

CTC Laboratories, Inc.

TEST REPORT

| Report No: | CTC2024240510 | | |
|---------------------------------|--|---------------------------------|--|
| FCC ID: | WNA-HPR3A-W5 | | |
| Applicant: | Shenzhen Skyworth Digital Technology Co.,LTD. | | |
| Address: | 14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China | | |
| Manufacturer | Shenzhen Skyworth Digital Techno | ology Co.,LTD. | |
| Address: | 14/F Unit A. Skyworth Building, Ga District, Shenzhen, China | aoxin Ave.1s., Nanshan | |
| Product Name: | TBD, SET TOP BOX | | |
| Trade Mark: | SKYWORTH, STRONG, QVWI, N | ext | |
| Model/Type reference: | HPR3A | | |
| Listed Model(s): | HPR311 | | |
| Standard: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 | | |
| Test Report Form No | CTC-TR-059_A1 | | |
| Master TRF | Dated 2024-09-20 | | |
| Date of receipt of test sample: | Oct. 18, 2024 | | |
| Date of testing | Oct. 21, 2024 ~ Oct. 30, 2024 | | |
| Date of issue | Dec. 06, 2024 | | |
| Result | PASS | | |
| Compiled by: | | 1. mail ann | |
| (Printed name+signature) | Lucy Lan | luey lan Zric Zhang Jahas | |
| Supervised by: | | Zic zhana | |
| (Printed name+signature) | Eric Zhang | | |
| Approved by: | | Jemas | |
| (Printed name+signature) | Totti Zhao | /* | |

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Table of Contents

Page

| 1. | TEST | SUMMARY | 3 |
|----|------|--|----|
| 1. | .1. | Test Standards | 3 |
| 1. | .2. | REPORT VERSION | 3 |
| 1. | .3. | TEST DESCRIPTION | 3 |
| 1. | .4. | TEST FACILITY | 4 |
| 1. | .5. | MEASUREMENT UNCERTAINTY | 5 |
| 1. | .6. | Environmental Conditions | 5 |
| 2. | GEN | ERAL INFORMATION | 6 |
| 2. | .1. | CLIENT INFORMATION | 6 |
| 2. | .2. | GENERAL DESCRIPTION OF EUT | 6 |
| 2. | .3. | ACCESSORY EQUIPMENT INFORMATION | |
| 2. | .4. | OPERATION STATE | 9 |
| 2. | .5. | Measurement Instruments List | 10 |
| 3. | TEST | ITEM AND RESULTS | 11 |
| 3. | .1. | CONDUCTED EMISSION | 11 |
| 3. | .2. | RADIATED EMISSION | |
| 3. | .3. | BAND EDGE EMISSIONS (RADIATED) | 36 |
| 3. | .4. | BAND EDGE AND SPURIOUS EMISSIONS (CONDUCTED) | |
| 3. | .5. | 20dB Bandwidth | 64 |
| 3. | .6. | CHANNEL SEPARATION | 71 |
| 3. | .7. | NUMBER OF HOPPING CHANNEL | |
| 3. | .8. | Dwell Time | 75 |
| 3. | .9. | PEAK OUTPUT POWER | |
| 3. | .10. | DUTY CYCLE | |
| 3. | .11. | ANTENNA REQUIREMENT | 91 |



1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

<u>ANSI C63.10-2013</u>: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

| Revised No. | Report No. | Date of issue | Description |
|-------------|---------------|---------------|-------------|
| 01 | CTC2024240510 | Dec. 06, 2024 | Original |
| | | | |
| | | | |

1.3. Test Description

| FCC Part 15 Subpart C (15.247) | | | |
|---|-----------------------------|--------|------------------|
| Test Item | Standard Section | Result | Test Engineer |
| Antenna Requirement | 15.203 | Pass | Alicia Liu |
| Conducted Emission | 15.207 | Pass | Alicia Liu |
| Restricted Bands | 15.205 | Pass | Alicia Liu |
| Hopping Channel Separation | 15.247(a)(1) | Pass | Alicia Liu |
| Dwell Time | 15.247(a)(iii) | Pass | Alicia Liu |
| Peak Output Power | 15.247(b)(1) | Pass | Alicia Liu |
| Number of Hopping Frequency | 15.247(a)(iii) | Pass | Alicia Liu |
| Conducted Band Edge and Spurious Emissions | 15.247(d) | Pass | Alicia Liu |
| Radiated Band Edge and Spurious Emissions | 15.205&15.209& 15.247(d) | Pass | Alicia Liu |
| Radiated Spurious Emission | 15.247(d) &15.209 | Pass | Alicia Liu |
| 20dB Bandwidth | 15.247(a) | Pass | Alicia Liu |

Note:

1. The measurement uncertainty is not included in the test result.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 101 of Building B, Room 107, 108, 207, 208 of Building A, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

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1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties radio equipment characteristics; Part 2" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

| Test Items | Measurement Uncertainty | Notes |
|---------------------------------|---|-------|
| 20dB Emission Bandwidth | ±0.0196% | (1) |
| Carrier Frequency Separation | ±1.9% | (1) |
| Number of Hopping Channel | ±1.9% | (1) |
| Time of Occupancy | ±0.028% | (1) |
| Max Peak Conducted Output Power | ±0.743 dB | (1) |
| Band-edge Spurious Emission | ±1.328 dB | (1) |
| Conducted RF Spurious Emission | 9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB | (1) |
| Conducted Emissions 9kHz~30MHz | ±3.08 dB | (1) |
| Radiated Emissions 30~1000MHz | ±4.51 dB | (1) |
| Radiated Emissions 1~18GHz | ±5.84 dB | (1) |
| Radiated Emissions 18~40GHz | ±6.12 dB | (1) |

Below is the best measurement capability for CTC Laboratories, Inc.

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15 °C to 35 °C |
|--------------------|----------------|
| Relative Humidity: | 20 % to 75 % |
| Air Pressure: | 101 kPa |

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2. GENERAL INFORMATION

2.1. Client Information

| Applicant: | Shenzhen Skyworth Digital Technology Co.,LTD. |
|---------------|---|
| Address: | 14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China |
| Manufacturer: | Shenzhen Skyworth Digital Technology Co.,LTD. |
| Address: | 14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China |
| Factory: | Shenzhen Skyworth Digital Technology Co., LTD. Baoan Factory |
| Address: | 2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China. |

2.2. General Description of EUT

| Product Name: | TBD, SET TOP BOX |
|-----------------------|--|
| Trade Mark: | SKYWORTH, STRONG, QVWI, Next |
| Model/Type reference: | HPR3A |
| Listed Model(s): | HPR311 |
| Model Difference: | Only the models name is different |
| Sample ID: | CTC241012-002-S001 |
| Power Supply: | DC12V 1A from AC/DC Adapter |
| Adapter Model 1 | YS-SKY120100U00P ^{Note1} Input: 100-240V~ 50/60Hz 0.5A Output: 12Vdc/1A 12.0W |
| Adapter Model 2 | RJ-SKY120100U60S ^{Note2} Input: 100-240V~ 50/60Hz 0.5A Output: 12Vdc/1A 12.0W |
| Adapter Model 3 | BS12A-1201000US Input: 100-240V~ 50/60Hz 0.4A Output: 12Vdc/1A 12.0W |
| Hardware version: | / |
| Software version: | / |

Note:

1. YS-SKY120100U0XP, (where X represents for marketing purpose with no safety impact, it can be 0-9)

2. RJ-SKY120100UXXS (XX=00-99, stands for customer code)

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| Bluetooth 5.0 / BR+EDR | |
|------------------------|-------------------------|
| Modulation: | GFSK, π/4-DQPSK, 8-DPSK |
| Operation Frequency: | 2402MHz~2480MHz |
| Channel Number: | 79 |
| Channel Separation: | 1MHz |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 1.87 dBi |



2.3. Accessory Equipment Information

| Equipment Information | | | | |
|---------------------------|----------------|--------------|--------------|--|
| Name | Model | S/N | Manufacturer | |
| Notebook | ThinkPad T460s | / | Lenovo | |
| Cable Information | | | | |
| Name | Shielded Type | Ferrite Core | Length | |
| LAN Cable | Unshielded | NO | 150cm | |
| Test Software Information | | | | |
| Name | Version | / | / | |
| SecureCRT | 1 | / | 1 | |

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2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 00 | 2402 |
| 01 | 2403 |
| : | : |
| 38 | 2440 |
| 39 | 2441 |
| 40 | 2442 |
| : | : |
| 77 | 2479 |
| 78 | 2480 |

Note: The display in grey were the channel selected for testing.

Test Mode:

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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2.5. Measurement Instruments List

| | RF Test System - SRD | | | | | |
|------|---|--------------|-----------|--------------|------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Calibrated Until | |
| 1 | MXA Signal Analyzer | Keysight | N9020A | MY46471737 | Dec. 12, 2024 | |
| 2 | MXG Vector Signal Generator | Agilent | N5182A | MY47420864 | Dec. 12, 2024 | |
| 3 | PSG Analog Signal Generator | Agilent | E8257D | MY46521908 | Dec. 12, 2024 | |
| 4 | USB Wideband Power Sensor | Keysight | U2021XA | MY55130004 | Mar. 15, 2025 | |
| 5 | USB Wideband Power Sensor | Keysight | U2021XA | MY55130006 | Mar. 15, 2025 | |
| 6 | High and low temperature test chamber | ESPEC | MT3035 | / | Mar. 25, 2025 | |
| 7 | Test Software | Tonscend | JS1120-3 | V2.6.88.0346 | / | |

| | | Radia | ited emission | | |
|------|---------------------------------|--------------|------------------------|------------|------------------|
| Item | Test Equipment | Manufacturer | Manufacturer Model No. | | Calibrated Until |
| 1 | Trilog-Broadband Antenna | Schwarzbeck | VULB 9163 | 01026 | Dec. 18, 2024 |
| 2 | Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-647 | Sep. 25, 2025 |
| 3 | Test Receiver | Keysight | N9038A | MY56400071 | Dec. 12, 2024 |
| 4 | Broadband Amplifier | SCHWARZBECK | BBV9743B | 259 | Dec. 12, 2024 |
| 5 | Mirowave Broadband Amplifier | SCHWARZBECK | BBV9718C | 111 | Dec. 12, 2024 |
| 6 | 3m chamber 3 | YIHENG | EE106 | / | Aug. 28, 2026 |
| 7 | Test Software | FARA | EZ-EMC | FA-03A2 | / |

| | Conducted emission | | | | | | | | | |
|------|--------------------|--------------|-----------|----------------|------------------|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Calibrated until | | | | | |
| 1 | LISN | R&S | ENV216 | 101112 | Dec. 12, 2024 | | | | | |
| 2 | LISN | R&S | ENV216 | 101113 | Dec. 12, 2024 | | | | | |
| 3 | EMI Test Receiver | R&S | ESCS30 | 100353 | Dec. 12, 2024 | | | | | |
| 4 | ISN CAT6 | Schwarzbeck | NTFM 8158 | CAT6-8158-0046 | Dec. 12, 2024 | | | | | |
| 5 | ISN CAT5 | Schwarzbeck | NTFM 8158 | CAT5-8158-0046 | Dec. 12, 2024 | | | | | |
| 6 | Test Software | R&S | EMC32 | 6.10.10 | / | | | | | |

Note: 1. The Cal. Interval was one year.

- 2. The Cal. Interval was three years of the antenna.
- 3. The cable loss has been calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

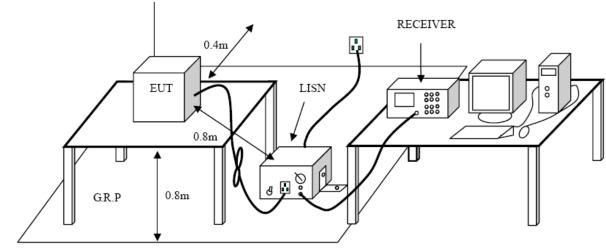
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| | Conducte | ed Limit (dBμV) |
|-----------------|------------|-----------------|
| Frequency (MHz) | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46 * |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.

2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.

3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment. 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

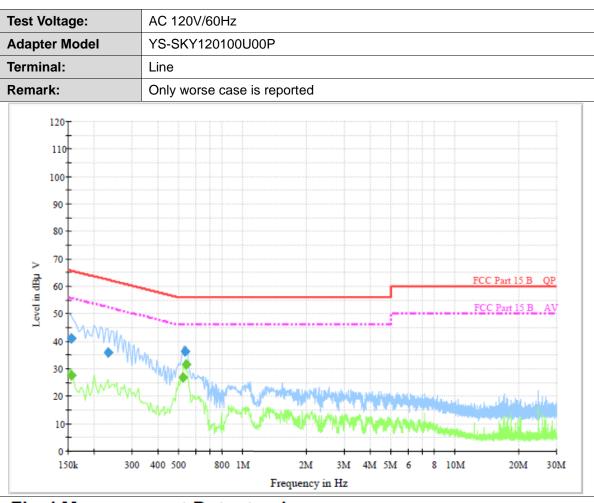
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

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Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|--------------------|----------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| 0.154500 | 41.1 | 1000.00 | 9.000 | On | L1 | 9.5 | 24.7 | 65.8 | |
| 0.231000 | 36.0 | 1000.00 | 9.000 | On | L1 | 9.5 | 26.4 | 62.4 | |
| 0.532500 | 36.3 | 1000.00 | 9.000 | On | L1 | 9.5 | 19.7 | 56.0 | |

Final Measurement Detector 2

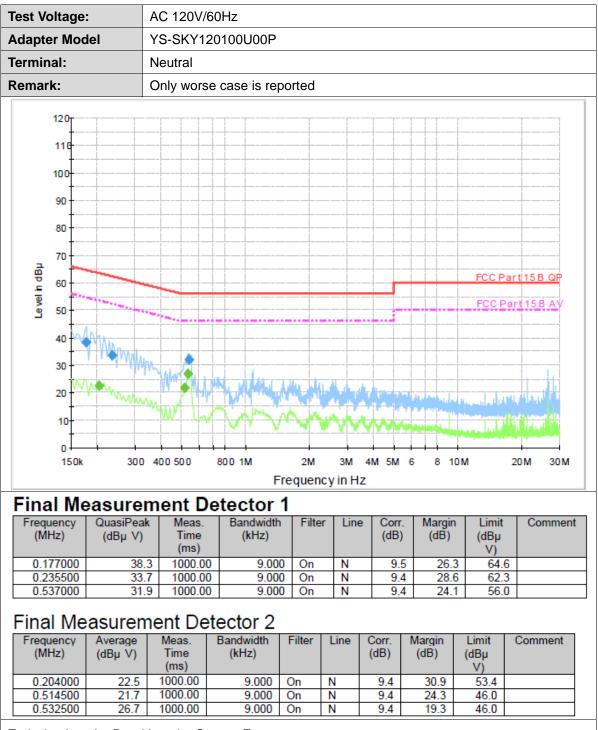
| Frequency (MHz) | Average (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|--------------------|--------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| 0.154500 | 27.8 | 1000.00 | 9.000 | On | L1 | 9.5 | 28.0 | 55.8 | |
| 0.519000 | 26.9 | 1000.00 | 9.000 | On | L1 | 9.5 | 19.1 | 46.0 | |
| 0.537000 | 31.4 | 1000.00 | 9.000 | On | L1 | 9.5 | 14.6 | 46.0 | |

Emission Level = Read Level + Correct Factor

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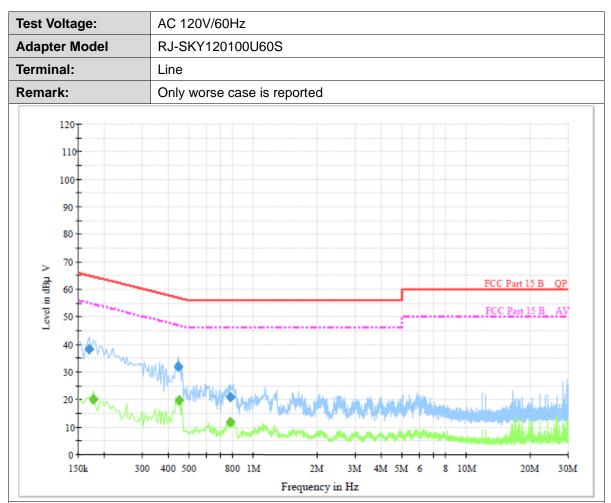




Emission Level = Read Level + Correct Factor

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Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|--------------------|----------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| 0.168000 | 38.3 | 1000.00 | 9.000 | On | L1 | 9.5 | 26.8 | 65.1 | |
| 0.442500 | 31.9 | 1000.00 | 9.000 | On | L1 | 9.5 | 25.1 | 57.0 | |
| 0.780000 | 21.1 | 1000.00 | 9.000 | On | L1 | 9.5 | 34.9 | 56.0 | |

Final Measurement Detector 2

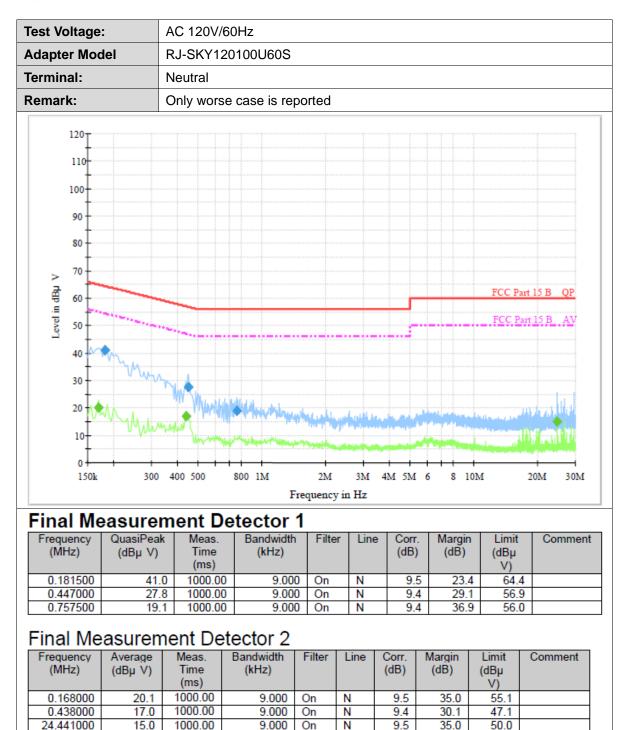
| Average | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|---------|-------------------------|--|--|--|--|---|---|---|
| (dBµV) | Time | (kHz) | | | (dB) | (dB) | (dBµ | |
| | (ms) | | | | | | V) | |
| 20.2 | 1000.00 | 9.000 | On | L1 | 9.5 | 34.4 | 54.6 | |
| 19.8 | 1000.00 | 9.000 | On | L1 | 9.5 | 27.1 | 46.9 | |
| 11.8 | 1000.00 | 9.000 | On | L1 | 9.5 | 34.2 | 46.0 | |
| | (dBµ V) 20.2 19.8 | (dBµ V) Time (ms) 20.2 1000.00 19.8 1000.00 | (dBμ V) Time (ms) (kHz) 20.2 1000.00 9.000 19.8 1000.00 9.000 | (dBμ V) Time (ms) (kHz) 20.2 1000.00 9.000 On 19.8 1000.00 9.000 On | (dBμ V) Time (ms) (kHz) Image: Comparison of the state of th | (dBμ V) Time (ms) (kHz) (dB) 20.2 1000.00 9.000 On L1 9.5 19.8 1000.00 9.000 On L1 9.5 | (dBμ V) Time (ms) (kHz) (dB) (dB) (dB) 20.2 1000.00 9.000 On L1 9.5 34.4 19.8 1000.00 9.000 On L1 9.5 27.1 | (dBμ V) Time (ms) (kHz) (dB) (dB) |

Emission Level = Read Level + Correct Factor

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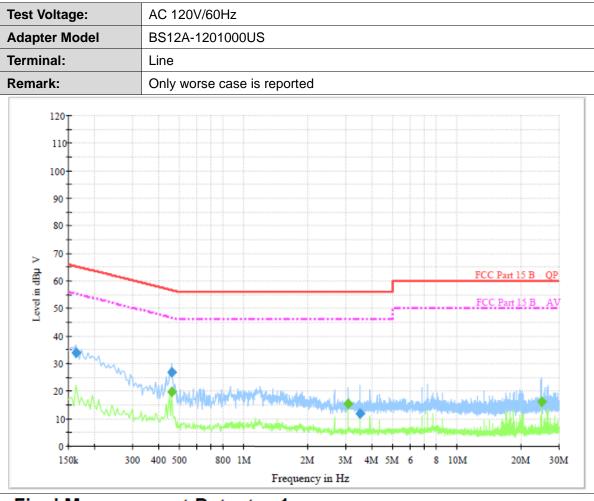




Emission Level = Read Level + Correct Factor

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Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|--------------------|----------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| 0.163500 | 33.8 | 1000.00 | 9.000 | On | L1 | 9.5 | 31.5 | 65.3 | |
| 0.460500 | 27.0 | 1000.00 | 9.000 | On | L1 | 9.5 | 29.7 | 56.7 | |
| 3.489000 | 11.9 | 1000.00 | 9.000 | On | L1 | 9.5 | 44.1 | 56.0 | |

Final Measurement Detector 2

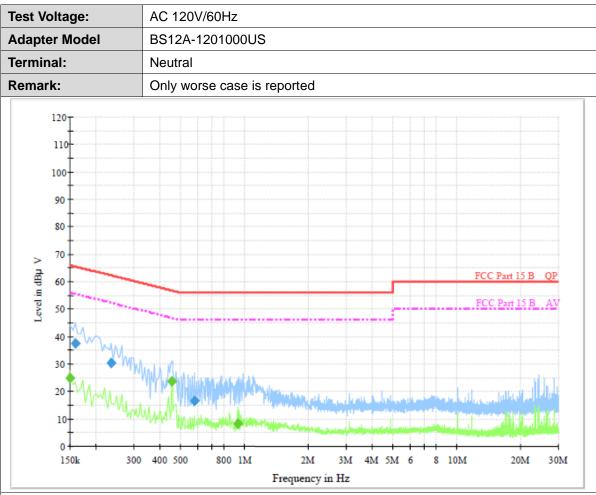
| | Frequency (MHz) | Average (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|---|--------------------|--------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| [| 0.460500 | 19.8 | 1000.00 | 9.000 | On | L1 | 9.5 | 26.9 | 46.7 | |
| ĺ | 3.075000 | 15.2 | 1000.00 | 9.000 | On | L1 | 9.5 | 30.8 | 46.0 | |
| [| 24.954000 | 16.3 | 1000.00 | 9.000 | On | L1 | 9.7 | 33.7 | 50.0 | |

Emission Level = Read Level + Correct Factor

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Final Measurement Detector 1

| Frequency (MHz) | QuasiPeak (dBµ V) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµ V) | Comment |
|--------------------|----------------------|-----------------------|--------------------|--------|------|---------------|----------------|---------------------|---------|
| 0.159000 | 37.6 | 1000.00 | 9.000 | On | Ν | 9.5 | 27.9 | 65.5 | |
| 0.235500 | 30.6 | 1000.00 | 9.000 | On | N | 9.4 | 31.7 | 62.3 | |
| 0.577500 | 16.5 | 1000.00 | 9.000 | On | Ν | 9.4 | 39.5 | 56.0 | |

Final Measurement Detector 2

| Frequency | Average | Meas. | Bandwidth | Filter | Line | Corr. | Margin | Limit | Comment |
|-----------|---------|---------|-----------|--------|------|-------|--------|-------|---------|
| (MHz) | (dBµV) | Time | (kHz) | | | (dB) | (dB) | (dBµ | |
| | | (ms) | | | | | | V) | |
| 0.150000 | 25.0 | 1000.00 | 9.000 | On | N | 9.5 | 31.0 | 56.0 | |
| 0.451500 | 23.6 | 1000.00 | 9.000 | On | N | 9.4 | 23.2 | 46.8 | |
| 0.924000 | 8.2 | 1000.00 | 9.000 | On | Ν | 9.4 | 37.8 | 46.0 | |

Emission Level = Read Level + Correct Factor

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3.2. Radiated Emission

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209

| Frequency | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (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 |
| 960~1000 | 500 | 3 |

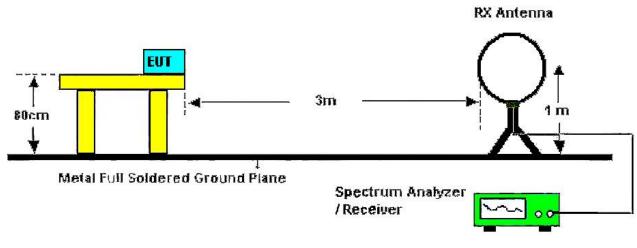
| | dBµV/m | (at 3 meters) |
|-----------------------|--------|---------------|
| Frequency Range (MHz) | Peak | Average |
| Above 1000 | 74 | 54 |

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level ($dB\mu V/m$)=20log Emission Level ($\mu V/m$).

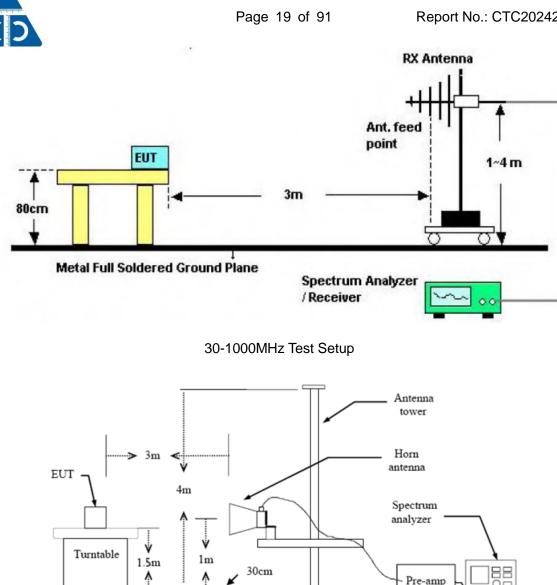
Test Configuration



Below 30MHz Test Setup

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Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013.

The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for 2. above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.

3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.

For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna 4. tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.

Set to the maximum power setting and enable the EUT transmit continuously. 5.

Use the following spectrum analyzer settings 6.

Span shall wide enough to fully capture the emission being measured; (1)

(2) 9k – 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold (3) 0.15M – 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold (4) 30M - 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold

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If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the guasi-peak detector and reported.

(5) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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| An | t. Pol. | | | Н | oriz | ont | al | | | | | | | | | |
|------|------------|---------------------------------|------------|------|------|---------|---------------|------------------|-----|-----------------|-------------|-------------|---------------|----------|-------------|---|
| Ad | apter | Model | | Y | S-S | KY | 12010 | 0000P | | | | | | | | |
| Tes | st Moc | le: | | T | X G | FS | K Moo | de 2402MHz | | | | | | | | |
| Re | mark: | | | 0 | nly | wo | rse ca | se is reporte | d. | | | | | | | |
| 90.0 | dBu\ | //m | | | | | | | | | Î | ĺ | ĺ | | | |
| 80 | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | F | CC Part15 | Class B 3 | 3M Radiatio | DN | | |
| 50 | | | | | | | | | - | м | argin -6 d | B | | | | |
| 40 | <u> </u> | | | | | | | | - | | | | | | 5 × 6 | |
| 30 | | | | | | | | | | | | | * | | × | |
| 20 | | | INIAMA. | | | | | 2 | 4/1 | | b lynn wert | S.A. 4 | | a market | - Jungt and | |
| 10 | Jun Market | water at the state of the state | linite J.M | (MM) | 4MA | Mus | w. W. W. W. | work water | M | Manterstan | Al Mart | V. marrie | | | | |
| 0 | ļ | | | | | . 14. 1 | <u> </u> | | _ | | | | | | | |
| -10 | 0.000 | | | | | | | | | | | | | | 1000.0 | |
| 3 | 0.000 | | 60 | 0.00 | _ | | | (MHz) | | 300 |).00 | | | | 1000.0 | |
| 1 | No. | Freq (M | uen Hz) | су | | | ading 8u∨) | Factor (dB/m) | | Level BuV/m) | | mit V/m) | Margi (dB) | | Detector | |
| | 1 | 57.3 | 3923 | 3 | | 36 | .82 | -18.62 | | 18.20 | 40 | .00 | -21.8 | 0 | QP | Ť |
| | 2 | 171. | 392 | 6 | | 40 | .37 | -19.37 | | 21.00 | 43 | .50 | -22.5 | 0 | QP | |
| | 3 | 392. | 095 | 1 | | 35 | .53 | -15.27 | | 20.26 | 46 | .00 | -25.7 | 4 | QP | |
| | 4 | 588. | 905 | 1 | | 36 | .59 | -9.76 | | 26.83 | 46 | .00 | -19.1 | 7 | QP | T |

6

5 *

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

-5.55

-3.32

35.51

32.10

46.00

54.00

-10.49

-21.90

QP

QP

41.06

35.42

2.Margin value = Level -Limit value

836.2443

986.0717

CTC Laboratories, Inc.





| Ant. Pol | • | Ve | ertical | | | | | | |
|---------------------------------|-----------------|-----------------|---|---|---------------------------|-------------------------|-------------------------------|----------------------|-----------------|
| Adapter | Model | Y | S-SK | Y12010 | 0U00P | | | | |
| Fest Mo | de: | Т | K GFS | SK Mod | e 2402MHz | | | | |
| Remark: | : | 0 | nly wo | orse cas | se is reported | l. | | | |
| 30.0 dBu | V/m | | | | | | | | |
| 30 | | | | | | | | | |
| 70 | | | | | | | | | |
| 50 | | | | | | F | CC Part15 Class B | 3M Radiation | |
| 50 | | | | | | M | argin -6 dB | | |
| | | | | | | | | | |
| 10 | | | | | | | | | |
| | 1 | w | | | | | | 5 | 6 |
| 30 | | h. | W. Human | | Why is the | Δ | | 5 | 6 |
| 20 | | h uyyi | W WINNING AND | AND | W Walnut | Marrian man | a walking all for and go half | 5 Juniter Mary | 6 |
| 30 | | 444 4 11 | W. Managara | A A A A A A A A A A A A A A A A A A A | W Walking W | Martin man | nertherade the | 5 Julion Wandhar | E Manager |
| 20 | | 1 | WWWWWWWWW | A A A A A A A A A A A A A A A A A A A | White | Martin Martin | Nerthangen and a hale | 5 Juniten Marinen | E Management |
| | | 60.00 | N. M. | | (MHz) | | 0.00 | 5 hallow | 5 |
| | | | Rea | | Warner | | | | 1000.00 |
| | Frequer (MHz | псу | | ading BuV) | (MHz) | 30 Level | 0.00 | Margin | 1000.00 |
| | Frequer | ncy) | (dl | ading | (MHz) Factor | 30 Level | 0.00 Limit | Margin | 1000.00 |
| 30 20 10 30.000 NO. | Frequer (MHz | ncy))7 | (dl 48 | ading BuV) | (MHz) Factor (dB/m) | 30 Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | 1000.00 |

4

5

6

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

-19.57

-9.69

-3.38

21.98

28.30

30.88

43.50

46.00

54.00

-21.52

-17.70

-23.12

QP

QP

QP

41.55

37.99

34.26

2.Margin value = Level -Limit value

174.4241

590.9737

982.6200

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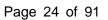
| Ant | . Pol. | | | Horiz | onta | al | | | | | | | |
|-----------|------------|-------|----------------|-------|----------|----------------|---|------------------|-------------|--------------------|-----------------|-----------|---------|
| Ada | apter l | Model | | RJ-S | KY1 | 20100 | 0U60S | | | | | | |
| Test | t Mod | le: | | TX G | FSk | K Mode | e 2402MHz | | | | | | |
| Ren | nark: | | | Only | wor | se cas | e is reported. | | | | | | |
| 90.0 F | dBuV | '/m | | | | | | | | | | | |
| BO | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | 3M Radiatio | DN | |
| 50 40 | | | | | | | | | Margin -6 d | B | | | |
| 30 | | | | | | | 2 | | | | | | |
| 20 | | Jul | Aliantia, and | Alu. | | | \longrightarrow | hymneyyyyne | 5 (() | e Martin Martin | 6 In Am Waln | knot many | mulence |
| 10 | and hunder | | . վ. այս դերգե | Wyn | Ministra | ner mander der | un an an an and a start a start a start a start a start a start | ~ Aunth And A | Wynyfall Pm | | | | |
| 0 | | | | | | | | | | | | | |
| -10 30 | .000 | | 60.00 |) | | | (MHz) | : | 300.00 | | | | 1000.00 |
| N | lo. | | uency Hz) | F | | ding uV) | Factor (dB/m) | Level (dBuV/m | | mit ıV/m) | Marg (dB) | | etector |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|
| 1 | 51.3005 | 36.78 | -18.04 | 18.74 | 40.00 | -21.26 | QP |
| 2 * | 183.2005 | 50.46 | -20.13 | 30.33 | 43.50 | -13.17 | QP |
| 3 | 291.0358 | 34.20 | -17.83 | 16.37 | 46.00 | -29.63 | QP |
| 4 | 400.4318 | 38.72 | -15.07 | 23.65 | 46.00 | -22.35 | QP |
| 5 | 483.9094 | 32.51 | -12.51 | 20.00 | 46.00 | -26.00 | QP |
| 6 | 590.9737 | 31.32 | -9.69 | 21.63 | 46.00 | -24.37 | QP |
| | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| Ant | . Pol. | | | Ve | ertica | ıl | | | | | | |
|----------|--------|------------|--------------|----------|--------|--------------|------|------------------|-------------------|-------------------|---------------------------|----------|
| Ada | pter | Model | | R | J-SK | Y120 | 100 | U60S | | | | |
| Tes | t Mod | le: | | ТΣ | (GF | SK N | lode | e 2402MHz | | | | |
| Ren | nark: | | | Or | nly w | orse | cas | e is reported | | | | |
| 90.0 | dBu¥ | //m | | | | | | | | | | |
| 80 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 60 | | | | | | | | | | CC Part15 Class B | 3M Radiation | |
| 50 | | | | | | | | | , , | largin -6 dB | | |
| 40 | | | | | | | | | | | | |
| 30 | | | Manaka | | | | | 3 14 | | | 6 | |
| 20 | | MANN | - 197 | runii in | 4h. | | | 1 Mr. war | V u. | 5 | and and the off | Annana |
| 10 | WWWWWW | din adin | | | | WMM March | han | May w | Werning working | a manus pris | of the work of the second | |
| | Mu | | | | | | × · | | 60° | | | |
| 0 -10 | | | | | | | | | | | | |
| | .000 | | 60 | .00 | | | | (MHz) | 30 | 0.00 | | 1000.00 |
| N | lo. | Freq (M | uenc IHz) | ÿ | | eadin BuV | | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | * | 52.2 | 2079 | | 5 | 0.52 | 2 | -18.13 | 32.39 | 40.00 | -7.61 | QP |

2

3

4

5

6

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

-20.25

-18.86

-20.09

-16.23

-9.69

30.00

27.06

26.74

19.00

27.27

40.00

43.50

43.50

46.00

46.00

-10.00

-16.44

-16.76

-27.00

-18.73

QP

QP

QP

QP

QP

50.25

45.92

46.83

35.23

36.96

2.Margin value = Level -Limit value

69.1141

141.8262

182.5592

350.4768

590.9737

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| Δn | t. Pol. | | Hor | rizonta | al | | | | | |
|------|---------|-------------------|-----|----------|-------------|-----------------------|-------------------|-----------------------|----------------|----------|
| | | Model | | | 20100 | 0US | | | | |
| | st Mod | | | | | e 2402MHz | | | | |
| Re | mark: | | Onl | y wor | rse cas | e is reported. | | | | |
| 90.0 |) dBu | //m | | - | | • | 1 | | 1 1 | |
| 80 | | | | | | | | | | |
| 70 | | | | _ | | | | | | |
| 60 | | | | | | | FI | CC Part15 Class B 3 | M Radiation | |
| 50 | | | | | | | м | argin -6 dB | | |
| 40 | | | | <u> </u> | | | | 4 | | |
| 30 | | | | | | | | 3 × 5 | | E E |
| 20 | | 1 | 41. | 2 | | . And | Ma MM we with. | And which | multimult | humher |
| 10 | - March | | | Mymy | http:// | wither when the state | - Artha W | la kirVAMushi. Avi uz | | |
| 0 | - W | | | | | | | | | |
| -10 | 30.000 | | | | | (MHz) | | | | 1000.000 |
| | 30.000 | 60. | .00 | | | (MHZ) | 300 | .00 | | 1000.000 |
| | No. | Frequenc (MHz) | y | | ding uV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| | 1 | 58.8185 | | 36 | .67 | -18.72 | 17.95 | 40.00 | -22.05 | QP |
| | 2 | 77.8654 | | 40 | .06 | -21.82 | 18.24 | 40.00 | -21.76 | QP |

6

3

4 *

5

Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

-16.42

-15.27

-12.33

-3.32

31.95

34.79

29.67

32.02

46.00

46.00

46.00

54.00

-14.05

-11.21

-16.33

-21.98

QP

QP QP

QP

48.37

50.06

42.00

35.34

2.Margin value = Level -Limit value

343.1800

392.0951

492.4685

986.0717

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| Ant. I | Pol | | | V | ertic | - al | | | | | | | | | | |
|---------------|------------|---------------------|-------------|------|-------|---------|---------------|----------------|------|-------------------|-------------------------|--------------|----------------|-------|--------|-----|
| | | Model | | | | | 120100 | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Test I | | e: | | T | ΧG | FS | K Mod | e 2402MH | IZ | | | | | | | |
| Rema | | | | 0 | nly | wo | rse ca | se is repor | ted. | | | | | | | |
| 90.0 | dBu¥ | '/m | | | | | | | | | | | | | | |
| BO — | | | | | | | | | | | | | | | | |
| 70 - | | | | | | | | | | | | | | | | |
| 50 - | | | | | | | | | | | FCC Part1 | i Class B | 3M Radiation | n | | |
| 50 - | | | | | | | | | | | Margin -6 (| iB | | | | |
| 40 - | | | | | | _ | | | | | | | | | | |
| 30 | | | | | | | | | | | | 5 X | | | 6 X | |
| 20 | 1 X | | | 1 | Å | 114 | | and the | * | . MAMANA AND A | พาใ ^ห ้ไฟไมก | allow | purchardenne | mouth | mart | |
| 10 | , June | navig for the state | Marin 1 | WWW) | ψ. | | A management | MULLIN | N.N | אשינו רייא | ייזייז און און | | | | | |
|) 10 | | | | | | | | | | | | | | | | |
| 30.00 | 00 | | 6 | 0.00 | | | | (MI | Hz) | 30 | 00.00 | | | | 1000 | .00 |
| No | b . | Freq (M | uen IHz) | су | | | iding 8uV) | Facto (dB/m | | Level (dBuV/m) | | mit ıV/m) | Margir (dB) | De | tecto |)r |
| 1 | | 32. | 7486 | 3 | | 37 | .23 | -18.92 | 2 | 18.31 | 40 | .00 | -21.69 |) (| QP | _ |
| 2 | | 57. | 3923 | 3 | | 35 | .98 | -18.62 | 2 | 17.36 | 40 | .00 | -22.64 | 1 (| QP | _ |

3

4

5 *

6

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

-21.67

-19.61

-12.14

-3.38

21.02

22.33

30.96

31.48

40.00

43.50

46.00

54.00

-18.98

-21.17

-15.04

-22.52

QP

QP

QP

QP

42.69

41.94

43.10

34.86

2.Margin value = Level -Limit value

77.0505

175.0367

501.1790

982.6200

CTC Laboratories, Inc.



| Ant. Pol. | Horizontal |
|------------|--|
| Test Mode: | TX GFSK Mode 2402MHz |
| Remark: | No report for the emission which more than 20 dB below the prescribed limit. |
| | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|
| 1 | 4803.676 | 41.90 | 2.00 | 43.90 | 74.00 | -30.10 | peak |
| 2 * | 4803.713 | 27.51 | 2.00 | 29.51 | 54.00 | -24.49 | AVG |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| nt. Pol. | | Vertical | | | | | |
|----------|--------------------|----------------------|------------------|-------------------|-------------------|----------------|------------------|
| est Mod | de: | TX GFSK Mo | de 2402MHz | <u>Z</u> | | | |
| emark: | | No report for limit. | the emission | which more t | han 20 dB be | elow the p | rescribed |
| | | | | | | | |
| | | | | | | | |
| | | 1 | | 1 | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| No. | | · · | | | | - | Detector peak |

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| nt. Pol. | | Horizontal | | | | | |
|----------|--------------------|----------------------|------------------|-------------------|-------------------|----------------|-----------------|
| est Mod | le: | TX GFSK Mo | de 2441MHz | 2 | | | |
| Remark: | | No report for limit. | the emission | which more t | han 20 dB be | elow the p | rescribed |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| No. | | | | | | - | Detector AVG |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| Ant. Pol. | | Vertical | | | | | |
|---------------------|----------------------|----------------------|------------------|-------------------|-------------------|----------------|-----------|
| Test Mod | de: | TX GFSK Mo | de 2441MHz | 2 | | | |
| Remark: | | No report for limit. | the emission | which more | han 20 dB be | elow the p | rescribed |
| | | | | | | | |
| | | | | | | 1 | 1 1 |
| No. | Frequency (MHz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 4881.083 | 41.42 | 2.09 | 43.51 | 74.00 | -30.49 | peak |
| 2 * | 4881.157 | 26.43 | 2.09 | 28.52 | 54.00 | -25.48 | AVG |
| | | | | | | | |
| | | | | | | | |
| Remarks I.Factor | : (dB/m) = Antenn | a Factor (dB/m | n)+Cable Fac | ctor (dB)-Pre- | amplifier Fac | tor | |
| | value = Level -L | • | - | . , | - | | |

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| Ant. Pol. | | Horizontal | | | | | | |
|-----------|--------------------|----------------------|------------------|-------------------|-------------------|----------------|------------|---|
| Test Mod | de: | TX GFSK Mo | de 2480MHz | 7 | | | | |
| Remark: | | No report for limit. | the emission | which more | than 20 dB b | elow the p | orescribed | |
| | | | | | | | | |
| | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| 1 | 4959.809 | 40.59 | 2.21 | 42.80 | 74.00 | -31.20 | peak | |
| 2 * | 4960.965 | 26.54 | 2.21 | 28.75 | 54.00 | -25.25 | AVG | |
| | | | | | | | · / | _ |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| Ant. Po | ol. | Vertical | | | | | |
|---------|--------------------|---|------------------|-------------------|-------------------|----------------|-----------|
| lest M | ode: | TX GFSK Mo | de 2480MHz | z | | | |
| Remar | 'k: | No report for the emission which more than 20 dB below the prescribe limit. | | | | | rescribec |
| | | | | | | | |
| | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 ' | * 4959.997 | 26.38 | 2.21 | 28.59 | 54.00 | -25.41 | AVG |
| 2 | 4960.284 | 40.59 | 2.21 | 42.80 | 74.00 | -31.20 | peak |

2.Margin value = Level -Limit value

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| Ant. Pol. | Horizontal |
|------------|--|
| Test Mode: | TX π/4-DQPSK Mode 2402MHz |
| Remark: | No report for the emission which more than 20 dB below the prescribed limit. |
| | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|
| 1 * | 4803.263 | 27.03 | 1.99 | 29.02 | 54.00 | -24.98 | AVG |
| 2 | 4804.355 | 41.32 | 2.00 | 43.32 | 74.00 | -30.68 | peak |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

| Ant. Pol. | Vertical |
|------------|--|
| Test Mode: | TX π/4-DQPSK Mode 2402MHz |
| Remark: | No report for the emission which more than 20 dB below the prescribed limit. |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|
| 1 ' | 4803.350 | 27.13 | 2.00 | 29.13 | 54.00 | -24.87 | AVG |
| 2 | 4803.822 | 41.79 | 2.00 | 43.79 | 74.00 | -30.21 | peak |

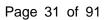
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| Ant. Pol. | | Horizontal | | | | | | |
|-----------|--------------------|---------------------------|------------------|-------------------|-------------------|----------------|-----------|--|
| Test Mod | le: | TX π/4-DQPSK Mode 2441MHz | | | | | | |
| Remark: | | No report for t limit. | the emission | which more t | han 20 dB be | elow the p | rescribed | |
| | | | | | | | | |
| | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| 1 | 4882.768 | 40.31 | 2.09 | 42.40 | 74.00 | -31.60 | peak | |
| 2 * | 4882.775 | 26.48 | 2.09 | 28.57 | 54.00 | -25.43 | AVG | |
| · | | | | | | | | |
| | | | | | | | | |

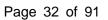
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| Ant. Pol. | | Vertical | | | | | |
|-----------|--------------------|----------------------|------------------|-------------------|-------------------|----------------|-----------|
| est Mod | le: | TX π/4-DQPS | SK Mode 244 | 1MHz | | | |
| emark: | | No report for limit. | the emission | which more t | han 20 dB be | elow the p | rescribed |
| | | | | | | | |
| | | | | | | | |
| No. | Frequency (MHz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 4881.245 | 40.69 | 2.09 | 42.78 | 74.00 | -31.22 | peak |
| 2 * | 4882.093 | 26.60 | 2.09 | 28.69 | 54.00 | -25.31 | AVG |

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| Test Mode: Remark: | | • | | - | han 20 dB be | low the p | rescribed | |
|-----------------------|------------------|-------------------|------------------|-------------------|--|----------------|-----------|--|
| Remark: | | • | the emission | which more t | han 20 dB be | low the p | rescribed | |
| | | | | | Remark: No report for the emission which more than 20 dB below th limit. | | | |
| | | | | | | | | |
| | | | | | | | | |
| No. Fr | equency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| 1 4 | 959.559 | 40.83 | 2.21 | 43.04 | 74.00 | -30.96 | peak | |
| 2* 4 | 960.308 | 26.63 | 2.21 | 28.84 | 54.00 | -25.16 | AVG | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| | | | Vertical | | | | | | |
|--------|--|---|------------------|-------------------|-------------------|----------------|-----------|--|--|
| | Test Mode: TX π/4-DQPSK Mode 2480MHz | | | | | | | | |
| emark: | | No report for the emission which more than 20 dB below the prescribe limit. | | | | | rescribed | | |
| | | | | | | | | | |
| | | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| 1 * | 4960.230 | 26.57 | 2.21 | 28.78 | 54.00 | -25.22 | AVG | | |
| 2 | 4960.242 | 40.84 | 2.21 | 43.05 | 74.00 | -30.95 | peak | | |

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| Ant. Pol. | Horizontal |
|------------|--|
| Test Mode: | TX 8-DPSK Mode 2402MHz |
| Remark: | No report for the emission which more than 20 dB below the prescribed limit. |
| | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|
| 1 * | 4803.065 | 27.29 | 1.99 | 29.28 | 54.00 | -24.72 | AVG |
| 2 | 4803.753 | 40.82 | 2.00 | 42.82 | 74.00 | -31.18 | peak |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

| Ant. Pol. | | Vertical | | | | | |
|-----------------------------------|-----------|--|--------|-------|-------|--------|---|
| Test Mode: TX 8-DPSK Mode 2402MHz | | | | | | | |
| Remark: | | No report for the emission which more than 20 dB below the prescribed limit. | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Frequency | Reading | Factor | Level | Limit | Margin | - |

| No. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector |
|-----|----------|--------|--------|----------|----------|--------|----------|
| 1 * | 4803.139 | 27.18 | 1.99 | 29.17 | 54.00 | -24.83 | AVG |
| 2 | 4803.618 | 41.58 | 2.00 | 43.58 | 74.00 | -30.42 | peak |

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| Ant. Pol. | | Horizontal | | | | | | |
|-----------------------------------|--------------------|--|------------------|-------------------|-------------------|----------------|----------|--|
| Test Mode: TX 8-DPSK Mode 2441MHz | | | | | | | | |
| Remark: | | No report for the emission which more than 20 dB below the prescribed limit. | | | | rescribed | | |
| | | | | | | | | |
| | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| 1 | 4881.187 | 40.77 | 2.09 | 42.86 | 74.00 | -31.14 | peak | |
| 2 * | 4882.824 | 26.51 | 2.09 | 28.60 | 54.00 | -25.40 | AVG | |
| | | | | | | | <u> </u> | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| Ant. Pol. | | Vertical | | | | | | | |
|---------------------|-----------------------------------|--|------------------|-------------------|-------------------|----------------|----------|--|--|
| Test Mod | Test Mode: TX 8-DPSK Mode 2441MHz | | | | | | | | |
| Remark: | | No report for the emission which more than 20 dB below the prescribed limit. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| 1 | 4881.300 | 41.14 | 2.09 | 43.23 | 74.00 | -30.77 | peak | | |
| 2 * | 4882.876 | 26.54 | 2.09 | 28.63 | 54.00 | -25.37 | AVG | | |
| | | · · · · · | | | | | · / | | |
| | | | | | | | | | |
| Remarks I.Factor | : (dB/m) = Antenn | a Factor (dB/m |)+Cable Fac | tor (dB)-Pre-a | amplifier Fact | or | | | |
| | value = Level -L | , | | | | .01 | | | |

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| Ant. Pol. | | Horizontal | | | | | | |
|--|------------------------------|-------------------|------------------|-------------------|-------------------|----------------|-----------------|--|
| est Mod | Dete: TX 8-DPSK Mode 2480MHz | | | | | | | |
| Remark: No report for the emission which more than 20 dB below the prescriber limit. | | | | | rescribed | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| No. | | - | | | | - | Detector AVG | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

| Ant. Pol. | | Vertical | | | | | | |
|-----------|--------------------|--|------------------|-------------------|-------------------|----------------|----------|--|
| est Mo | de: | TX 8-DPSK Mode 2480MHz | | | | | | |
| emark | : | No report for the emission which more than 20 dB below the prescribed limit. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| No. | Frequency (MHz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | |
| 1 * | 4960.136 | 26.30 | 2.21 | 28.51 | 54.00 | -25.49 | AVG | |
| 2 | 4960.940 | 40.12 | 2.21 | 42.33 | 74.00 | -31.67 | peak | |

2.Margin value = Level -Limit value

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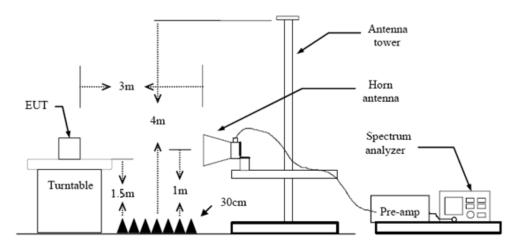
3.3. Band Edge Emissions (Radiated)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

| Restricted Frequency Band | (dBµV/m) (at 3m) | | | | |
|---------------------------|------------------|---------|--|--|--|
| (MHz) | Peak | Average | | | |
| 2310 ~ 2390 | 74 | 54 | | | |
| 2483.5 ~ 2500 | 74 | 54 | | | |

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.

2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.

3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

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| nt. Pol. | | | Horizonta | | | | | | | | |
|-----------------|---------|--------------|---|--------------------------------|---------------------|-------------------------|--------------|------------------|-------------------|------------|----------|
| est Mod | e: | | GFSK Mo | de 2402 | 2MHz | | | | | | |
| 20.0 dBuV | '/m | | | 1 | | | 1 | | 1 | | 1 |
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| 0 | | | | | | | | | | | |
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| , | | | | | | | | FCC Part1 | 5 C - Above 1G | PK | - |
| , , | | | | | | | | | | | |
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|).0 2306.000 | 2316.00 | 2326.00 | 2336.00 | 2346.00 | (MHz) | 236 | 6.00 | 2376.00 23 | 386.00 239 | 6.00 240 | 36.0 |
| No. | - | Jency Hz) | Readir (dBu\ | - | - actor dB/m) | | vel IV/m) | Limit (dBuV/n | Margii n) (dB) | Detect | tor |
| 1 | 2390 | 000. | 22.94 | t 3 | 31.31 | 54 | .25 | 74.00 | -19.75 | 5 peal | k |
| 2 * | 2390 | | 6.16 | | 31.31 | | .47 | 54.00 | | _ · | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| Ant. Po | 1 | | | Verti | cal | | | | | | | | | | | | | |
|-------------------|----------|---------------|-----------|---------------|------------------------|--------------|----------|----------|--------------|--------------|--|--------------|----------|----------|---------------|--------|-----------|------|
| Test Mo | | | | | | do (| 2402N | 1117 | | | | | | | | | | |
| | u¥/m | | | 013 | | | 240210 | | | | | | | | | | | |
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| 100 | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | Λ | |
| | | | | | | | | | | | | FC | C Part15 | C - Abo | ve 16 | PK | \square | |
| 70 | | | | | | | | | | | | | | | | | H | |
| 60 | | | | | | | | | | | | FC | C Part15 | C-Abo | ve 1G | ۸V | | |
| 50 | | | | | | | | | | | | | | × | | | | |
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| 10 | | | | | | | | | | | | | | | | | | |
| 0.0 2305.50 | 0 2315.5 | 50 23 | 25.50 | 233 | 5.50 | 23 | 45.50 | (MHz | 1 | 236 | 5.50 | 2375.5 | 0 238 | 5.50 | 2395 | 5.50 | 240 | 5.50 |
| | | | | | | | | , | | | | | | | | | | |
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| | Fre | quer | icy | Re | adir | ng | Fa | ctor | | Le | vel | L L | .imit | Ma | argir | ۱ _ | | |
| No. | | ΜНz | - | | BuV | - | (dE | 8/m) | | (dBu | V/m) | dB) | uV/m | | dB) | | etect | or |
| 1 | | | | | | | | , | + | | | | | | | | | |
| 1 | | 90.00 | | <u> </u> | 8.30 | , | | .31 | \downarrow | 49 | | <u> </u> | 4.00 | _ | 4.39 | | bea | |
| 2 * | 23 | 90.00 | 00 | 5 | 5.81 | | 31 | .31 | | 37 | .12 | 5 | 4.00 | -1 | 6.88 | 3 / | 400 | 3 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Domork | <u></u> | | | | | | | | | | | | | | | | | |
| Remark 1.Facto | |) = An | tenna | Fac | tor (d | B/m | n)+Cat | ole Fa | act | tor (dE | 8)-Pre- | ampli | ifier Fa | ctor | | | | |

2.Margin value = Level -Limit value

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| | ode: JuV/m | GFSK Mode | 2480MHz | | | | |
|-------------|-----------------------------|-------------------|------------------------|--|--|---------------------------|----------|
| | JuV/m | | | | | | |
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| 2476.50 | 0 2486.50 2496.5 | 0 2506.50 25 | 516.50 (MHz) | 2536.50 | 2546.50 2556. | .50 2566. | 50 2576. |
| | | | | | | | |
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 2483.500 | 17.67 | 31.48 | 49.15 | 74.00 | -24.85 | peak |
| 2 * | 2483.500 | 5.35 | 31.48 | 36.83 | 54.00 | -17.17 | AVG |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. Pol. | | Y | Vertical | | | | | |
|----------|--------------------------|---|--|---|--------------------------|--|------------------------------------|---------------------|
| est Mod | de: | | GFSK Mode | 2480MHz | | | | |
| 20.0 dBu | V/m | | | | 1 | | | |
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|)).0 | | | | | | | | |
| 2477.500 | 2487.50 | 2497.50 | 2507.50 2 | 2517.50 (MHz) | 2537.50 | 2547.50 2557. | .50 2567.9 | 50 2577.9 |
| No. | | uency Hz) | Reading (dBuV) | Factor (dB/m) | | Limit (dBuV/m) | Margin (dB) | Detector |
| | | | | | | | | |
| 1 | 2483 | 3.500 | 17.93 | 31.48 | 49.41 | 74.00 | -24.59 | peak |
| 2 * | 2483 | 3.500 | 5.53 | 31.48 | 37.01 | 54.00 | -16.99 | AVG |
| | | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| nt. Pol. | | | Horizontal | | | | | |
|----------------|--------------|--------------|-------------------|------------------|--------------------|-------------------|----------------|----------|
| est Moc | le: | 1 | π/4-DQPSK | Mode 2402M | Hz | | | |
| 20.0 dBu\ | //m | | | | | | | |
| 10 | | | | | | | | |
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| | | | | | | | AL 10 D | |
| | | | | | | FCC Part15 C | - Above 16 Pi | |
| | | | | | | FCC Part15 C | Abarra 10 Al | |
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| | | | | | | | | |
| .0 2306.000 | 2316.00 | 2326.00 | 2336.00 2 | 346.00 (MHz) | 2366.00 | 2376.00 2386. | .00 2396.0 | . |
| No. | Frequ (Mł | iency Hz) | Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 2390 | .000 | 19.17 | 31.31 | 50.48 | 74.00 | -23.52 | peak |
| 2 * | 2390 | .000 | 4.59 | 31.31 | 35.90 | 54.00 | -18.10 | AVG |
| | | | 1 | 1 | 1 | 1 | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. Pol | - | Vertical | | | | | |
|---|---|---------------|----------------------------------|---|--------------------|-------------------|----------|
| est Mo | de: | π/4-DQPSK | Mode 2402M | Hz | | | |
| 0.0 dB | iV/m | | | | | | |
| o | | | | | | | |
| | | | | | | | |
| 0 | | | | | | | |
| | | | | | | | 0 |
| | | | | | FCC Part15 C | - Above 1G P | ĸ |
| | | | | | | | |
| | | | | | ECC Part15 C | About 1C A | |
| | | | | | FCC Part15 C | X | Ť Ť |
| | | | | | | 2 | |
| an an an Anna an Anna an Anna an Anna Ann | whether the state of the second se | mantalana | and marked all and an and an and | annan an taile an tai | an weather and the | alant hander dawy | mal the |
| | | | | | | | |
| | | | | | | | |
| .0 | | | | | | | |
| 2305.500 |) 2315.50 2325 | .50 2335.50 2 | 345.50 (MHz) | 2365.50 | 2375.50 2385 | .50 2395. | 50 2405. |
| | Frequenc | y Reading | Factor | Level | Limit | Margin | |
| No. | (MHz) | (dBuV) | (dB/m) | | (dBuV/m) | | Detector |
| 1 | 2390.000 |) 19.46 | 31.31 | 50.77 | 74.00 | -23.23 | peak |
| 2 * | 2390.000 | 6.30 | 31.31 | 37.61 | 54.00 | -16.39 | AVG |
| | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. Pol. | | Hori | zontal | | | | | |
|-----------|--|--|------------------------------|--|--|-------------------------------------|-----------------------------|----------|
| est Mod | le: | π/4- | DQPSK N | Mode 2480N | Hz | | | |
| 20.0 dBu\ | //m | | | | | | | |
| o | | | | | | | | |
| 0 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | FCC Part15 C | - Above 1G Pl | ĸ |
| | | | | | | | | |
| | | | | | | FCC Part15 C | - Above 1G A | <u> </u> |
| | 1 | | | | | | | |
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| | | | | | | | | |
| .0 | | | | | | | | |
| 2476.500 | 2486.50 249 | 6.50 25 | 06.50 25 | 16.50 (MHz) | 2536.50 | 2546.50 2556. | .50 2566. | 50 2576. |
| No. | Frequence (MHz) | | eading dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 2483.50 | 0 1 | 14.24 | 31.48 | 45.72 | 74.00 | -28.28 | peak |
| 2 * | 2483.50 | 0 | 5.47 | 31.48 | 36.95 | 54.00 | -17.05 | AVG |
| | | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. | Pol. | | | 1 | Verti | cal | | | | | | | | | | | |
|------|-------|---------|---------------|------|-----------|--------------|------|-------|----------------|----|---------------|----------------|----------------|---------------|---------------|-------|----------------|
| est | Mod | le: | | | π/4-[| DQPS | ΚN | /lode | 2480 | M | Ηz | | | | | | |
| 20.0 | dBu\ | //m | | | | | | | | | | | | | | | |
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| ' - | ٨ | | | | | | | | | | | | | | | | |
| | Π_ | | | | | | | | | | | | FC | C Part15 C | - Above 16 | РК | |
| ' - | | | | | | | | | | | | | | | | | |
| ' - | 1 | | | | | | | | | | | | FC | C Part15 C | - Above 16 | AV | |
| • F | × | | | | | | | | | | | | | | | | |
| · / | 2 | hermon | | ~ | Windowski | mande | mana | - | A. Junioriland | | dan ganatraga | Nonesautración | ernes (styles | Mandersona | moderholeur | | where you want |
| - - | | | | | | | | | | | | | | | | | |
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| - | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 247 | 7.500 | 2487.50 | 249 | 7.50 | 250 | 7.50 | 25 | 17.50 | (MH | zj | 253 | 7.50 | 2547.50 | D 2557 | .50 256 | 67.50 | 2577 |
| | | | | | | | | | | | | | | | | | |
| N | 0. | | queno 1Hz) | зy | | adin BuV) | | | actor 3/m) | | | vel V/m) | | imit uV/m) | Margi (dB) | n c | etecto |
| 1 | | 248 | 3.50 | 0 | 2 | 0.21 | | 31 | .48 | | 51 | .69 | 74 | 4.00 | -22.3 | 1 | peak |
| 2 | * | 248 | 3.50 | 0 | 5 | 5.93 | | 31 | .48 | | 37 | .41 | 54 | 4.00 | -16.59 | 9 | AVG |
| | | | | | | | | | | | | | | | - | | |
| | arks: | | | | | | | | | | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| Ant. Pol | - | Horizontal | | | | | |
|-----------------|--------------------|------------------------|------------------|-------------------|-------------------|----------------|------------------|
| est Mo | de: | 8-DPSK Mod | e 2402MHz | | | | |
| 20.0 dBu | iV/m | | | | | | |
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| 0 | | | | | | | |
| 0 | | | | | FCC Part15 C | About 16 Pt | \mathbb{A} |
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| 0 | | | | | FCC Part15 C | Abava 1C Al | |
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| o | | | | | | | |
| 0.0 2306.000 | 2316.00 2326.0 | 00 2336.00 23 | 346.00 (MHz) | 2366.00 | 2376.00 2386. | 00 2396.0 | <u>)0 2406.0</u> |
| No. | Frequency (MHz) | / Reading (dBu∀) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| | | 47.47 | 31.31 | 48.48 | 74.00 | -25.52 | peak |
| 1 | 2390.000 | 17.17 | 01.01 | | | | 1 I |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. Pol. | | 1 | Vertical | | | | | |
|----------------|--|-------------------------------------|-------------------|---|--|--|----------------|----------|
| est Mod | le: | | 8-DPSK M | ode 2402MHz | | | | |
| 20.0 dBu\ | //m | | | | i i | | 1 | |
| 0 | | | | | | | | |
| 0 | | | | | | | | |
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| . | | | | | | FCC D-ME C | - Above 1G P | A |
| | | | | | | | - ADOVE TG P | |
| | | | | | | ECC Part15 C | - Above 1G A | |
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| | | | | | | | | |
| | | | | | | | | |
| .0 2305.500 | 2315.50 | 2325.50 | 2335.50 | 2345.50 (MHz) | 2365.50 | 2375.50 2385 | .50 2395. | 50 2405. |
| No. | | Jency Hz) | Reading (dBuV) | - | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 2390 | 000. | 16.42 | 31.31 | 47.73 | 74.00 | -26.27 | peak |
| 2 * | 2390 | 000. | 5.28 | 31.31 | 36.59 | 54.00 | -17.41 | AVG |
| | | | | | | | | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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| nt. Pol. | | Horizontal | | | | | |
|--------------|--------------|----------------|---------------------------|--|-----------------------|----------------|---------------|
| est Mod | le: | 8-DPSK Mod | e 2480MHz | | | | |
| 0.0 dBu\ | //m | | | | | | |
| | | | | | | | |
| 0 | | | | | | | |
| 0 | | | | | | | |
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| | | | | | FCC Part15 C | - Above 16 P | K |
| | | | | | | | |
| \downarrow | | | | | FCC Part15 C | - Above 1G A | v |
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| .0 | | | | | | | |
| 2476.500 | 2486.50 2496 | .50 2506.50 25 | 16.50 (MHz) | 2536.50 | 2546.50 2556. | .50 2566. | 50 2576. |
| | Frequenc | y Reading | Factor | Level | Limit | Margin | - |
| No. | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector |
| 1 | 2483.500 |) 13.59 | 31.48 | 45.07 | 74.00 | -28.93 | peak |
| 2 * | 2483.500 |) 5.74 | 31.48 | 37.22 | 54.00 | -16.78 | AVG |
| ~ | | | | | | | 1 |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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| nt. | Pol. | | | Vertical | | | | | |
|------------|--------|---------|---------------------|-------------------|--|--|----------------------------------|----------------|------------|
| est | Mod | e: | | 8-DPSK Mod | le 2480MHz | | | | |
| 20.0 | dBu¥ | /m | 1 | i i | 1 | i | | | |
| 10 | | | | | | | | | |
| | | | | | | | | | |
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| | Λ | | | | | | | | |
| | 4 | | | | | | FCC Part15 C | - Above 1G P | ĸ |
| ' - | | | | | | | | | |
| | | | | | | | FCC Part15 C | - Above 1G A | v |
| 1 | X | | | | | | | | |
| | 2 | | Acres and a strange | menderstation | And some set and a set of the set | rabal Maraya yi sugabu, murak lan wana y | vernot and a second and a second | and many many | Hentymonia |
| | | | | | | | | | |
| • - | | | | | | | | | |
| • - | | | | | | | | | |
| 0.0 247 | 77.500 | 2487.50 | 2497.50 | 2507.50 2 | 517.50 (MHz) | 2537.50 | 2547.50 2557. | 50 2567.5 | 50 2577.9 |
| | | | | | | | | | |
| Ν | lo. | | uency Hz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| | 1 | 248 | 3.500 | 16.36 | 31.48 | 47.84 | 74.00 | -26.16 | peak |
| 2 | * | 248 | 3.500 | 5.62 | 31.48 | 37.10 | 54.00 | -16.90 | AVG |
| | | | | | | | | - | |

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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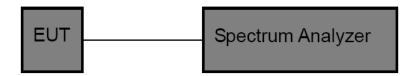
3.4. Band Edge and Spurious Emissions (Conducted)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Configuration



Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic. Sweep = auto, Detector function = peak, Trace = max hold.
- 4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Result

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Band Edge Conducted Test

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|-------------|--------|-----------|-------------------|-----------------|----------------|---------|
| | | Low | 2402 | 4.11 | -48.54 | ≤-15.89 | PASS |
| DH5 | Ant1 | High | 2480 | 4.75 | -47.97 | ≤-15.26 | PASS |
| DHD | DH5 ANU | Low | Hop_2402 | 5.75 | -49.59 | ≤-14.25 | PASS |
| | | High | Hop_2480 | 6.26 | -47.86 | ≤-13.74 | PASS |
| | Ant1 | Low | 2402 | 2.52 | -48.99 | ≤-17.48 | PASS |
| 2DH5 | | High | 2480 | 3.11 | -48.31 | ≤-16.89 | PASS |
| | | Low | Hop_2402 | 2.92 | -48.81 | ≤-17.08 | PASS |
| | | High | Hop_2480 | 6.55 | -48.03 | ≤-13.45 | PASS |
| | 3DH5 Ant1 - | Low | 2402 | 3.20 | -48.4 | ≤-16.8 | PASS |
| 3DH5 An | | High | 2480 | 2.96 | -48.05 | ≤-17.04 | PASS |
| | | Low | Hop_2402 | 6.33 | -48.81 | ≤-13.67 | PASS |
| | | High | Hop_2480 | 3.65 | -48.89 | ≤-16.35 | PASS |

Conducted Spurious Emissions Test

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------------------|--------------|--------------------|-------------------|-----------------|----------------|---------|
| | | | Reference | 3.48 | 3.48 | [ubiiij | PASS |
| | | 2402 2441 | 30~1000 | 3.48 | -55.1 | ≤-16.52 | PASS |
| | | | | 3.48 | | | PASS |
| | | | 1000~26500 | | -41.64 | ≤-16.52 | |
| DUC | A | | Reference | 3.52 | 3.52 | | PASS |
| DH5 | Ant1 | | 30~1000 | 3.52 | -54.7 | ≤-16.48 | PASS |
| | | | 1000~26500 | 3.52 | -41.73 | ≤-16.48 | PASS |
| | | 2480 | Reference | 4.01 | 4.01 | | PASS |
| | | | 30~1000 | 4.01 | -55.11 | ≤-15.99 | PASS |
| | | | 1000~26500 | 4.01 | -41.57 | ≤-15.99 | PASS |
| | | 2402 | Reference | 2.39 | 2.39 | | PASS |
| | | | 30~1000 | 2.39 | -54.89 | ≤-17.61 | PASS |
| | | | 1000~26500 | 2.39 | -41.69 | ≤-17.61 | PASS |
| | | 2441 | Reference | 2.25 | 2.25 | | PASS |
| 2DH5 | Ant1 | | 30~1000 | 2.25 | -54.88 | ≤-17.75 | PASS |
| | | | 1000~26500 | 2.25 | -41.58 | ≤-17.75 | PASS |
| | | 2480 | Reference | 3.11 | 3.11 | | PASS |
| | | | 30~1000 | 3.11 | -54.55 | ≤-16.89 | PASS |
| | | | 1000~26500 | 3.11 | -41.42 | ≤-16.89 | PASS |
| | 1 5 Ant1 | 2402 | Reference | 2.43 | 2.43 | | PASS |
| | | | 30~1000 | 2.43 | -54.98 | ≤-17.57 | PASS |
| | | | 1000~26500 | 2.43 | -40.85 | ≤-17.57 | PASS |
| 3DH5 | | 2441 | Reference | 2.22 | 2.22 | | PASS |
| | | | 30~1000 | 2.22 | -55 | ≤-17.78 | PASS |
| | | | 1000~26500 | 2.22 | -40.96 | ≤-17.78 | PASS |
| | | 2480 | Reference | 2.89 | 2.89 | | PASS |
| | | | 30~1000 | 2.89 | -54.9 | ≤-17.11 | PASS |
| | | | 1000~26500 | 2.89 | -41.55 | ≤-17.11 | PASS |

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Band Edge Conducted Test plot as follows:

| • | 0H5 Ant1 | Low_2402 | | | |
|---|--|-------------------------------------|---|----------------------------------|--|
| Agilent Spectrum Analyzer - Swept SA | | | 02:35:57 PMNov 04, 2024 | | |
| Center Freq 2.352500000 GHz PN0: Fast → IF6ain:Low | | #Avg Type: RMS Avg Hold: 100/100 | TRACE 123456 TYPE MULTURE DET PPPPP | Frequency | |
| Ref Offset 8.57 dB 10 dB/div Ref 20.00 dBm | | Mkr5 | 2.364 890 GHz -48.538 dBm | Auto Tune | |
| 10 dB/div Ref 20.00 dBm | | | | Center Freq | |
| -10.0 | | | -15.85 dBn | 2.352500000 GHz | |
| -20.0 | | | | Start Freq 2.30000000 GHz | |
| -40.0 | | 5 | 3 2 | 2.00000000 0112 | |
| 60.0 | Let la contra la | | | Stop Freq 2.40500000 GHz | |
| Start 2.30000 GHz | | <u> </u> | Stop 2.40500 GHz | CF Step | |
| MKR MODE TRC SCL X | V 300 kHz | Sweep 1 NCTION FUNCTION WIDTH | 0.07 ms (1001 pts) FUNCTION VALUE | 10.500000 MHz <u>Auto</u> Man | |
| 1 N 1 f 2.402 060 GHz 2 N 1 f 2.400 000 GHz 3 N 1 f 2.300 000 GHz 4 N 1 f 2.310 000 GHz | 4.108 dBm -52.214 dBm -50.754 dBm -51.951 dBm -48.538 dBm | | | Freq Offset | |
| 4 N 1 f 2.310 000 GHz 5 N 1 f 2.364 890 GHz 6 7 | -48.538 dBm | | | 0 Hz | |
| 8 9 10 | | | | | |
| 11 | H | STATU | > | | |
| | H5_Ant1_ | High_2480 | | | |
| Agilent Spectrum Analyzer - Swept SA (μ) RL RF 50 Ω AC | SENSE:PULSE | ALIGN AUTO | 02:41:33 PMNov 04, 2024 | Frequency | |
| Center Freq 2.510000000 GHz PNO: Fast | ⊶ Trig: Free Run #Atten: 30 dB | #Avg Type: RMS Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE MUSEUM DET P P P P P P | | |
| Ref Offset 8.57 dB 10 dB/div Ref 20.00 dBm | | Mkr | 4 2.529 60 GHz -47.965 dBm | Auto Tune | |
| 10.0 | | | | Center Freq | |
| -10.0 | | | -15.26 dBm | 2.51000000 GHz | |
| -20.0 | | | | Start Freq 2.47000000 GHz | |
| -40.0 | 3 Andreagene Jand Marshall Marsh | | adadaaa | Oten Free | |
| -60.0 | | | | Stop Freq 2.55000000 GHz | |
| Start 2.47000 GHz #Res BW 100 kHz #VBW | N 300 kHz | Sween 7 | Stop 2.55000 GHz .667 ms (1001 pts) | CF Step 8.000000 MHz | |
| MKR MODELTRC SCL X | Y FU | NCTION FUNCTION WIDTH | | <u>Auto</u> Man | |
| 3 N 1 f 2.500 00 GHz 4 N 1 f 2.529 60 GHz | 4.745 dBm -51.681 dBm -50.520 dBm -47.965 dBm | | | Freq Offset 0 Hz | |
| 5 6 7 | | | 3 | | |
| 8 9 10 11 | | | | | |
| < MSG | ш | STATU | s | | |
| | 5_Ant1_Lo | w_Hop_24 | 02 | | |
| Agilent Spectrum Analyzer - Swept SA Image: Solution of the state of the sta | SENSE:PULSE | #Avg Type: RMS | 03:24:58 PMNov 04, 2024 TRACE 1 2 3 4 5 6 TYPE MMMMMM | Frequency | |
| IFGain:Low | ⊶ Trig: Free Run #Atten: 30 dB | Avg Hold: 100/100 | DETPPPP | Auto Tune | |
| Ref Offset 8.3 dB 10 dB/div Ref 20.00 dBm | | WIKI5 | 2.391 245 GHz -49.591 dBm | | |
| | | | | Center Freq 2.352500000 GHz | |
| -10.0 | | | -14.28 de r | | |
| -30.0 | | | | Start Freq 2.30000000 GHz | |
| -500 nder Witter Strander Berlins timber Jonanne Bater | earthangarana | And all these and a straight of | | Stop Freq | |
| -70.0 | | | | 2.405000000 GHz | |
| Start 2.30000 GHz #Res BW 100 kHz #VBW | N 300 kHz | Sweep 1 | Stop 2.40500 GHz 0.07 ms (1001 pts) | CF Step 10.500000 MHz | |
| MKR MODE TRC SCL X | Y BI | NCTION FUNCTION WIDTH | | <u>Auto</u> Man | |
| 1 1 2,100,300,112 2 N 1 f 2,400,000,6Hz 3 N 1 f 2,390,000,6Hz 4 N 1 f 2,390,000,6Hz 5 N 1 f 2,391,245,6Hz | 5.748 dBm -52.387 dBm -50.904 dBm -52.964 dBm -49.591 dBm | | | Freq Offset 0 Hz | |
| 6 7 8 | | | | | |
| 9 10 11 | | | | | |
| MSG | 11 | STATU | s | | |
| | | | | | |

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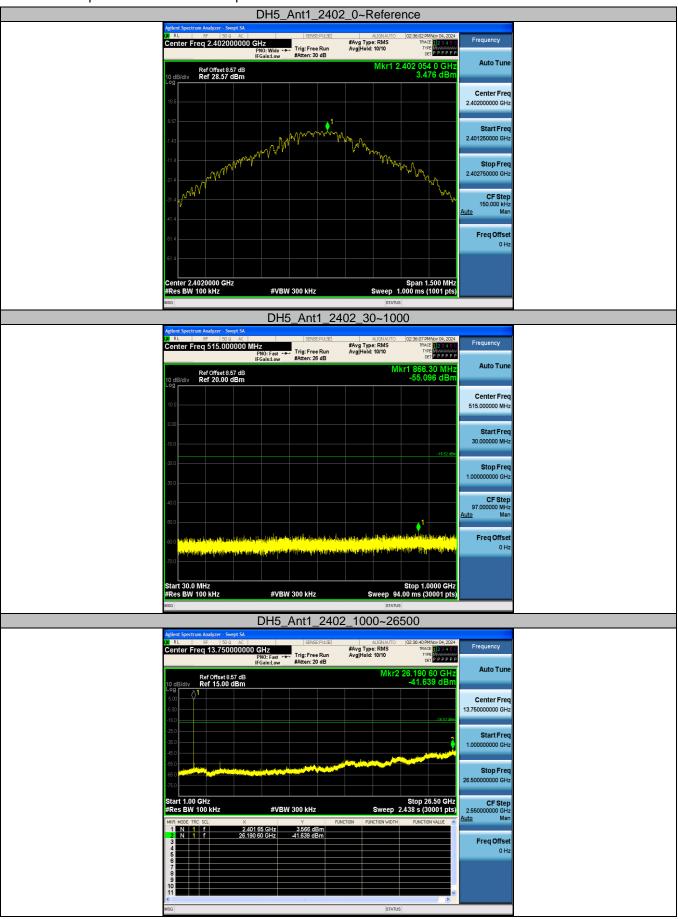




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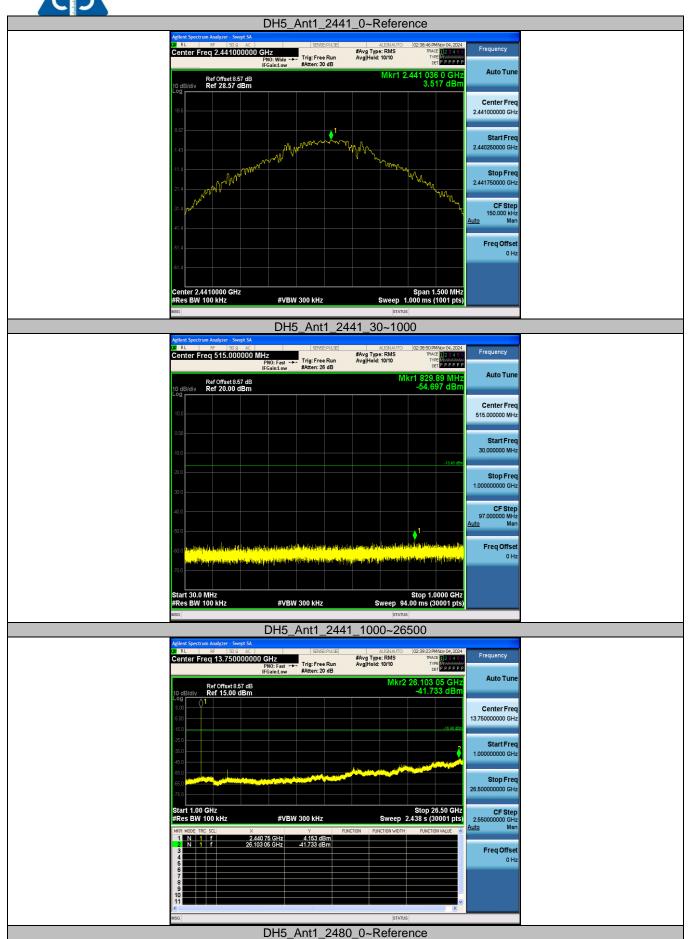
Conducted Spurious Emissions Test plot as follows



CTC Laboratories, Inc.

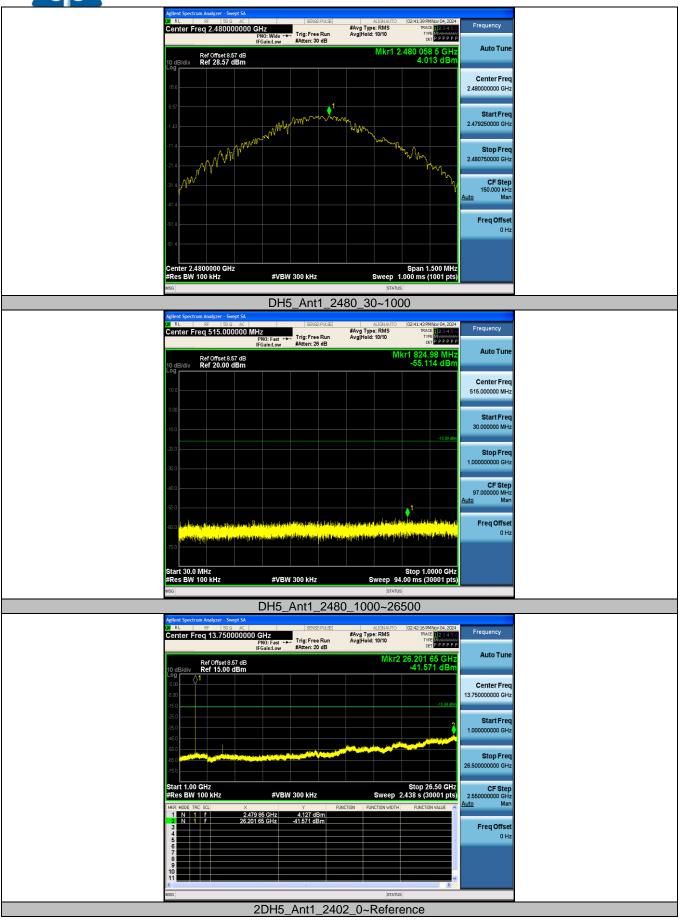
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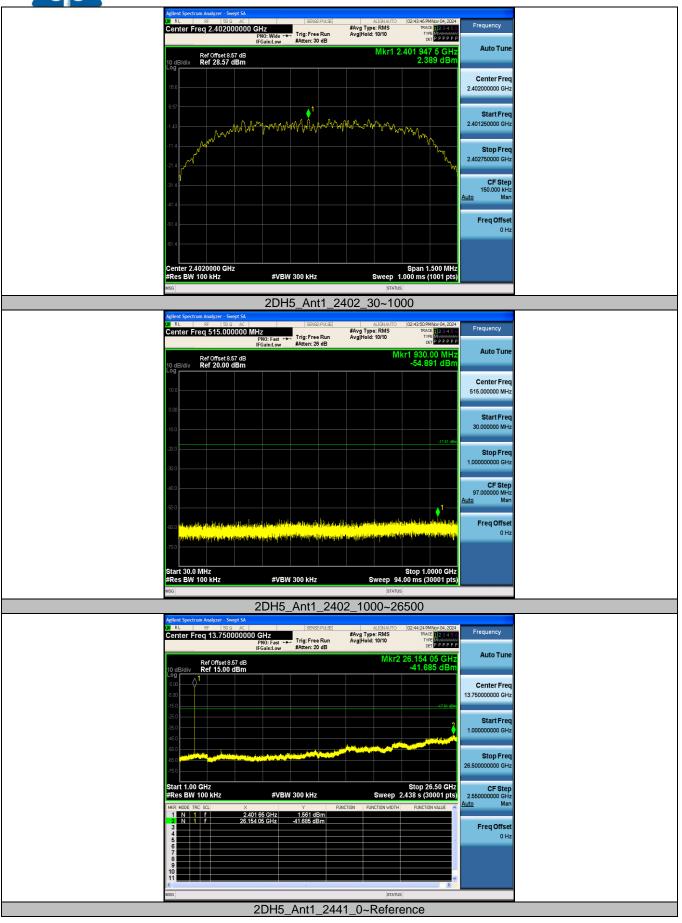
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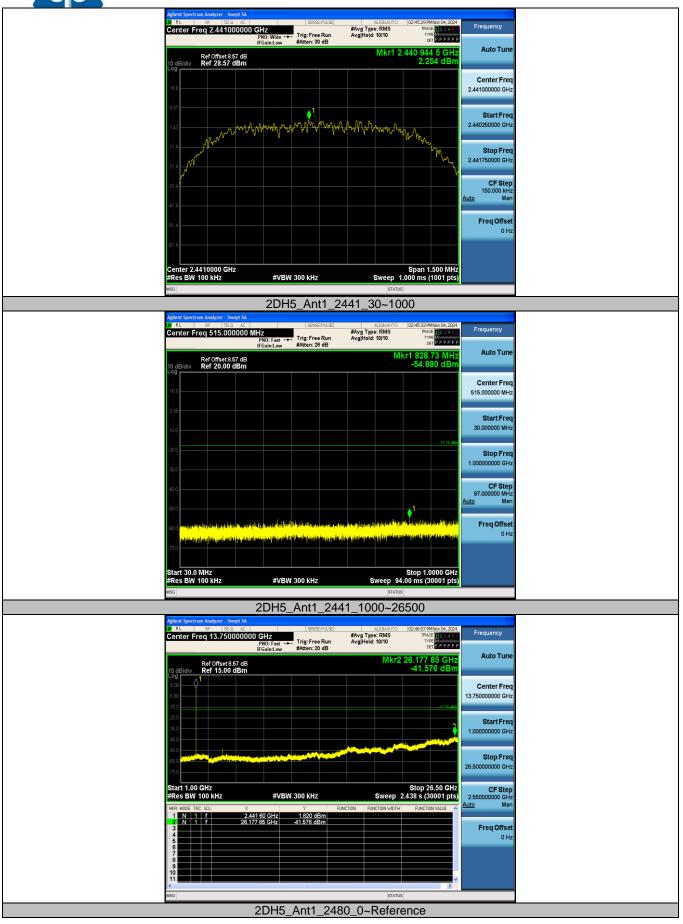
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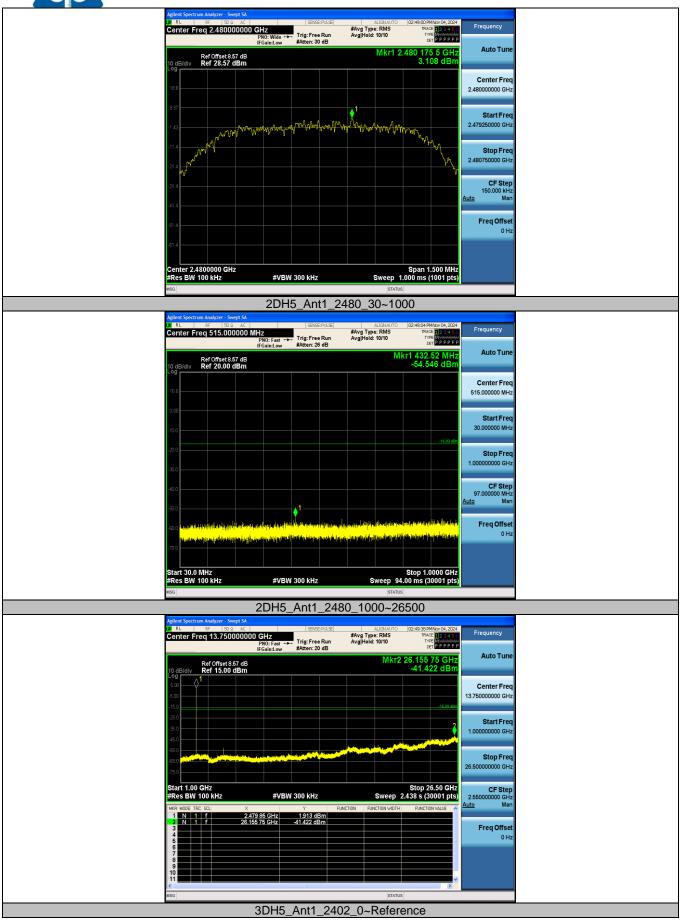
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