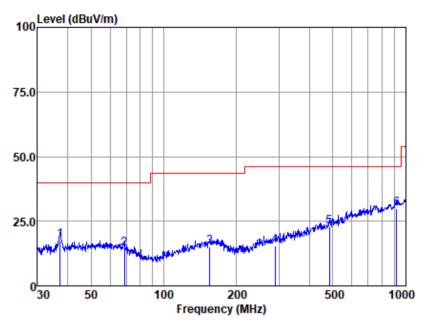
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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :7213CR

| | | Read | Antenna | Cable | Preamp | Emission | n Limit | 0ver | |
|---|---------|-------|---------|-------|--------|----------|---------|--------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 37.285 | 36.01 | 12.78 | 0.84 | 31.93 | 17.70 | 40.00 | -22.30 | QP |
| 2 | 68.631 | 32.84 | 11.89 | 1.20 | 31.43 | 14.50 | 40.00 | -25.50 | QP |
| 3 | 154.821 | 31.58 | 13.05 | 1.89 | 31.30 | 15.22 | 43.50 | -28.28 | QP |
| 4 | 287.990 | 31.11 | 13.01 | 2.78 | 31.30 | 15.60 | 46.00 | -30.40 | QP |
| 5 | 483.910 | 32.40 | 17.38 | 3.48 | 30.55 | 22.71 | 46.00 | -23.29 | QP |
| 6 | 919.287 | 33.10 | 23.64 | 4.85 | 31.78 | 29.81 | 46.00 | -16.19 | QP |

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



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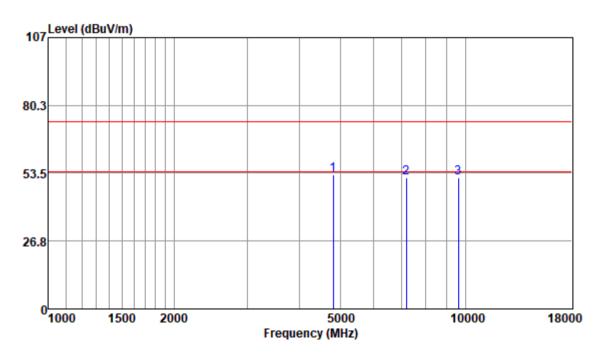
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Above 1GHz: 2403MHz:



Antenna Polarity : HORIZONTAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4806.00 | 51.60 | 33.72 | 4.46 | 36.79 | 52.99 | 74.00 | -21.01 | Peak |
| 7209.00 | 45.18 | 36.28 | 5.72 | 35.53 | 51.65 | 74.00 | -22.35 | Peak |
| 9612.00 | 41.23 | 37.70 | 6.53 | 33.58 | 51.88 | 74.00 | -22.12 | Peak |

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



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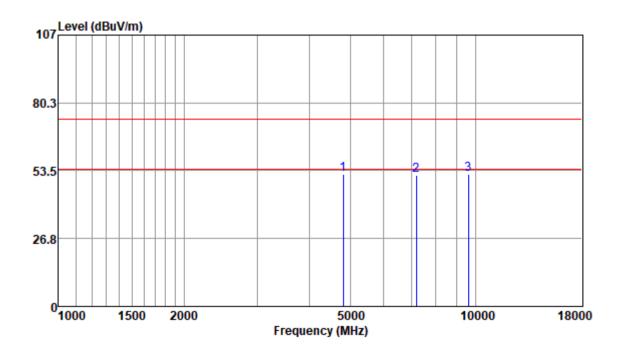
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Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4806.00 | 50.87 | 33.72 | 4.46 | 36.79 | 52.26 | 74.00 | -21.74 | Peak |
| 7209.00 | 45.15 | 36.28 | 5.72 | 35.53 | 51.62 | 74.00 | -22.38 | Peak |
| 9612.00 | 41.34 | 37.70 | 6.53 | 33.58 | 51.99 | 74.00 | -22.01 | Peak |

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



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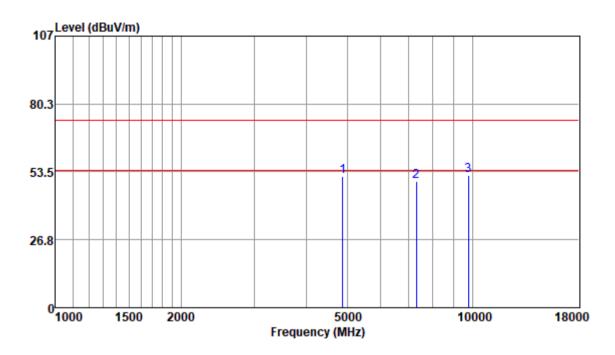
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2442MHz:



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4884.00 | 50.28 | 33.95 | 4.47 | 36.81 | 51.89 | 74.00 | -22.11 | Peak |
| 7326.00 | 42.99 | 36.47 | 5.85 | 35.42 | 49.89 | 74.00 | -24.11 | Peak |
| 9768.00 | 41.66 | 37.61 | 6.50 | 33.49 | 52.28 | 74.00 | -21.72 | Peak |

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



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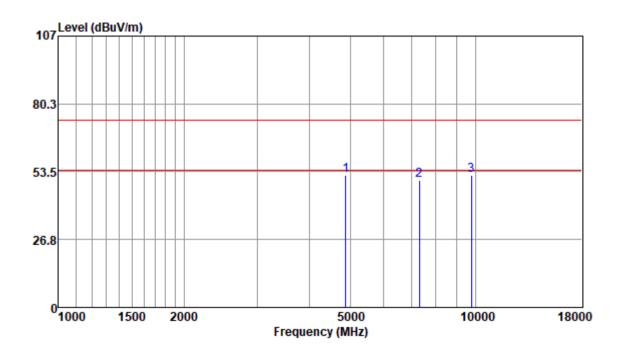
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Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4884.00 | 50.37 | 33.95 | 4.47 | 36.81 | 51.98 | 74.00 | -22.02 | Peak |
| 7326.00 | 43.05 | 36.47 | 5.85 | 35.42 | 49.95 | 74.00 | -24.05 | Peak |
| 9768.00 | 41.60 | 37.61 | 6.50 | 33.49 | 52.22 | 74.00 | -21.78 | Peak |

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



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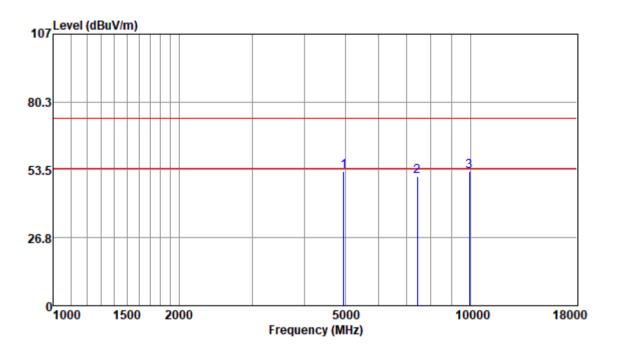
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2480MHz:



Antenna Polarity : HORIZONTAL

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|---------|-------|---------|-------|--------|----------|--------|--------|--------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4960.00 | 51.26 | 33.98 | 4.48 | 36.83 | 52.89 | 74.00 | -21.11 | Peak |
| 7440.00 | 44.03 | 36.40 | 5.97 | 35.34 | 51.06 | 74.00 | -22.94 | Peak |
| 9920.00 | 42.01 | 37.81 | 6.47 | 33.41 | 52.88 | 74.00 | -21.12 | Peak |

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



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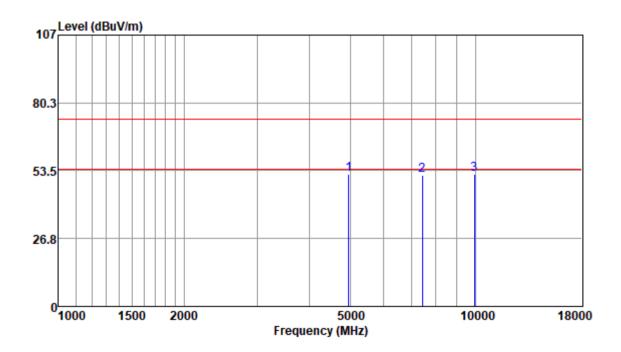
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Antenna Polarity : VERTICAL

| Freq | | | | | Emission Level | | | Remark |
|---------|-------|-------|------|-------|-------------------|--------|--------|--------|
| MHz | dBuv | dB/m | dB | dB | dBuv/m | dBuv/m | dB | |
| 4960.00 | 50.35 | 33.98 | 4.48 | 36.83 | 51.98 | 74.00 | -22.02 | Peak |
| 7440.00 | 44.86 | 36.40 | 5.97 | 35.34 | 51.89 | 74.00 | -22.11 | Peak |
| 9920.00 | 41.37 | 37.81 | 6.47 | 33.41 | 52.24 | 74.00 | -21.76 | Peak |

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



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7.5 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

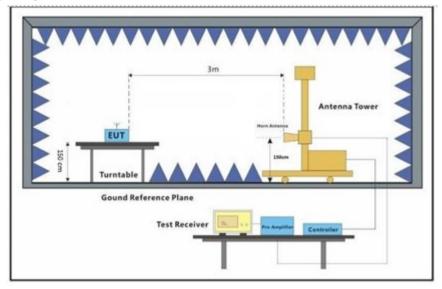
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

- 1.Set the spectrum analyzer: Span = approximately 2 to 3 times the 20dB bandwidth, centred on the hopping channel;
- 2.Set the spectrum analyzer: RBW = 1% of the span (set 30kHz). VBW >= RBW. Sweep = auto; Detector Function = Peak. Trace = Max Hold.
- 3.Mark the peak frequency and using the 99% OBW function measure the bandwidth.



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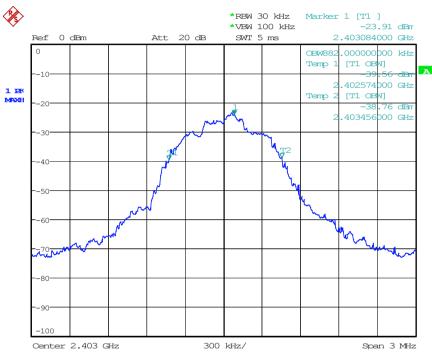
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| Frequency (MHz) | Bandwidth (MHz) | Result | |
|--------------------|-----------------|--------|--|
| 2403 | 0.882 | PASS | |
| 2442 | 0.882 | PASS | |
| 2480 | 0.864 | PASS | |

Test plot as follows:

Channel: 2403MHz



Date: 1.AUG.2021 10:06:26



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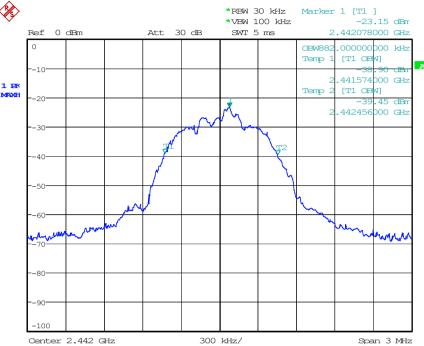
邮编: 201612



Report No.: SHEM210700721301

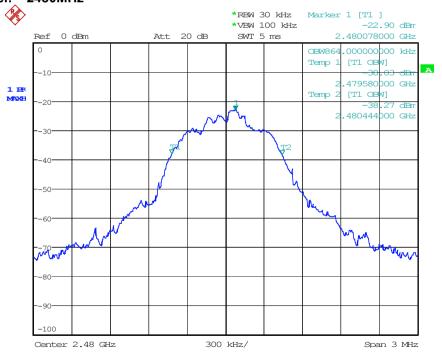
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Channel: 2442MHz



Date: 1.AUG.2021 10:13:04

Channel: 2480MHz



Date: 1.AUG.2021 10:15:53



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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