

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100002402

Page: 1 of 66

TEST REPORT

| | |
|------------------------------------|---|
| Application No.: | FYCR2301000024AT |
| Applicant: | Shenzhen DNR Technology Co., Ltd |
| Address of Applicant: | 1505, Mingteng Center Building, Qinghu Road, Qinghua Community, Longhua Street, Shenzhen 518109 China |
| Manufacturer: | Shenzhen DNR Technology Co., Ltd |
| Address of Manufacturer: | 1505, Mingteng Center Building, Qinghu Road, Qinghua Community, Longhua Street, Shenzhen 518109 China |
| Factory: | Shenzhen DNR Technology Co., Ltd |
| Address of Factory: | 1505, Mingteng Center Building, Qinghu Road, Qinghua Community, Longhua Street, Shenzhen 518109 China |
| Equipment Under Test (EUT): | |
| EUT Name: | Digital Signage |
| Model No.: | DCE230-IT, DXE231 * |
| * | Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical. |
| FCC ID: | 2BAC504010408 |
| Standard(s) : | 47 CFR Part 15, Subpart C 15.247 |
| Date of Receipt: | 2023-02-03 |
| Date of Test: | 2023-02-14 to 2023-03-01 |
| Date of Issue: | 2023-03-09 |
| Test Result: | Pass* |

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



Winkey Wang
EMC Technical Manager



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| Revision Record | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023-03-09 | | Original |
| | | | | |
| | | | | |

| Authorized for issue by: | | | |
|---------------------------------|---|----------------------------|--|
| |  | Tree Zhan | |
| | | Tree Zhan/Project Engineer | |
| |  | Winkey Wang | |
| | | Winkey Wang/Reviewer | |

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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|---|----------------------------------|---------------|---|---------------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|--------------------------------------|---|---------------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 11.9.1 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass |
| Minimum 6dB Bandwidth | | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass |
| Power Spectrum Density | | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Below 1GHz | | ANSI C63.10 (2013) Section 6.4,6.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions Above 1GHz | | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |

Declaration of EUT Family Grouping:

Model No.: DCE230-IT, DXE231

Only the model DCE230-IT was tested fully, and the model DCE231 was performed the Radiated Emissions (30MHz-1GHz) and Conducted Emissions at AC Power Line (150kHz-30MHz) test for discrepancy., since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on the screen size of the DCE230-IT is 23 inches, and is a touch screen. The screen size of DCE231 is 23.1 inches and is non touch screen

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4 General Information**4.1 Details of E.U.T.**

| | |
|----------------------|---|
| Power supply: | DC 12V from adapter input AC 120V/60Hz Adapter Model: QL024-1202000Z Input: 100-240V~, 50/60Hz 0.8A Output: 12.0V=2.0A 24.0W |
| Cable(s): | Adapter DC Cable: 150cm unshielded |
| Operation Frequency: | 2402MHz to 2480MHz |
| Bluetooth Version: | V4.2 Dual mode |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Antenna Type: | FPC Antenna |
| Antenna Gain: | 1.47 dBi |

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| -- | -- | -- | -- |

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|--------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ± 2.1 dB (9kHz to 30MHz) |
| Conducted Peak Output Power | ± 0.8dB |
| Minimum 6dB Bandwidth | ± 0.3% |
| Power Spectrum Density | ± 0.4dB |
| Conducted Band Edges Measurement | ± 2.7dB |
| Conducted Spurious Emissions | ± 2.7dB |
| Radiated Emissions which fall in the restricted bands | ± 4.4dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | ± 3.1dB (Below 1GHz) |
| Radiated Spurious Emissions Above 1GHz | ± 4.4dB (Above 1GHz) |

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4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|-----------------|-----------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | CRT | N/A | SEM001-14 | 2021/7/13 | 2024/7/12 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-01 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | SEM007-16 | 2022/7/12 | 2023/7/11 |
| Two-Line V-Network | Rohde & Schwarz | ESH3-Z5 | SEM007-22 | 2023/1/9 | 2024/1/8 |
| Coaxial Cable | CCS | N/A | SEM033-02 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

| Conducted Peak Output Power | | | | | |
|-----------------------------|---------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-15 | 2022/7/12 | 2023/7/11 |
| Power Sensor | Erika Fiedler | U2021XA | SEM009-16 | 2022/7/12 | 2023/7/11 |
| Programmable DC Source | Chroma | 62024P-80-60 | SEM011-09 | 2022/7/12 | 2023/7/11 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Minimum 6dB Bandwidth | | | | | |
|-----------------------|--------------|---------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

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| Power Spectrum Density | | | | | |
|-------------------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Conducted Band Edges Measurement | | | | | |
|---|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Conducted Spurious Emissions | | | | | |
|-------------------------------------|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-25 | 2022/5/30 | 2023/5/29 |
| Attenuator | Huber+Suhner | 6620_SMA-50-1 | SEM021-09 | 2022/7/12 | 2023/7/11 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |

| Radiated Emissions which fall in the restricted bands | | | | | |
|--|---------------------|------------------|----------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Coaxial Cable | CCS | N/A | SEM035-02 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |



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Radiated Spurious Emissions Below 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|--------------------------|--------------|-----------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | SEM003-33 | 2021/9/25 | 2024/9/24 |
| Loop Antenna | ETS-LINDGREN | 6502 | SEM003-36 | 2021/9/26 | 2024/9/25 |
| MXE EMI receiver | Agilent | N9038A | SEM004-05 | 2022/7/12 | 2023/7/11 |
| Pre-amplifier | HP | 8447D | SEM005-02 | 2022/7/12 | 2023/7/11 |
| Coaxial Cable | CCS | N/A | SEM035-01 | 2022/5/16 | 2023/5/15 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

Radiated Spurious Emissions Above 1GHz

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|-------------------------|--------------|-----------------|---------------|-----------|--------------|
| 3m Anechoic Chamber | CRT | N/A | SEM001-13 | 2021/7/13 | 2024/7/12 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021/9/26 | 2024/9/25 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-23 | 2022/4/24 | 2023/4/23 |
| Coaxial Cable | CCS | N/A | SEM035-02 | 2022/5/16 | 2023/5/15 |
| Pre-amplifier | TST PASS | LNA04080G30 | SEM005-27 | 2022/4/15 | 2023/4/14 |
| Pre-amplifier | TST PASS | LNA10180G45 | SEM005-28 | 2022/4/15 | 2023/4/14 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |

General used equipment

| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
|---------------------------------|--------------|-----------|---------------|-----------|--------------|
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-22 | 2022/7/12 | 2023/7/11 |
| Humidity/ Temperature Indicator | Mingle | TH607 | SEM002-23 | 2022/7/12 | 2023/7/11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2022/7/12 | 2023/7/11 |

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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 & 15.247(b)(4)

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.47 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | 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.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C

Humidity: 50.1 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

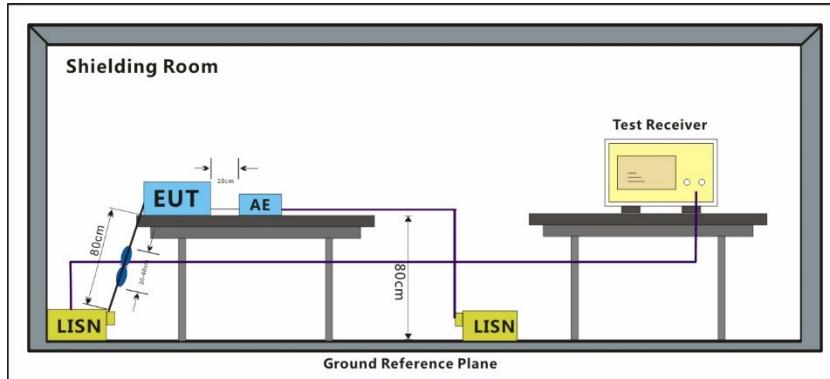
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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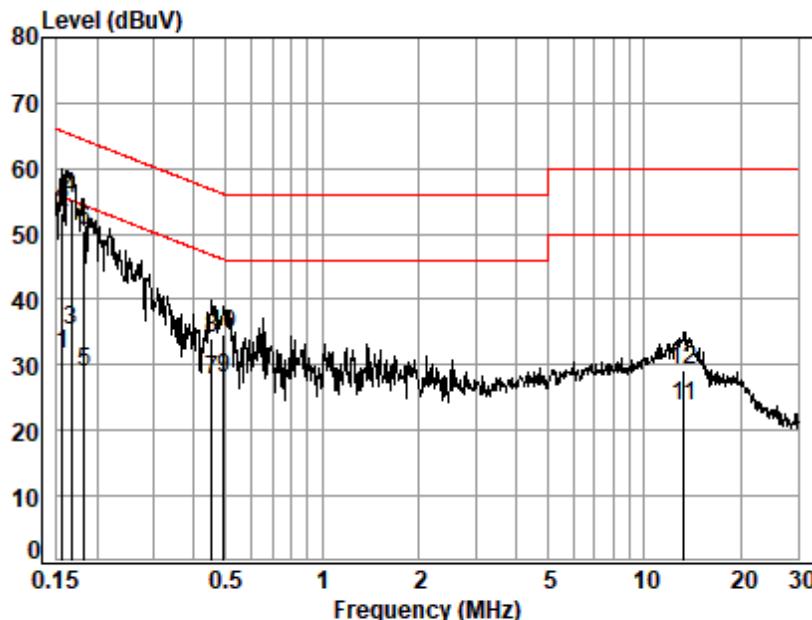
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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00024AT

Test mode: 03

: DCE230-IT

| Freq | Cable | LISN | Read | Limit | Over | Remark | |
|------|---------|------|--------|-------|-------|--------|----------------|
| | MHz | Loss | Factor | Level | Level | Line | Limit |
| 1 | 0.1557 | 0.02 | 9.81 | 21.79 | 31.62 | 55.69 | -24.07 Average |
| 2 | 0.1557 | 0.02 | 9.81 | 43.27 | 53.10 | 65.69 | -12.59 QP |
| 3 | 0.1659 | 0.02 | 9.80 | 25.54 | 35.36 | 55.16 | -19.80 Average |
| 4 | 0.1659 | 0.02 | 9.80 | 45.57 | 55.39 | 65.16 | -9.77 QP |
| 5 | 0.1825 | 0.02 | 9.79 | 19.19 | 29.00 | 54.37 | -25.37 Average |
| 6 | 0.1825 | 0.02 | 9.79 | 40.68 | 50.49 | 64.37 | -13.88 QP |
| 7 | 0.4539 | 0.02 | 9.83 | 17.76 | 27.61 | 46.80 | -19.19 Average |
| 8 | 0.4539 | 0.02 | 9.83 | 24.26 | 34.11 | 56.80 | -22.69 QP |
| 9 | 0.4941 | 0.01 | 9.84 | 18.27 | 28.12 | 46.10 | -17.98 Average |
| 10 | 0.4941 | 0.01 | 9.84 | 24.92 | 34.77 | 56.10 | -21.33 QP |
| 11 | 13.2667 | 0.04 | 9.80 | 13.89 | 23.73 | 50.00 | -26.27 Average |
| 12 | 13.2667 | 0.04 | 9.80 | 19.37 | 29.21 | 60.00 | -30.79 QP |

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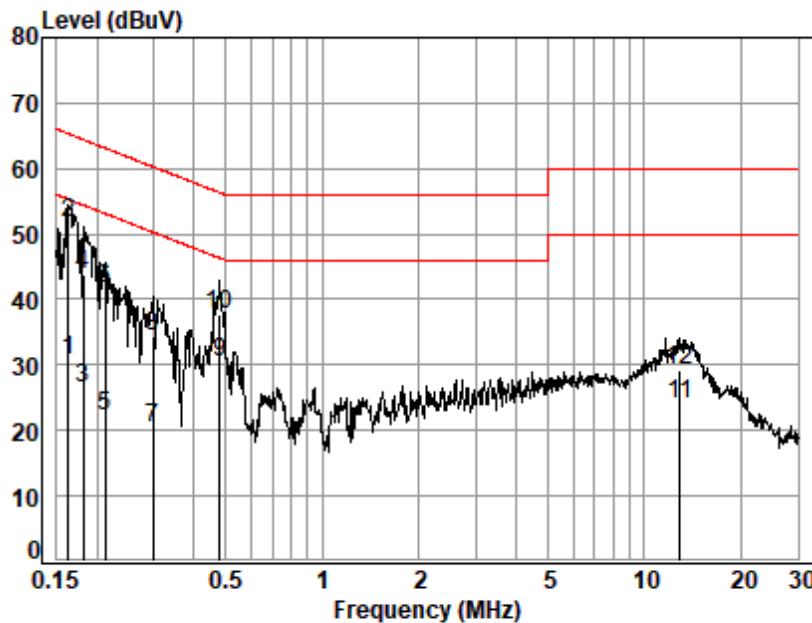
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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00024AT

Test mode: 03

: DXE231

| Freq | Cable | LISN | Read | Limit | | Over | Remark |
|------|---------|------|--------|-------|-------|-------|----------------|
| | MHz | Loss | Factor | Level | Level | Line | |
| 1 | 0.1624 | 0.02 | 9.81 | 20.83 | 30.66 | 55.34 | -24.68 Average |
| 2 | 0.1624 | 0.02 | 9.81 | 41.81 | 51.64 | 65.34 | -13.70 QP |
| 3 | 0.1815 | 0.02 | 9.79 | 16.79 | 26.60 | 54.42 | -27.82 Average |
| 4 | 0.1815 | 0.02 | 9.79 | 34.02 | 43.83 | 64.42 | -20.59 QP |
| 5 | 0.2117 | 0.02 | 9.77 | 12.49 | 22.28 | 53.14 | -30.86 Average |
| 6 | 0.2117 | 0.02 | 9.77 | 31.86 | 41.65 | 63.14 | -21.49 QP |
| 7 | 0.2987 | 0.03 | 9.78 | 10.45 | 20.26 | 50.28 | -30.02 Average |
| 8 | 0.2987 | 0.03 | 9.78 | 24.62 | 34.43 | 60.28 | -25.85 QP |
| 9 | 0.4812 | 0.01 | 9.84 | 20.67 | 30.52 | 46.32 | -15.80 Average |
| 10 | 0.4812 | 0.01 | 9.84 | 27.89 | 37.74 | 56.32 | -18.58 QP |
| 11 | 12.8516 | 0.04 | 9.80 | 14.15 | 23.99 | 50.00 | -26.01 Average |
| 12 | 12.8516 | 0.04 | 9.80 | 19.22 | 29.06 | 60.00 | -30.94 QP |

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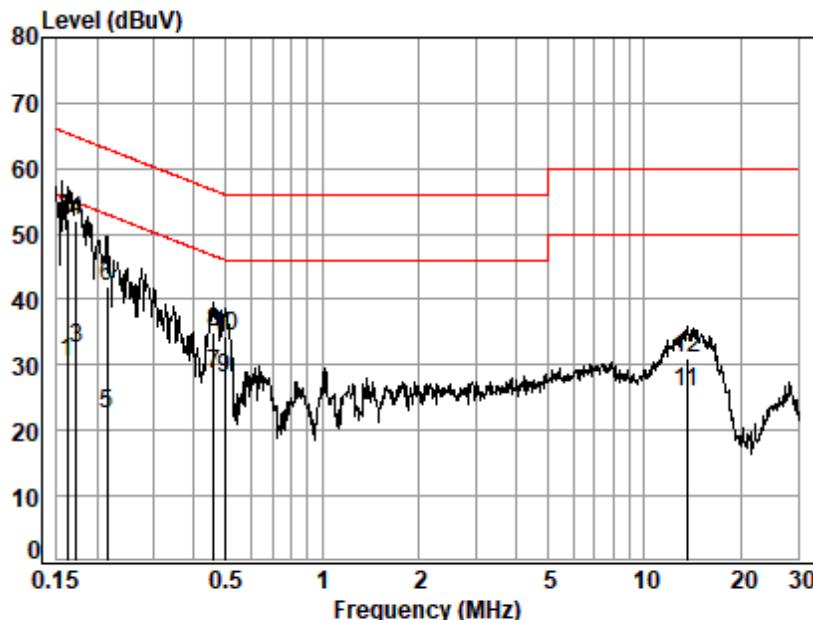
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Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00024AT

Test mode: 03

: DCE230-IT

| Freq | Cable | LISN | Read | Limit | | Over | Remark |
|------|---------|------|--------|-------|-------|-------|----------------|
| | MHz | Loss | Factor | Level | Level | Line | |
| 1 | 0.1615 | 0.02 | 9.86 | 20.51 | 30.39 | 55.38 | -24.99 Average |
| 2 | 0.1615 | 0.02 | 9.86 | 42.43 | 52.31 | 65.38 | -13.07 QP |
| 3 | 0.1722 | 0.02 | 9.86 | 22.66 | 32.54 | 54.86 | -22.32 Average |
| 4 | 0.1722 | 0.02 | 9.86 | 42.11 | 51.99 | 64.86 | -12.87 QP |
| 5 | 0.2151 | 0.02 | 9.86 | 12.53 | 22.41 | 53.01 | -30.60 Average |
| 6 | 0.2151 | 0.02 | 9.86 | 32.16 | 42.04 | 63.01 | -20.97 QP |
| 7 | 0.4612 | 0.02 | 9.79 | 18.91 | 28.72 | 46.67 | -17.95 Average |
| 8 | 0.4612 | 0.02 | 9.79 | 25.12 | 34.93 | 56.67 | -21.74 QP |
| 9 | 0.4994 | 0.01 | 9.79 | 18.05 | 27.85 | 46.01 | -18.16 Average |
| 10 | 0.4994 | 0.01 | 9.79 | 24.56 | 34.36 | 56.01 | -21.65 QP |
| 11 | 13.5509 | 0.04 | 9.83 | 16.00 | 25.87 | 50.00 | -24.13 Average |
| 12 | 13.5509 | 0.04 | 9.83 | 21.01 | 30.88 | 60.00 | -29.12 QP |

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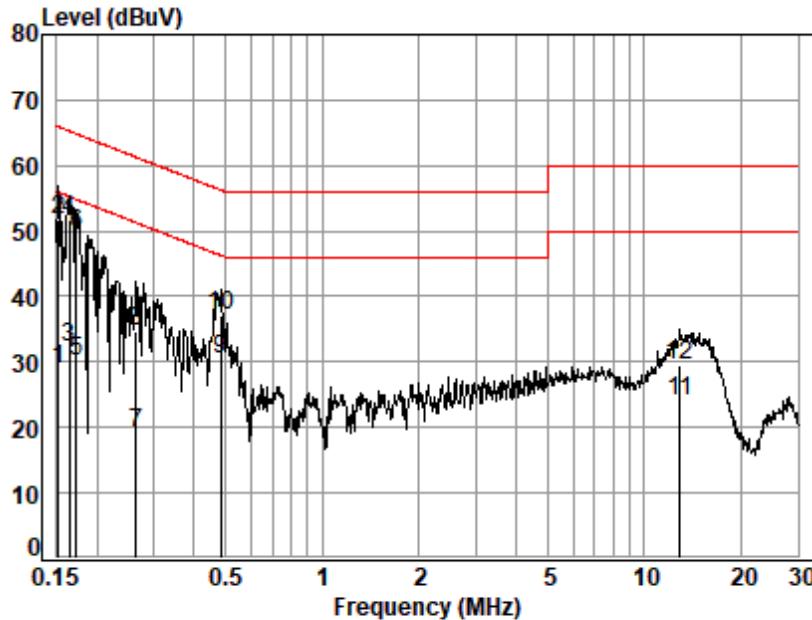
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00024AT

Test mode: 03

: DXE231

| Freq | Cable | LISN | Read | Limit | | Over | Remark |
|------|---------|------|--------|-------|-------|-------|----------------|
| | Freq | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB |
| 1 | 0.1516 | 0.02 | 9.86 | 19.00 | 28.88 | 55.91 | -27.03 Average |
| 2 | 0.1516 | 0.02 | 9.86 | 41.88 | 51.76 | 65.91 | -14.15 QP |
| 3 | 0.1641 | 0.02 | 9.86 | 22.26 | 32.14 | 55.25 | -23.11 Average |
| 4 | 0.1641 | 0.02 | 9.86 | 41.83 | 51.71 | 65.25 | -13.54 QP |
| 5 | 0.1731 | 0.02 | 9.86 | 20.29 | 30.17 | 54.81 | -24.64 Average |
| 6 | 0.1731 | 0.02 | 9.86 | 39.64 | 49.52 | 64.81 | -15.29 QP |
| 7 | 0.2644 | 0.03 | 9.84 | 9.23 | 19.10 | 51.29 | -32.19 Average |
| 8 | 0.2644 | 0.03 | 9.84 | 24.91 | 34.78 | 61.29 | -26.51 QP |
| 9 | 0.4837 | 0.01 | 9.79 | 20.75 | 30.55 | 46.27 | -15.72 Average |
| 10 | 0.4837 | 0.01 | 9.79 | 27.40 | 37.20 | 56.27 | -19.07 QP |
| 11 | 12.9199 | 0.04 | 9.83 | 14.30 | 24.17 | 50.00 | -25.83 Average |
| 12 | 12.9199 | 0.04 | 9.83 | 19.54 | 29.41 | 60.00 | -30.59 QP |

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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| 902-928 | 1 for ≥ 50 hopping channels |
| | 0.25 for $25 \leq$ hopping channels < 50 |
| | 1 for digital modulation |
| 2400-2483.5 | 1 for ≥ 75 non-overlapping hopping channels |
| | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

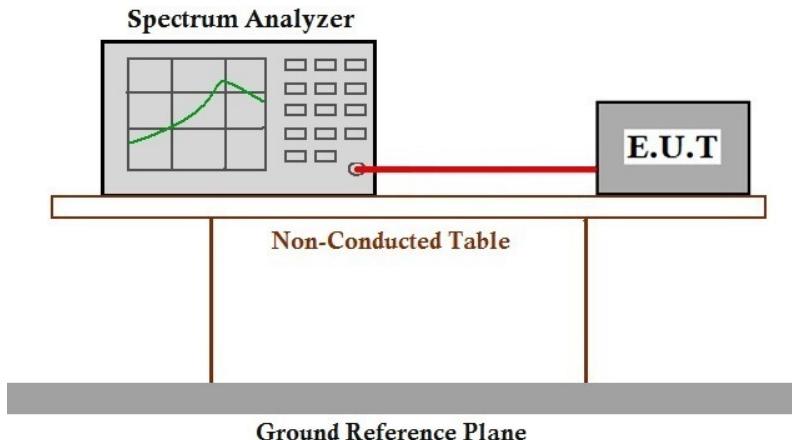
Humidity: 36.2 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 03 | TX mode(1Mbps)Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

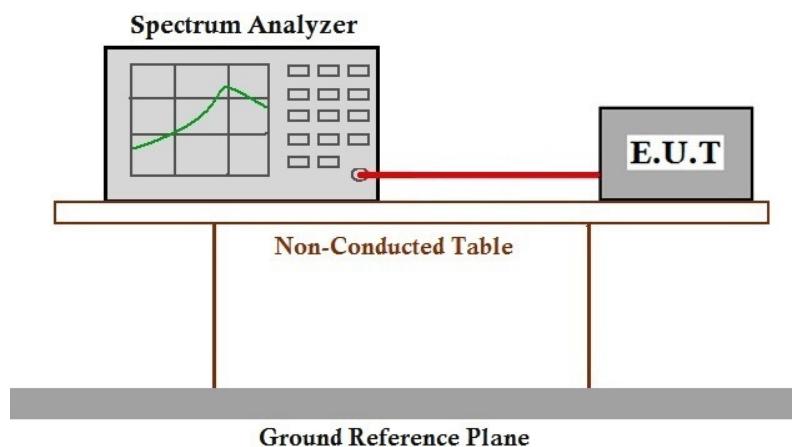
Limit: ≥ 500 kHz**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 24.8 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.3.3 Test Setup Diagram**7.3.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

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7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

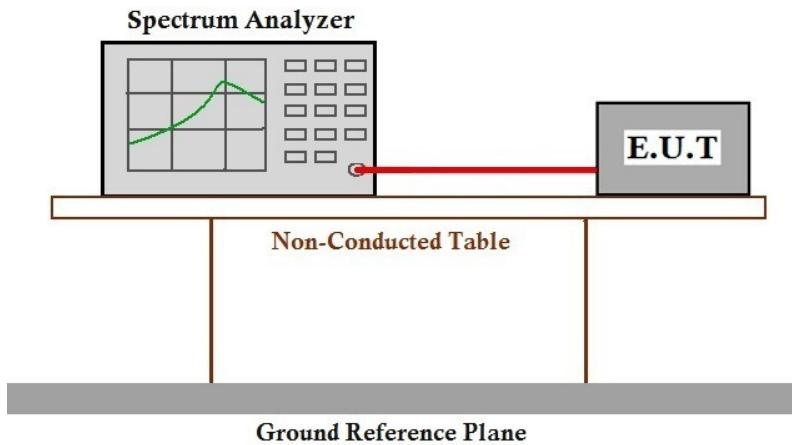
Humidity: 36.2 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

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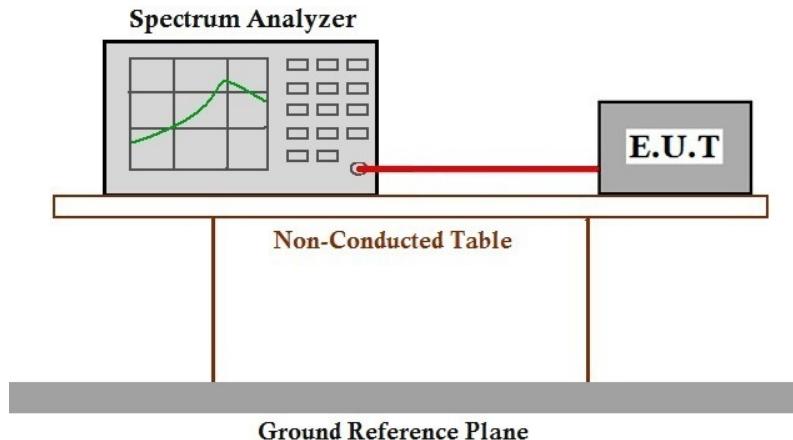
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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

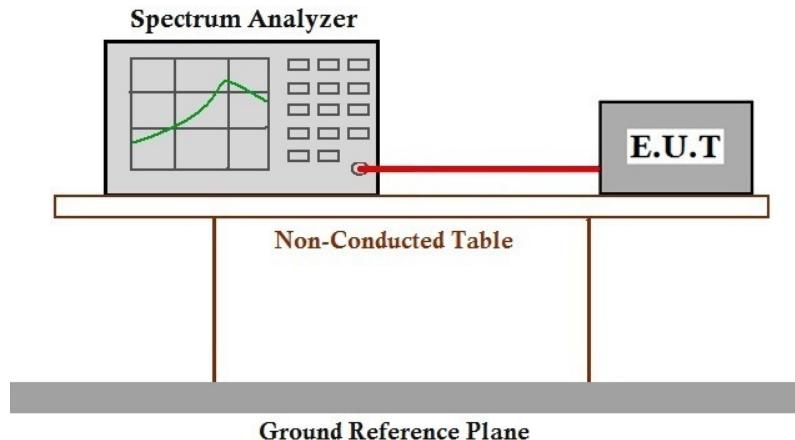
| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

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7.6.3 Test Setup Diagram**7.6.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar



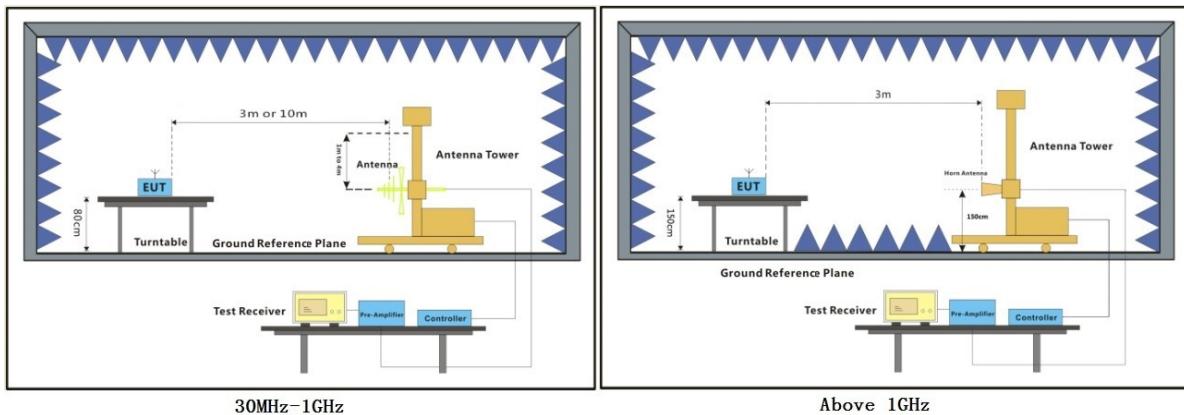
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7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.7.3 Test Setup Diagram

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7.7.4 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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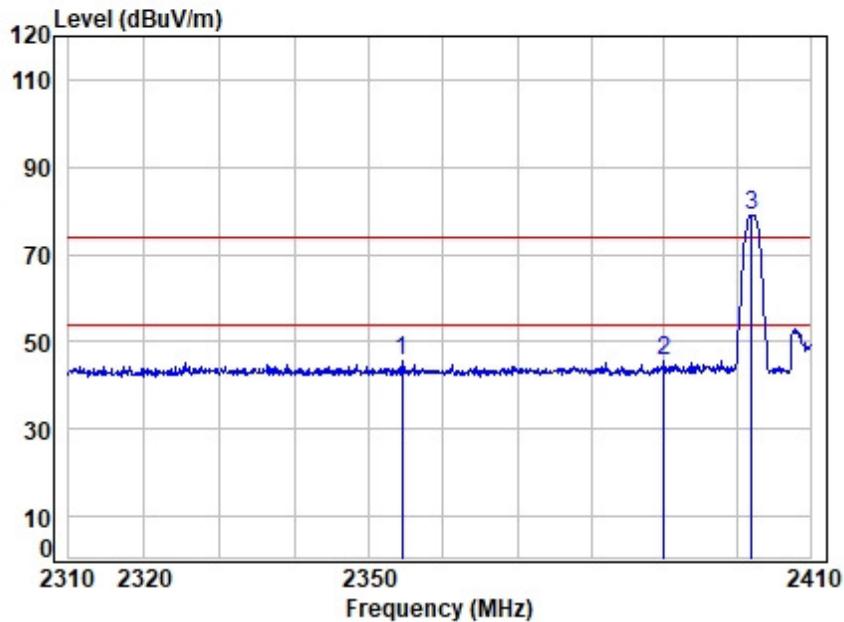
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2402 Band edge
Note : BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Level | Line Level | Over Limit | Over Remark |
|--------------|------------|------------|---------------|-------|-------------|------------|------------|-------------|
| | | | | dB | dB/m | dB | dBuV | dBuV/m |
| 1 2354.376 | 5.03 | 27.08 | 32.50 | 45.82 | 45.43 | 74.00 | -28.57 | peak |
| 2 2390.000 | 5.05 | 27.16 | 32.50 | 46.06 | 45.77 | 74.00 | -28.23 | peak |
| 3 . 2402.000 | 5.06 | 27.18 | 32.50 | 79.39 | 79.13 | 74.00 | 5.13 | peak |

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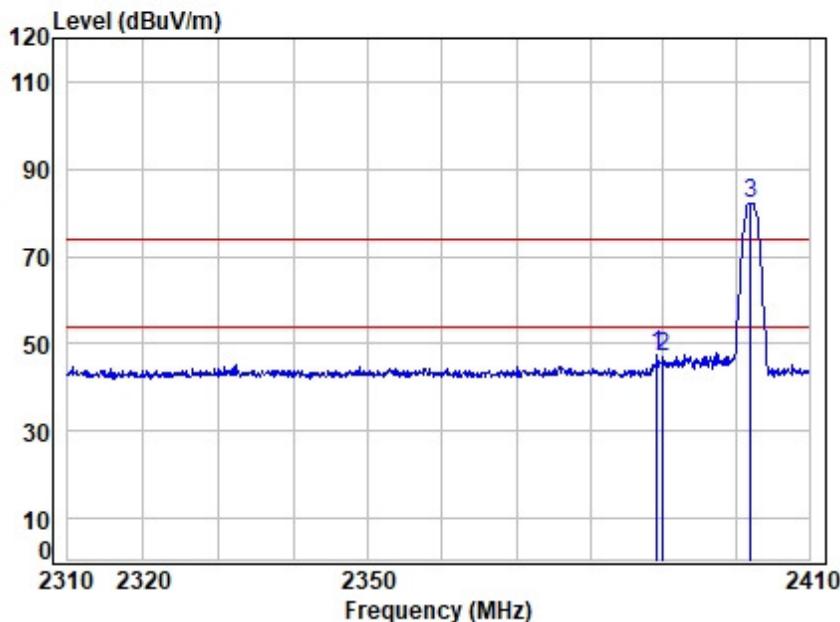
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00024AT

Mode : 2402 Band edge

Note : BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|--------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 2389.153 | 5.05 | 27.16 | 32.50 | 47.80 | 47.51 | 74.00 | -26.49 | peak | |
| 2 2390.000 | 5.05 | 27.16 | 32.50 | 47.42 | 47.13 | 74.00 | -26.87 | peak | |
| 3 . 2402.000 | 5.06 | 27.18 | 32.50 | 82.61 | 82.35 | 74.00 | 8.35 | peak | |

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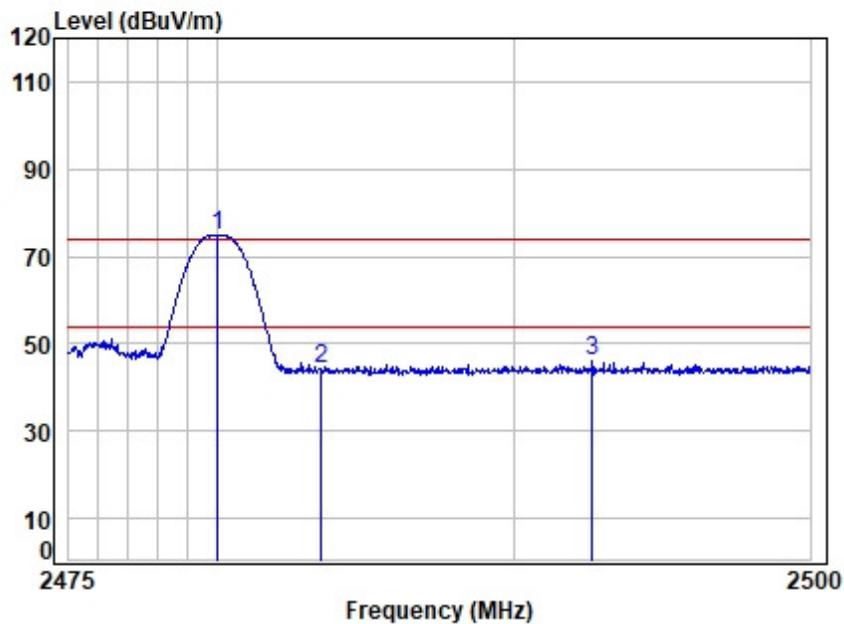
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2480 Band edge
Note : BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|--------------|------------|------------|---------------|------------|-------------|------------|------------|--------|--|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 . 2480.000 | 5.12 | 27.36 | 32.50 | 74.87 | 74.85 | 74.00 | 0.85 | peak | |
| 2 2483.500 | 5.12 | 27.36 | 32.50 | 44.40 | 44.38 | 74.00 | -29.62 | peak | |
| 3 2492.624 | 5.12 | 27.38 | 32.50 | 45.92 | 45.92 | 74.00 | -28.08 | peak | |

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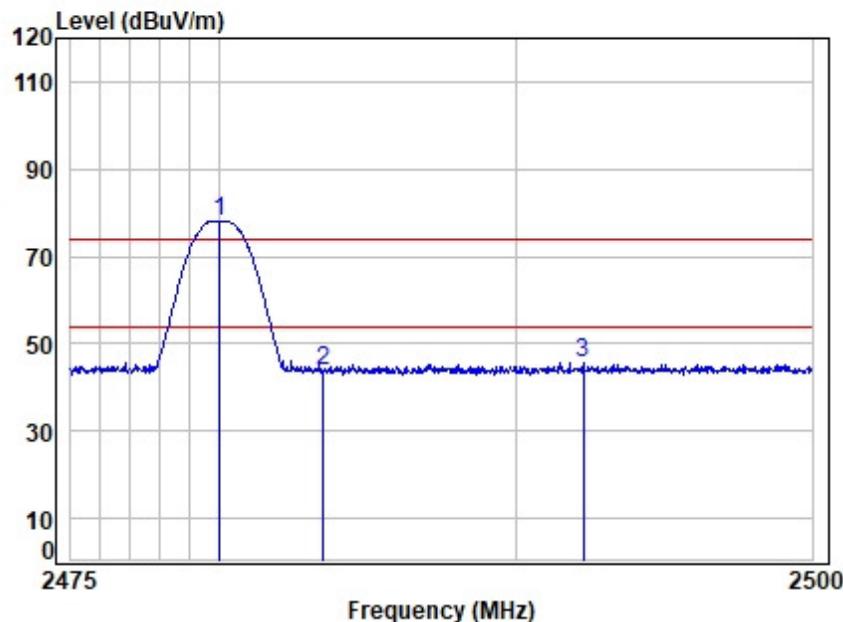
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00024AT

Mode : 2480 Band edge

Note : BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over | Remark |
|--------------|------------|------------|---------------|------------|-------------|------------|--------|--------|
| | | | | | | | dB | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 . 2480.000 | 5.12 | 27.36 | 32.50 | 78.13 | 78.11 | 74.00 | 4.11 | peak |
| 2 2483.500 | 5.12 | 27.36 | 32.50 | 43.67 | 43.65 | 74.00 | -30.35 | peak |
| 3 2492.248 | 5.12 | 27.38 | 32.50 | 45.71 | 45.71 | 74.00 | -28.29 | peak |

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7.8 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Measurement Distance: 3m

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 |
| 960-1000 | 500 | 3 |

7.8.1 E.U.T. Operation

Operating Environment:

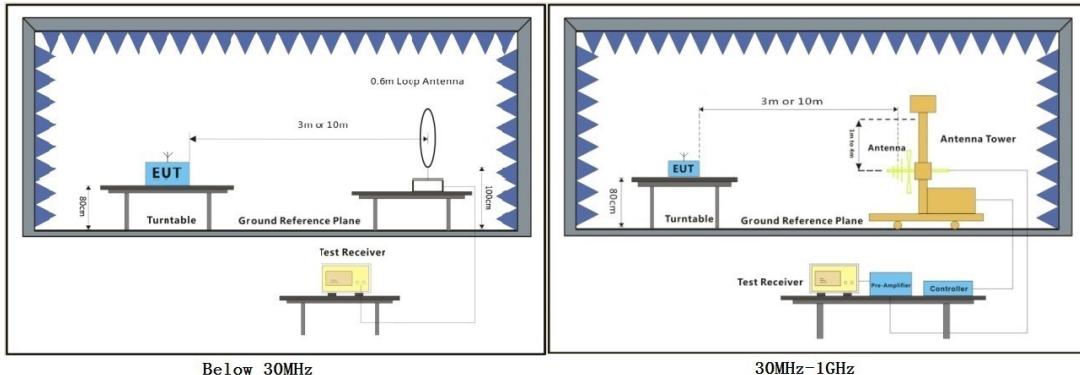
Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.8.3 Test Setup Diagram

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7.8.4 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. 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.
- 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 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance 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.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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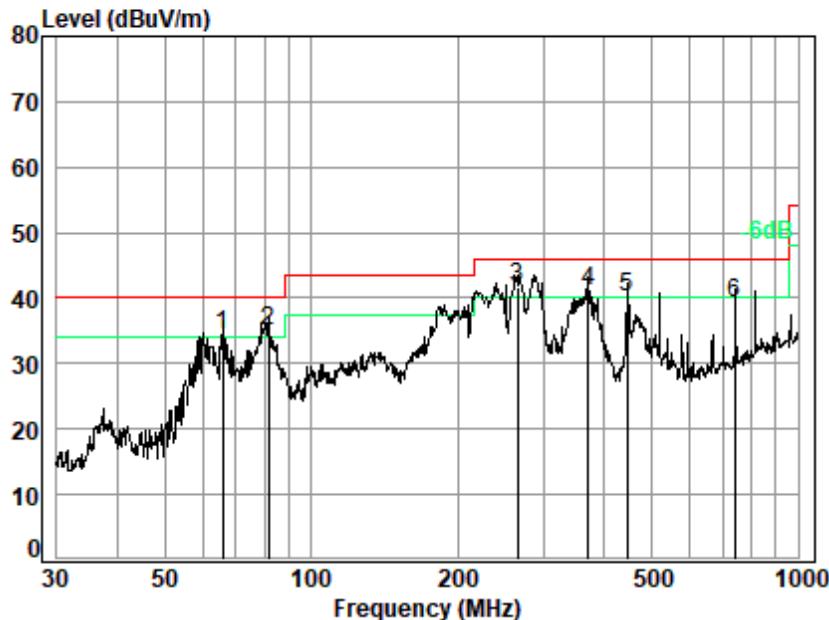
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Test Mode: 03; Polarity: Horizontal Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 03
: DCE230-IT

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|---------|--------|--------|-------|--------|--------|----------------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 65.803 | 0.27 | 16.49 | 25.88 | 43.56 | 34.44 | 40.00 -5.56 QP |
| 2 | 81.783 | 0.51 | 14.26 | 25.78 | 46.10 | 35.09 | 40.00 -4.91 QP |
| 3 | 265.676 | 0.90 | 17.05 | 25.42 | 49.08 | 41.61 | 46.00 -4.39 QP |
| 4 | 370.702 | 1.59 | 19.87 | 25.44 | 45.02 | 41.04 | 46.00 -4.96 QP |
| 5 | 444.851 | 1.51 | 21.63 | 25.48 | 42.56 | 40.22 | 46.00 -5.78 QP |
| 6 | 742.259 | 1.85 | 26.10 | 24.41 | 35.76 | 39.30 | 46.00 -6.70 QP |

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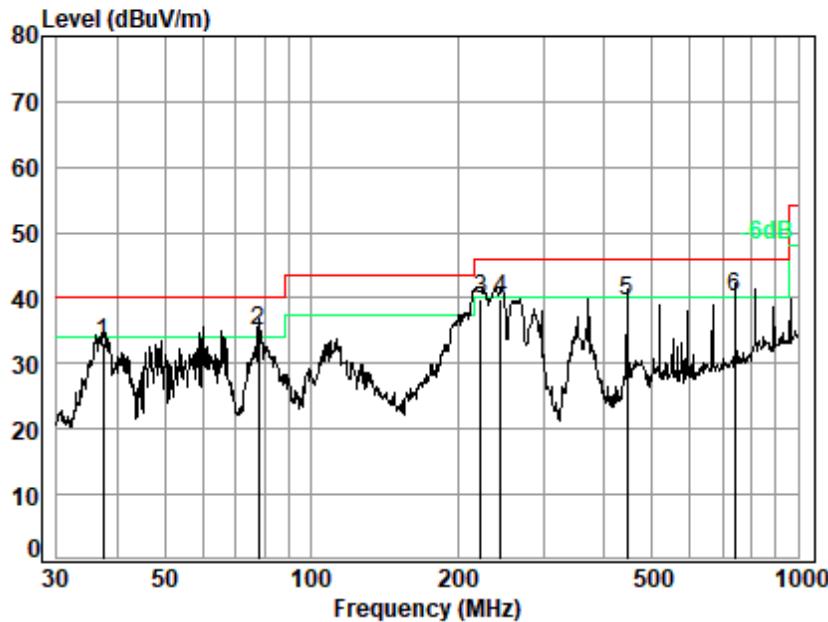
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Test Mode: 03; Polarity: Vertical Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00024AT
Mode : 03
: DCE230-IT

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|-----------|-------|--------|--------|-------|--------|--------|----------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 37.285 | 0.19 | 16.13 | 26.02 | 42.83 | 33.13 | 40.00 | -6.87 QP |
| 2 77.865 | 0.44 | 14.50 | 25.81 | 45.76 | 34.89 | 40.00 | -5.11 QP |
| 3 222.950 | 0.77 | 15.90 | 25.45 | 48.54 | 39.76 | 46.00 | -6.24 QP |
| 4 245.090 | 0.84 | 16.61 | 25.44 | 47.69 | 39.70 | 46.00 | -6.30 QP |
| 5 444.851 | 1.51 | 21.63 | 25.48 | 41.79 | 39.45 | 46.00 | -6.55 QP |
| 6 742.259 | 1.85 | 26.10 | 24.41 | 36.64 | 40.18 | 46.00 | -5.82 QP |

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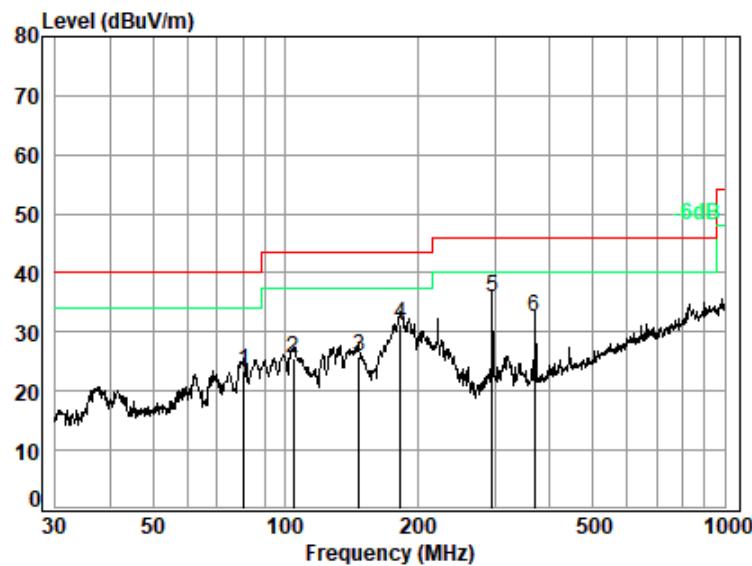
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Test Mode: 03; Polarity: Horizontal Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 03
: DXE231

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|---------|--------|--------|-------|--------|--------|-----------------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 80.644 | 0.49 | 14.40 | 25.79 | 34.32 | 23.42 | 40.00 -16.58 QP |
| 2 | 104.170 | 0.90 | 14.87 | 25.59 | 35.30 | 25.48 | 43.50 -18.02 QP |
| 3 | 146.888 | 0.93 | 17.43 | 25.53 | 33.08 | 25.91 | 43.50 -17.59 QP |
| 4 | 182.559 | 0.67 | 15.99 | 25.49 | 40.16 | 31.33 | 43.50 -12.17 QP |
| 5 | 296.184 | 1.00 | 18.17 | 25.40 | 42.17 | 35.94 | 46.00 -10.06 QP |
| 6 | 369.405 | 1.58 | 19.83 | 25.44 | 36.48 | 32.45 | 46.00 -13.55 QP |

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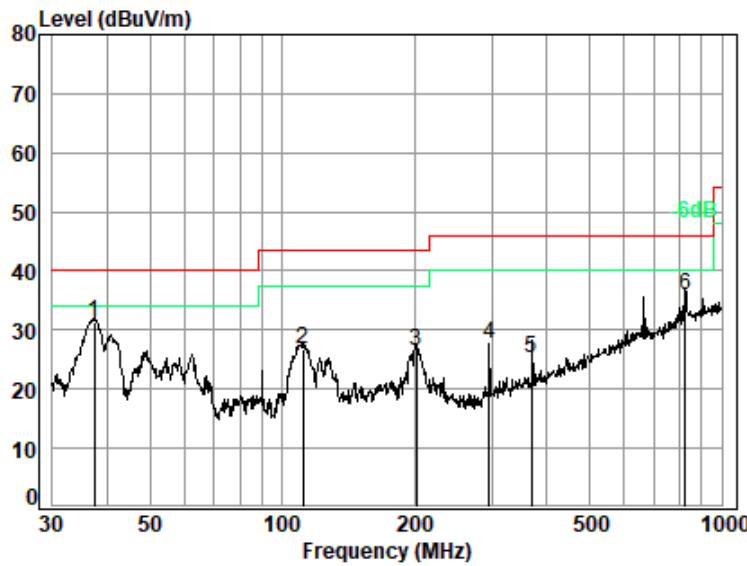
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Test Mode: 03; Polarity: Vertical Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00024AT
Mode : 03
: DXE231

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|---|---------------|-------------|------------------|---------------|----------------|--------------|---------------|-----------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 37.285 | 0.19 | 16.13 | 26.02 | 40.91 | 31.21 | 40.00 | -8.79 QP |
| 2 | 111.738 | 0.94 | 15.29 | 25.58 | 36.08 | 26.73 | 43.50 | -16.77 QP |
| 3 | 201.393 | 0.69 | 15.16 | 25.47 | 36.18 | 26.56 | 43.50 | -16.94 QP |
| 4 | 296.184 | 1.00 | 18.17 | 25.40 | 33.78 | 27.55 | 46.00 | -18.45 QP |
| 5 | 369.405 | 1.58 | 19.83 | 25.44 | 29.20 | 25.17 | 46.00 | -20.83 QP |
| 6 | 827.493 | 2.56 | 27.71 | 24.17 | 29.89 | 35.99 | 46.00 | -10.01 QP |

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7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1000 | 500 | 3 |

7.9.1 E.U.T. Operation

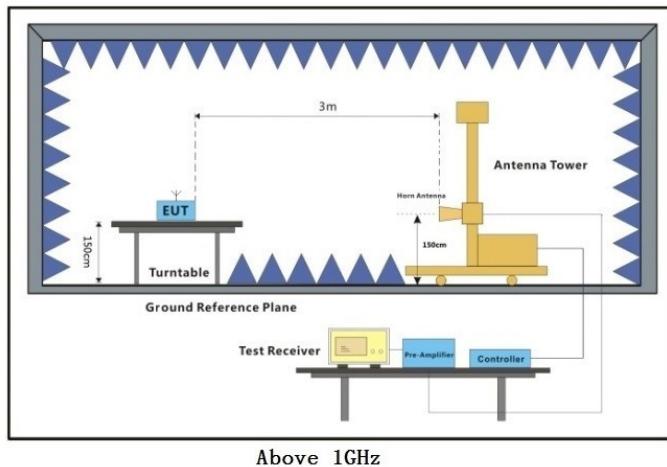
Operating Environment:

Temperature: 34.8 °C Humidity: 36.2 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 03 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

- a. 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.
- 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 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
3. As shown in this section, 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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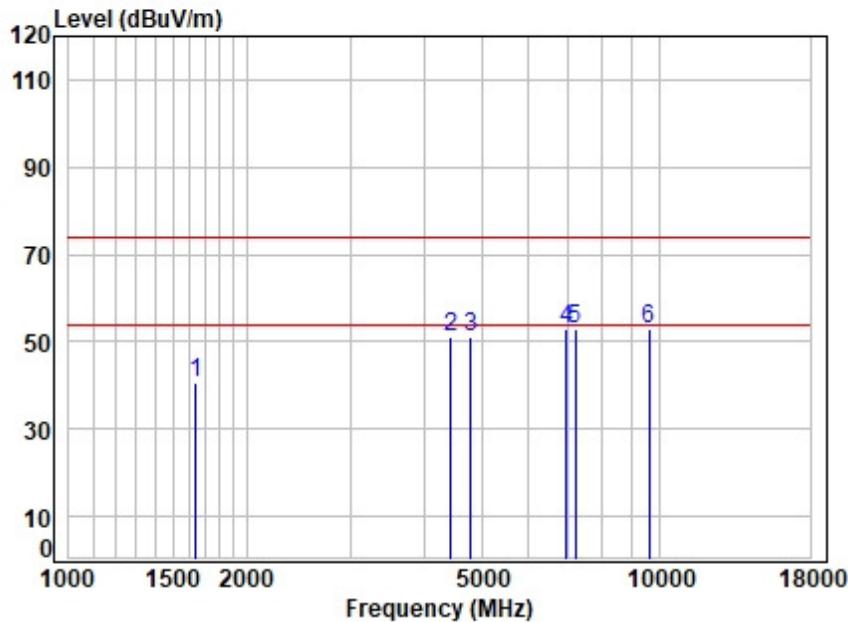
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2402 TX RSE
: BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Level | Line Level | Over Limit | Over Remark |
|------------|------------|------------|---------------|-------|-------------|------------|------------|-------------|
| | | | | dB | dB/m | dB | dBuV | dBuV/m |
| 1 1644.019 | 4.08 | 24.89 | 52.93 | 64.75 | 40.79 | 74.00 | -33.21 | peak |
| 2 4430.628 | 7.47 | 30.11 | 52.94 | 66.50 | 51.14 | 74.00 | -22.86 | peak |
| 3 4804.000 | 7.98 | 30.94 | 53.05 | 65.06 | 50.93 | 74.00 | -23.07 | peak |
| 4 6954.852 | 8.15 | 35.70 | 53.47 | 62.39 | 52.77 | 74.00 | -21.23 | peak |
| 5 7206.000 | 8.29 | 36.05 | 53.52 | 62.18 | 53.00 | 74.00 | -21.00 | peak |
| 6 9608.000 | 11.41 | 37.53 | 53.58 | 57.66 | 53.02 | 74.00 | -20.98 | peak |

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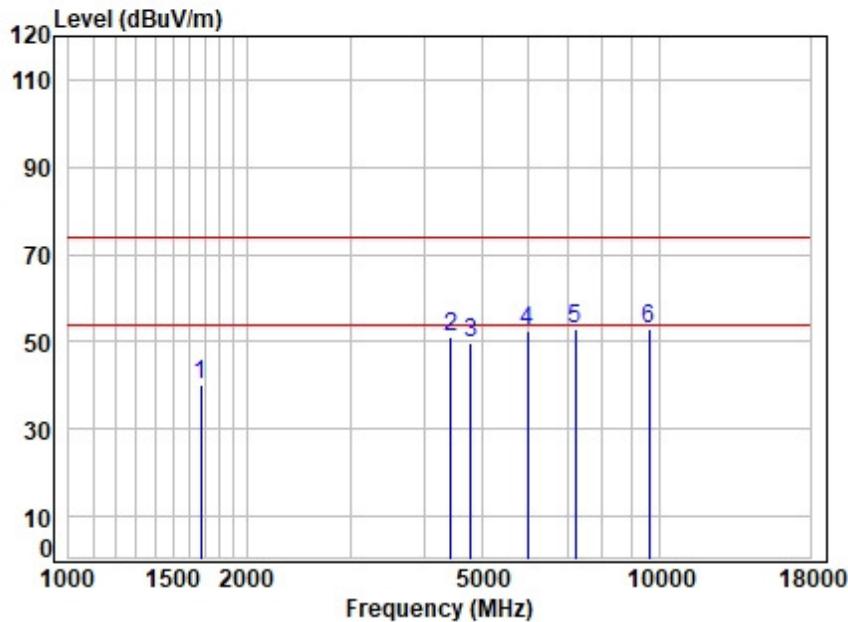
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00024AT
Mode : 2402 TX RSE
: BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 | 1672.779 | 4.14 | 24.95 | 52.95 | 63.90 | 40.04 | 74.00 | -33.96 | peak |
| 2 | 4430.628 | 7.47 | 30.11 | 52.94 | 66.44 | 51.08 | 74.00 | -22.92 | peak |
| 3 | 4804.000 | 7.98 | 30.94 | 53.05 | 63.99 | 49.86 | 74.00 | -24.14 | peak |
| 4 | 5984.305 | 7.66 | 32.41 | 52.80 | 65.20 | 52.47 | 74.00 | -21.53 | peak |
| 5 | 7206.000 | 8.29 | 36.05 | 53.52 | 62.24 | 53.06 | 74.00 | -20.94 | peak |
| 6 | 9608.000 | 11.41 | 37.53 | 53.58 | 57.74 | 53.10 | 74.00 | -20.90 | peak |

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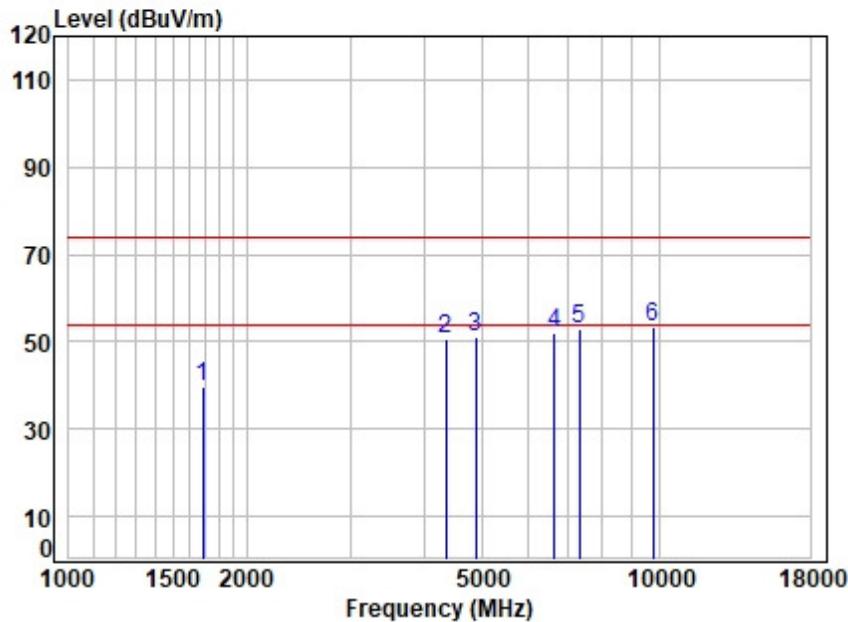
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2440 TX RSE
: BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 | 1687.347 | 4.17 | 24.98 | 52.95 | 63.54 | 39.74 | 74.00 | -34.26 | peak |
| 2 | 4354.454 | 7.48 | 30.00 | 52.91 | 66.28 | 50.85 | 74.00 | -23.15 | peak |
| 3 | 4880.000 | 8.11 | 31.12 | 53.07 | 64.94 | 51.10 | 74.00 | -22.90 | peak |
| 4 | 6640.542 | 7.84 | 34.95 | 53.26 | 62.66 | 52.19 | 74.00 | -21.81 | peak |
| 5 | 7320.000 | 8.35 | 36.19 | 53.53 | 62.13 | 53.14 | 74.00 | -20.86 | peak |
| 6 | 9760.000 | 11.30 | 37.87 | 53.43 | 57.73 | 53.47 | 74.00 | -20.53 | peak |

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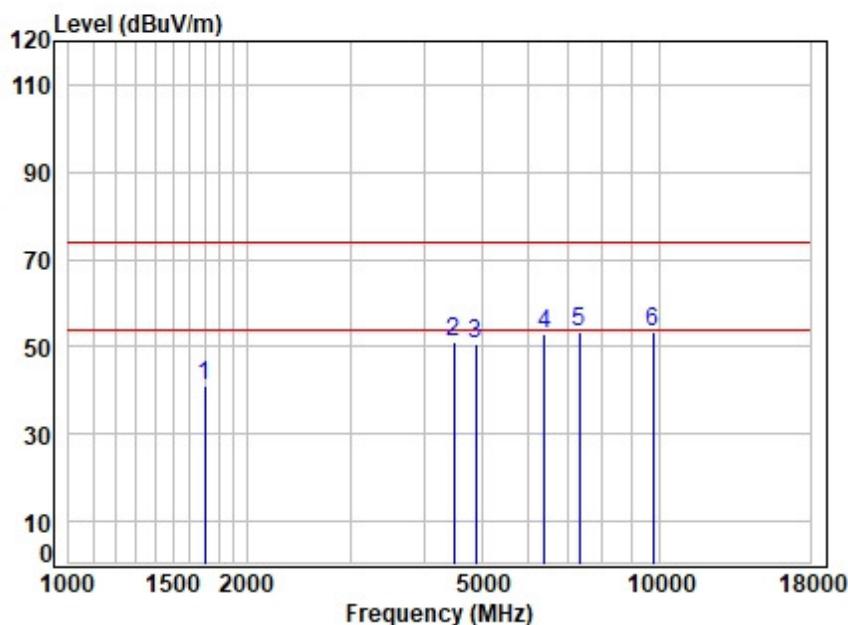
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100002402

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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00024AT
Mode : 2440 TX RSE
: BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|------|------------|------------|---------------|------------|-------------|------------|------------|--------|------|
| | | | | | | | | dB | |
| MHz | | | | | | | | | |
| 1 | 1702.042 | 4.20 | 25.01 | 52.96 | 64.78 | 41.03 | 74.00 | -32.97 | peak |
| 2 | 4495.125 | 7.47 | 30.19 | 52.96 | 66.26 | 50.96 | 74.00 | -23.04 | peak |
| 3 | 4880.000 | 8.11 | 31.12 | 53.07 | 64.63 | 50.79 | 74.00 | -23.21 | peak |
| 4 | 6395.654 | 7.69 | 34.16 | 53.09 | 64.31 | 53.07 | 74.00 | -20.93 | peak |
| 5 | 7320.000 | 8.35 | 36.19 | 53.53 | 62.23 | 53.24 | 74.00 | -20.76 | peak |
| 6 | 9760.000 | 11.30 | 37.87 | 53.43 | 57.69 | 53.43 | 74.00 | -20.57 | peak |

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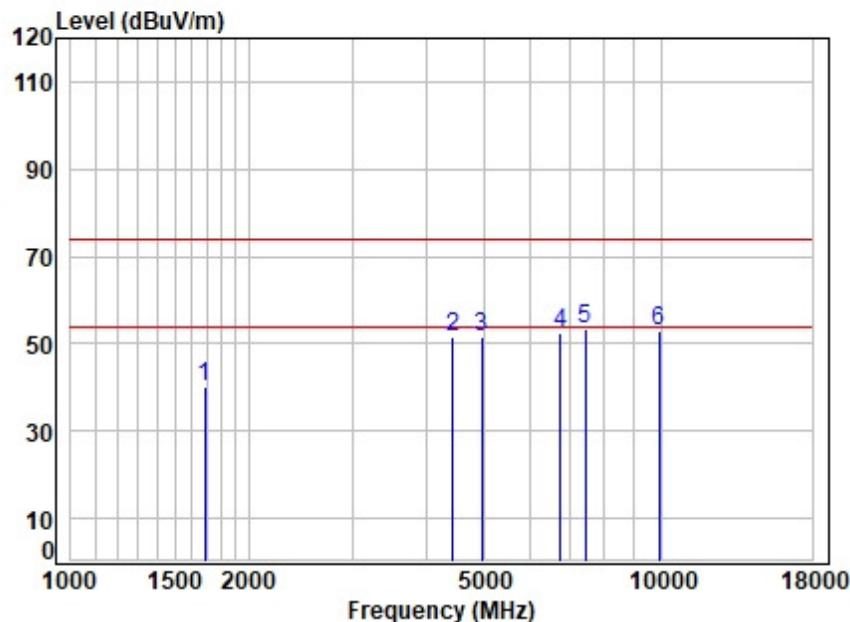
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230100002402

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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00024AT
Mode : 2480 TX RSE
: BLE

| | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit | Over Remark |
|---|---------------|-------------|------------------|---------------|----------------|---------------|---------------|----------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1687.347 | 4.17 | 24.98 | 52.95 | 64.13 | 40.33 | 74.00 | -33.67 peak |
| 2 | 4430.628 | 7.47 | 30.11 | 52.94 | 66.74 | 51.38 | 74.00 | -22.62 peak |
| 3 | 4960.000 | 8.24 | 31.31 | 53.09 | 65.13 | 51.59 | 74.00 | -22.41 peak |
| 4 | 6756.708 | 7.96 | 35.23 | 53.34 | 62.46 | 52.31 | 74.00 | -21.69 peak |
| 5 | 7440.000 | 8.40 | 36.33 | 53.55 | 61.99 | 53.17 | 74.00 | -20.83 peak |
| 6 | 9920.000 | 11.18 | 38.22 | 53.28 | 56.91 | 53.03 | 74.00 | -20.97 peak |

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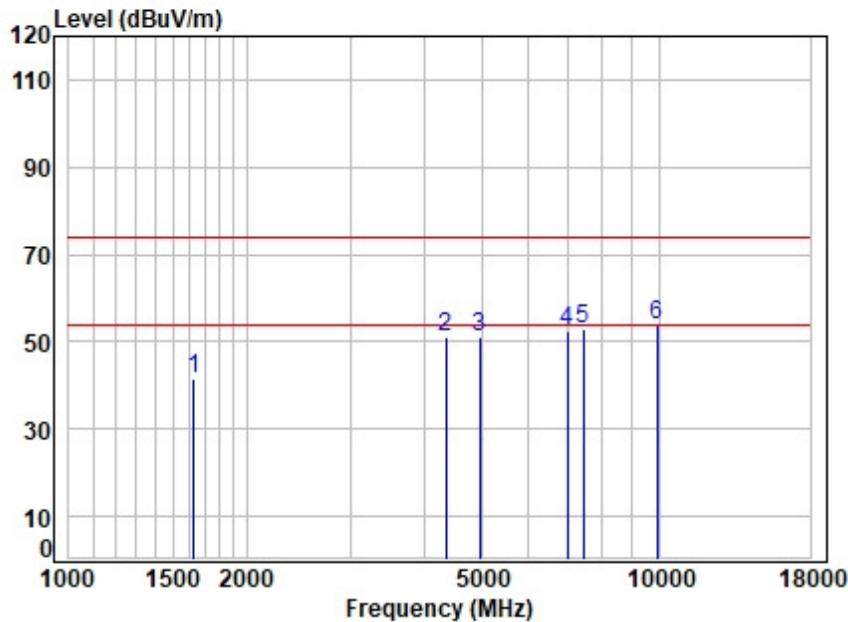
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00024AT
Mode : 2480 TX RSE
: BLE

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read | Limit Level | Line Level | Over Limit | Over Remark |
|------------|------------|------------|---------------|-------|-------------|------------|------------|-------------|
| | | | | dB | dB/m | dB | dBuV | dBuV/m |
| 1 1629.825 | 4.05 | 24.86 | 52.92 | 65.37 | 41.36 | 74.00 | -32.64 | peak |
| 2 4354.454 | 7.48 | 30.00 | 52.91 | 66.74 | 51.31 | 74.00 | -22.69 | peak |
| 3 4960.000 | 8.24 | 31.31 | 53.09 | 64.42 | 50.88 | 74.00 | -23.12 | peak |
| 4 6974.982 | 8.17 | 35.74 | 53.48 | 62.00 | 52.43 | 74.00 | -21.57 | peak |
| 5 7440.000 | 8.40 | 36.33 | 53.55 | 61.75 | 52.93 | 74.00 | -21.07 | peak |
| 6 9920.000 | 11.18 | 38.22 | 53.28 | 57.57 | 53.69 | 74.00 | -20.31 | peak |

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2301000024AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2301000024AT

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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

| Ant1 | | | | | | | |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M | SISO | 2402 | 0.401 | 0.625 | 64.16 | 1.93 | 0.03 |
| | | 2440 | 0.394 | 0.625 | 63.04 | 2.00 | 0.00 |
| | | 2480 | 0.393 | 0.625 | 62.88 | 2.01 | 0.03 |

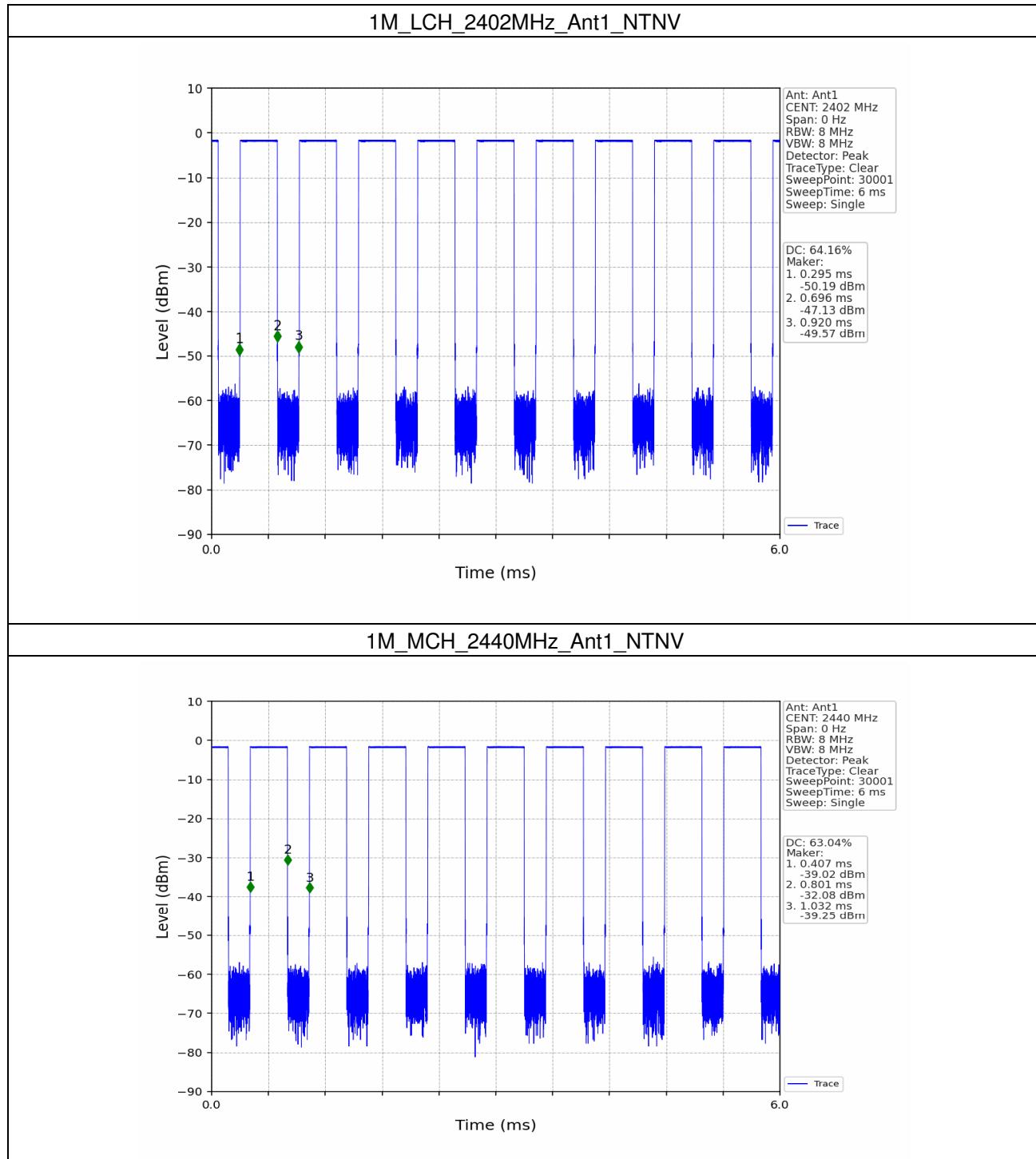


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1.1.2 Test Graph

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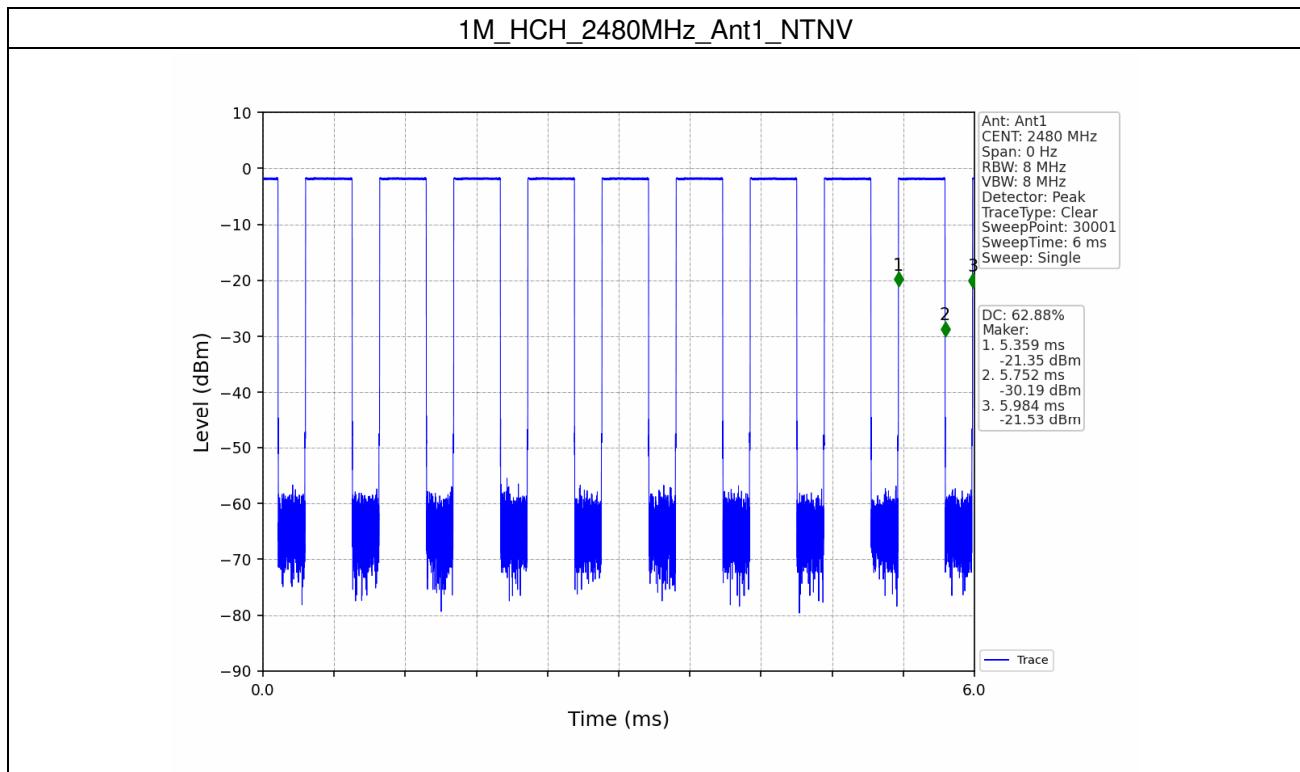
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2. Bandwidth**2.1 OBW****2.1.1 Test Result**

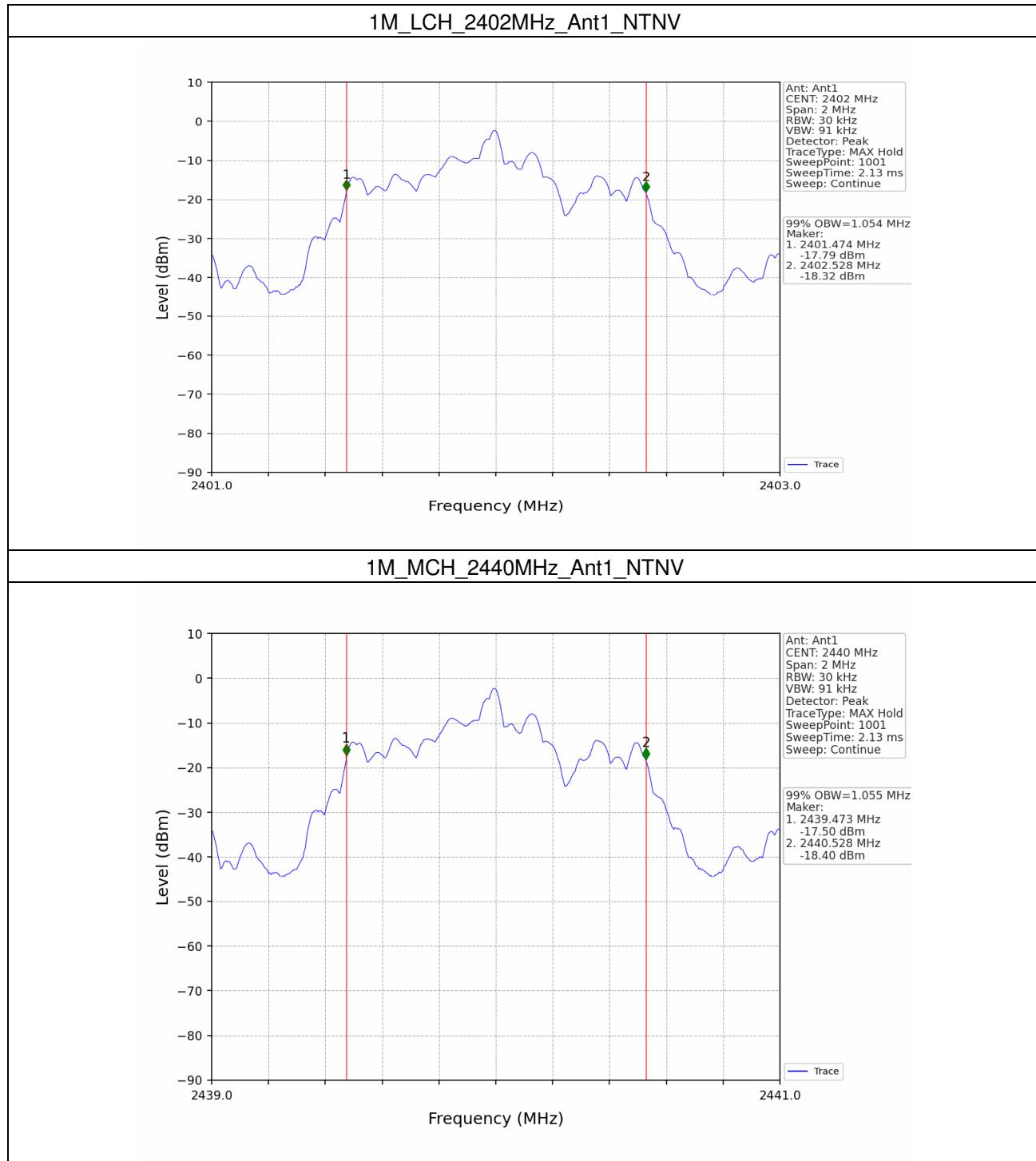
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
| | | | | Result | |
| 1M | SISO | 2402 | 1 | 1.054 | Pass |
| | | 2440 | 1 | 1.055 | Pass |
| | | 2480 | 1 | 1.054 | Pass |



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2.1.2 Test Graph

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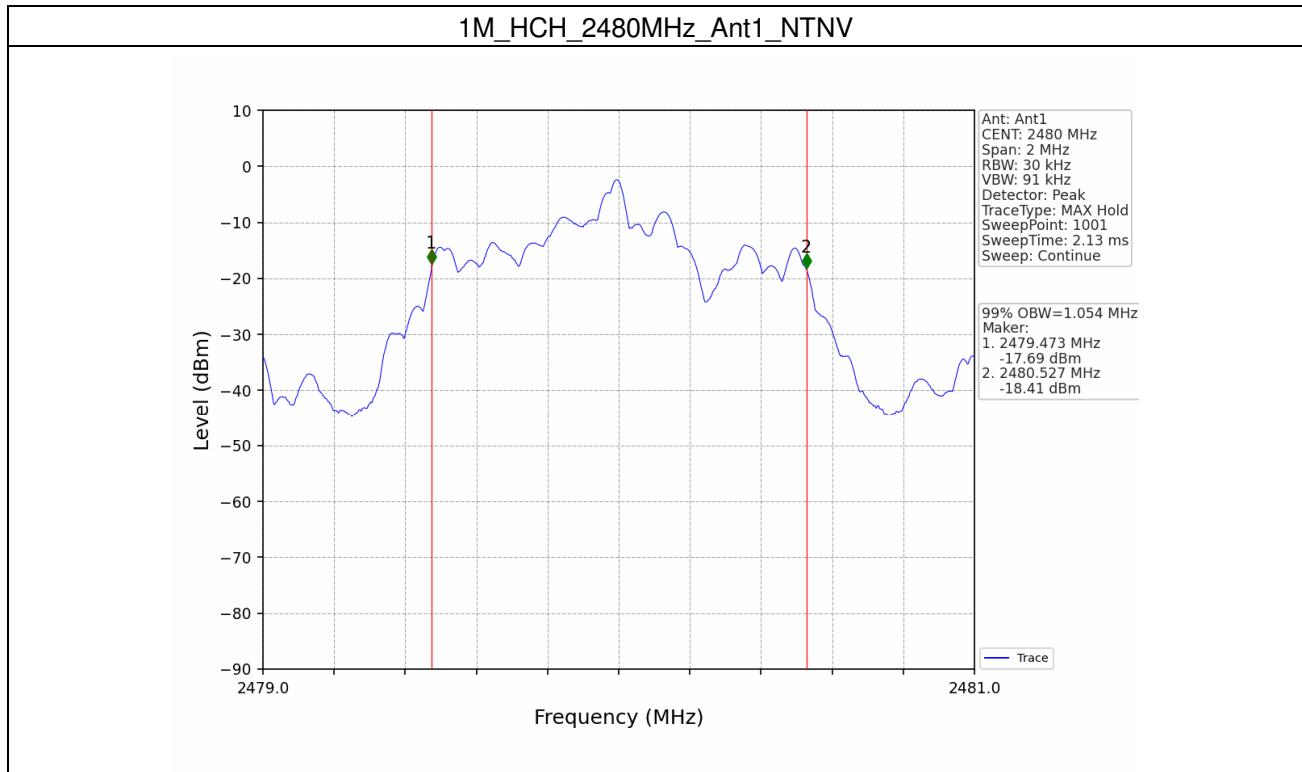
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2.2 6dB BW**2.2.1 Test Result**

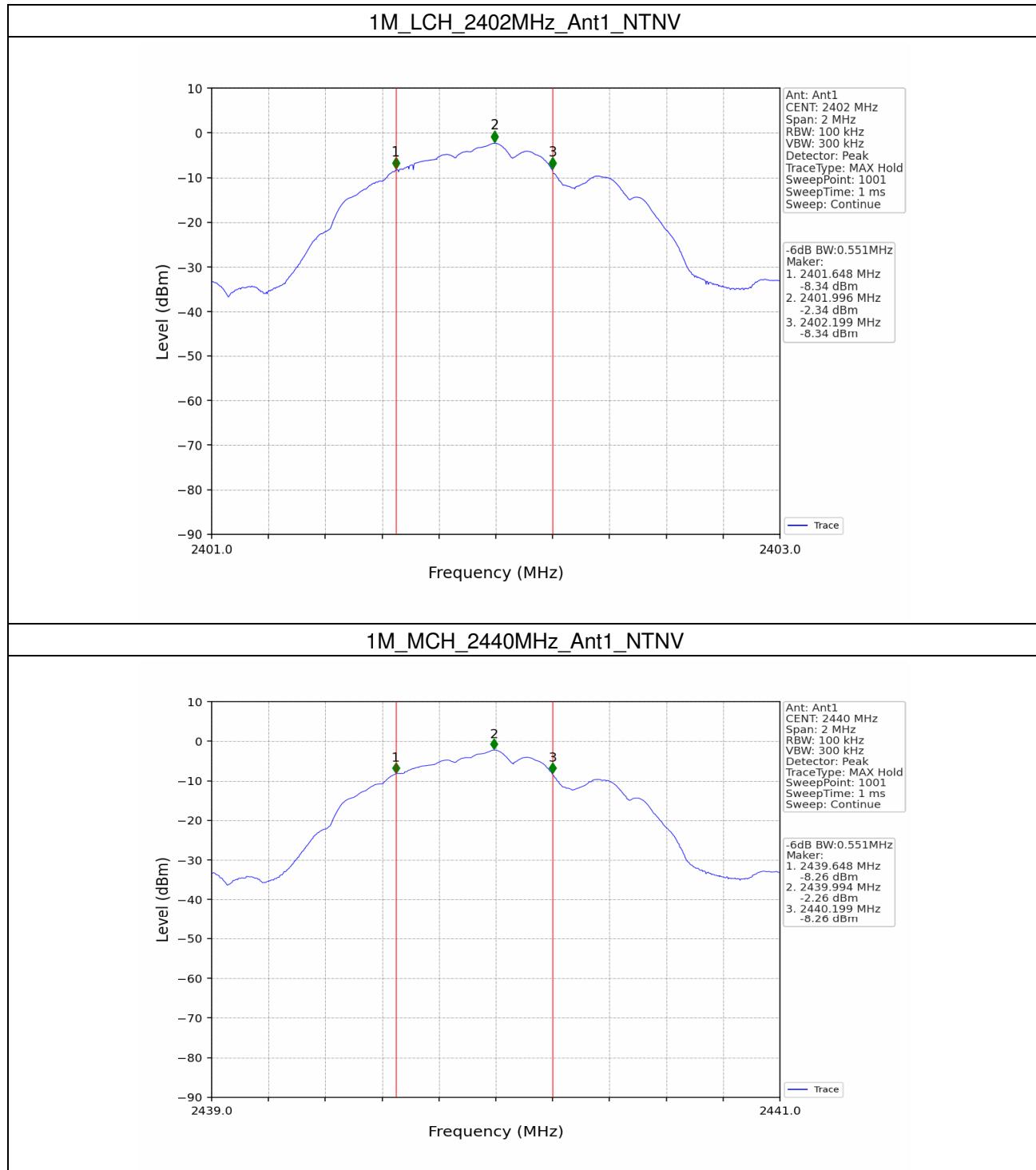
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 0.551 | >=0.5 | Pass |
| | | 2440 | 1 | 0.551 | >=0.5 | Pass |
| | | 2480 | 1 | 0.550 | >=0.5 | Pass |



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2.2.2 Test Graph

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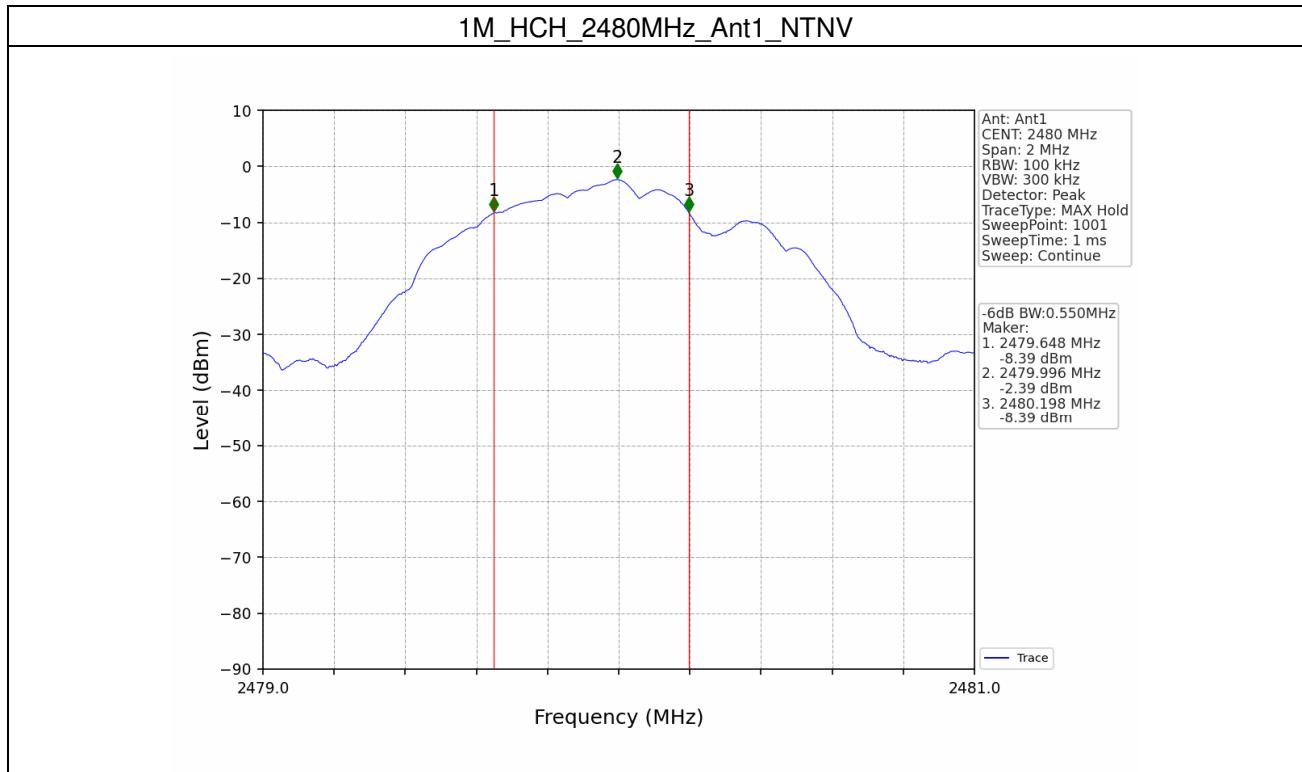
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|------|---------|-----------------|---|-------|---------|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -1.73 | <=30 | Pass |
| | | 2440 | -1.67 | <=30 | Pass |
| | | 2480 | -1.80 | <=30 | Pass |

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

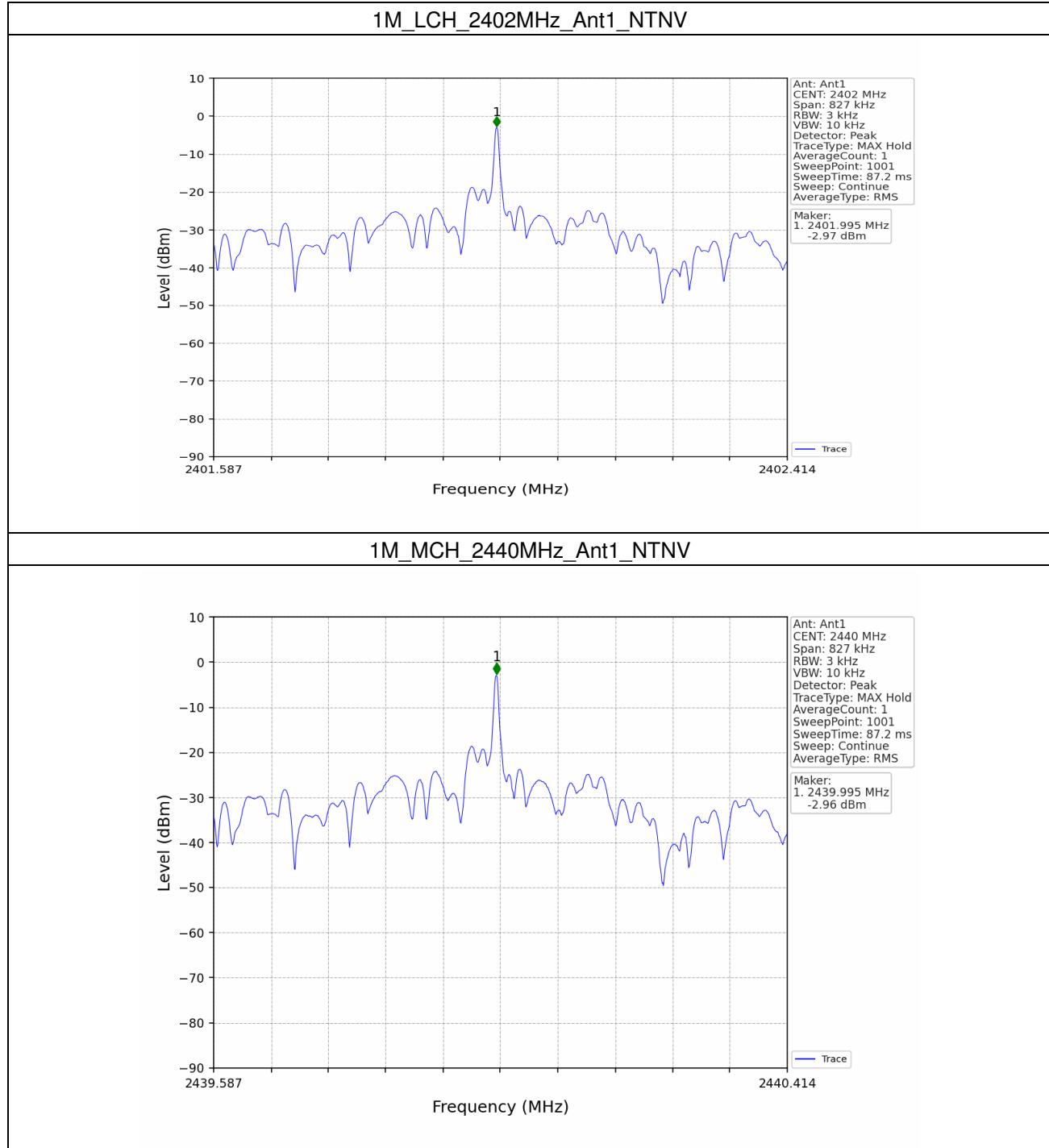
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -2.97 | <=8 | Pass |
| | | 2440 | -2.96 | <=8 | Pass |
| | | 2480 | -3.02 | <=8 | Pass |

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4.1.2 Test Graph

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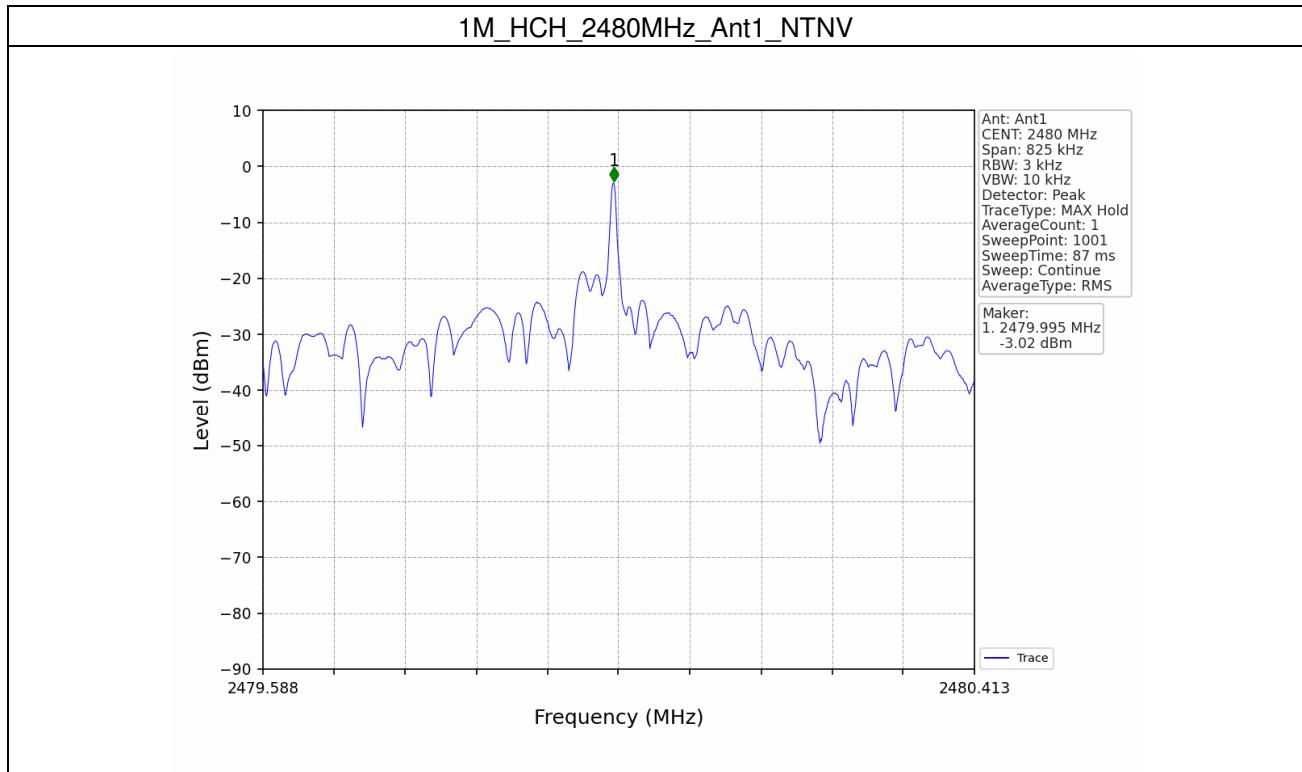
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M | SISO | 2402 | 1 | -2.35 |
| | | 2440 | 1 | -2.27 |
| | | 2480 | 1 | -2.39 |



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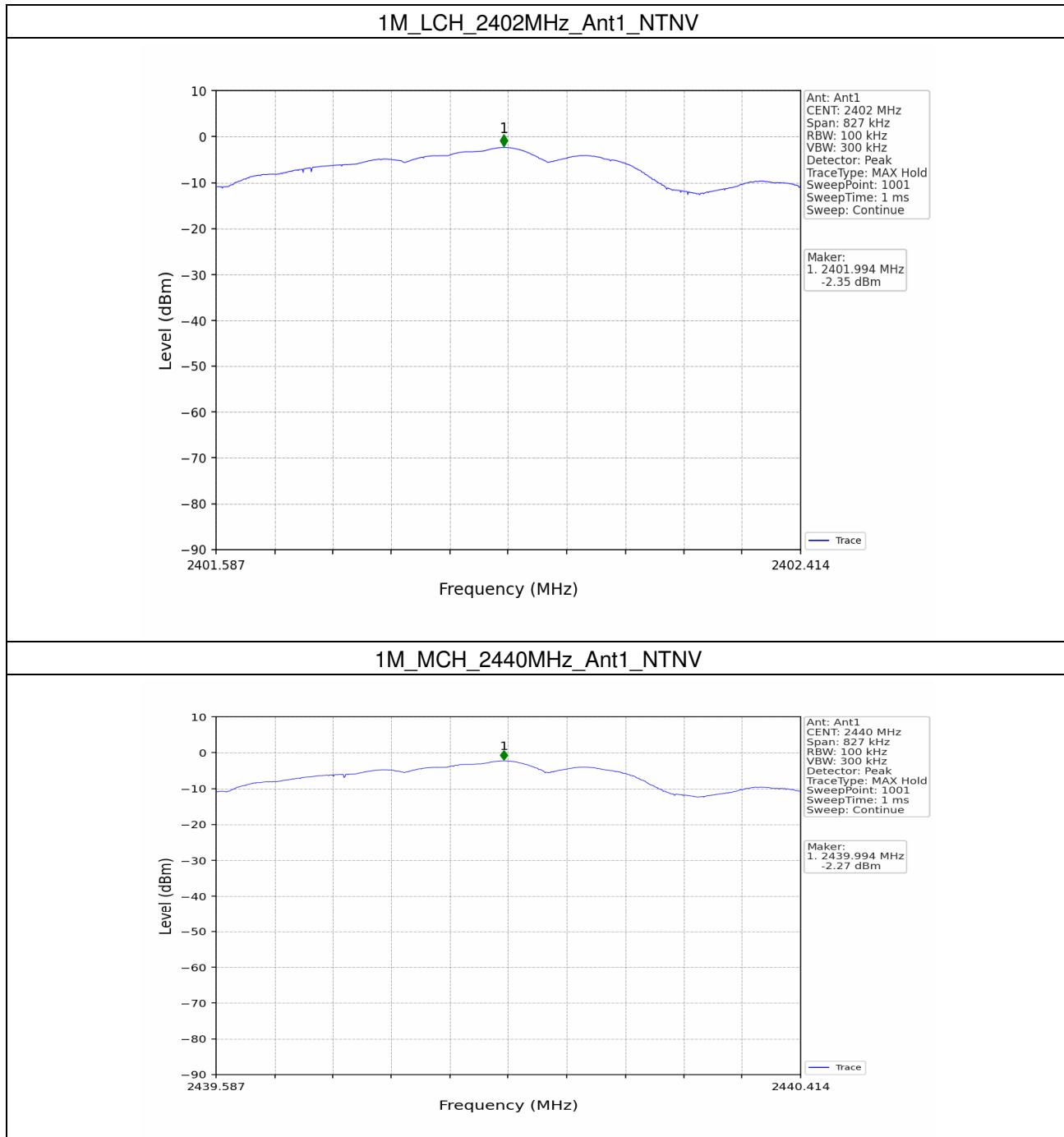
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5.1.2 Test Graph

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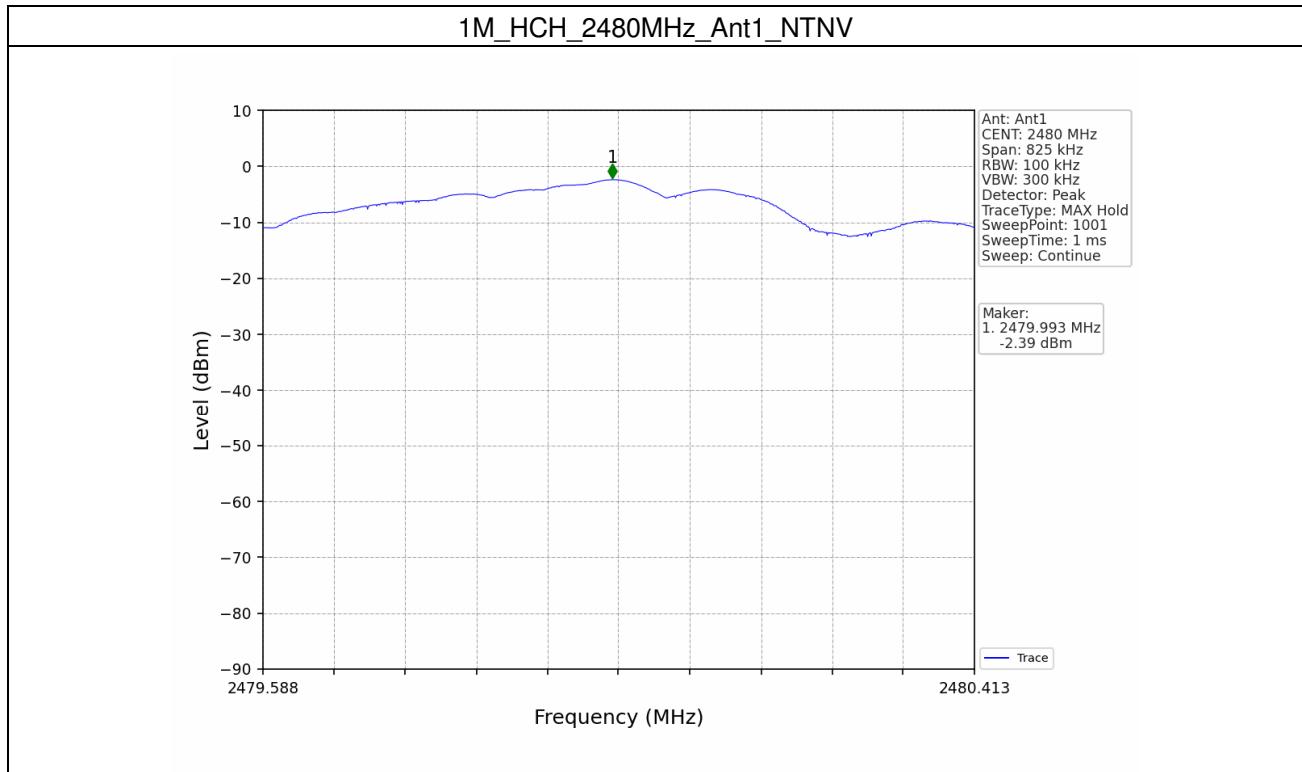
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5.2 CSE**5.2.1 Test Result**

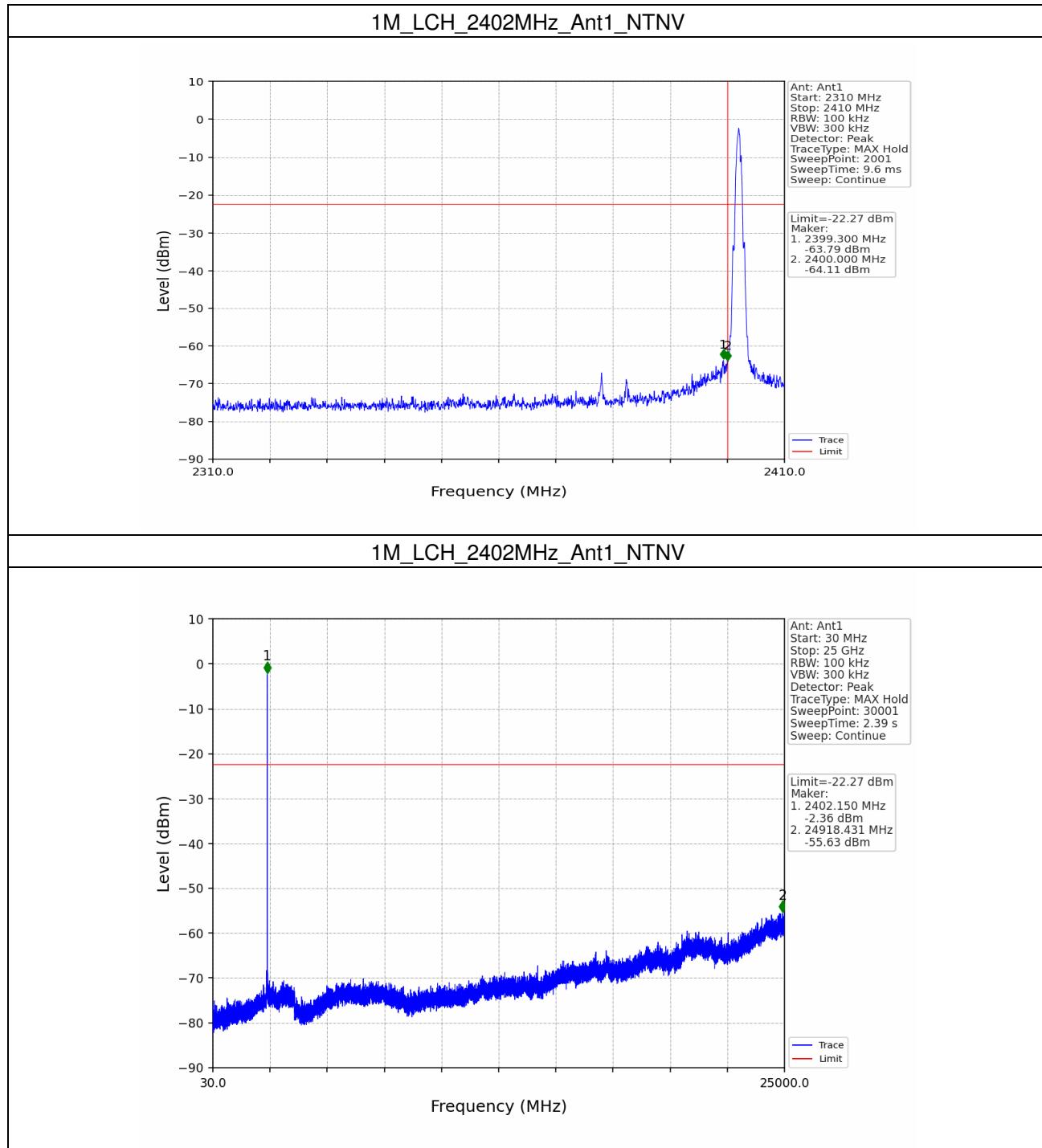
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M | SISO | 2402 | 1 | -2.27 | -22.27 | Pass |
| | | 2440 | 1 | -2.27 | -22.27 | Pass |
| | | 2480 | 1 | -2.27 | -22.27 | Pass |

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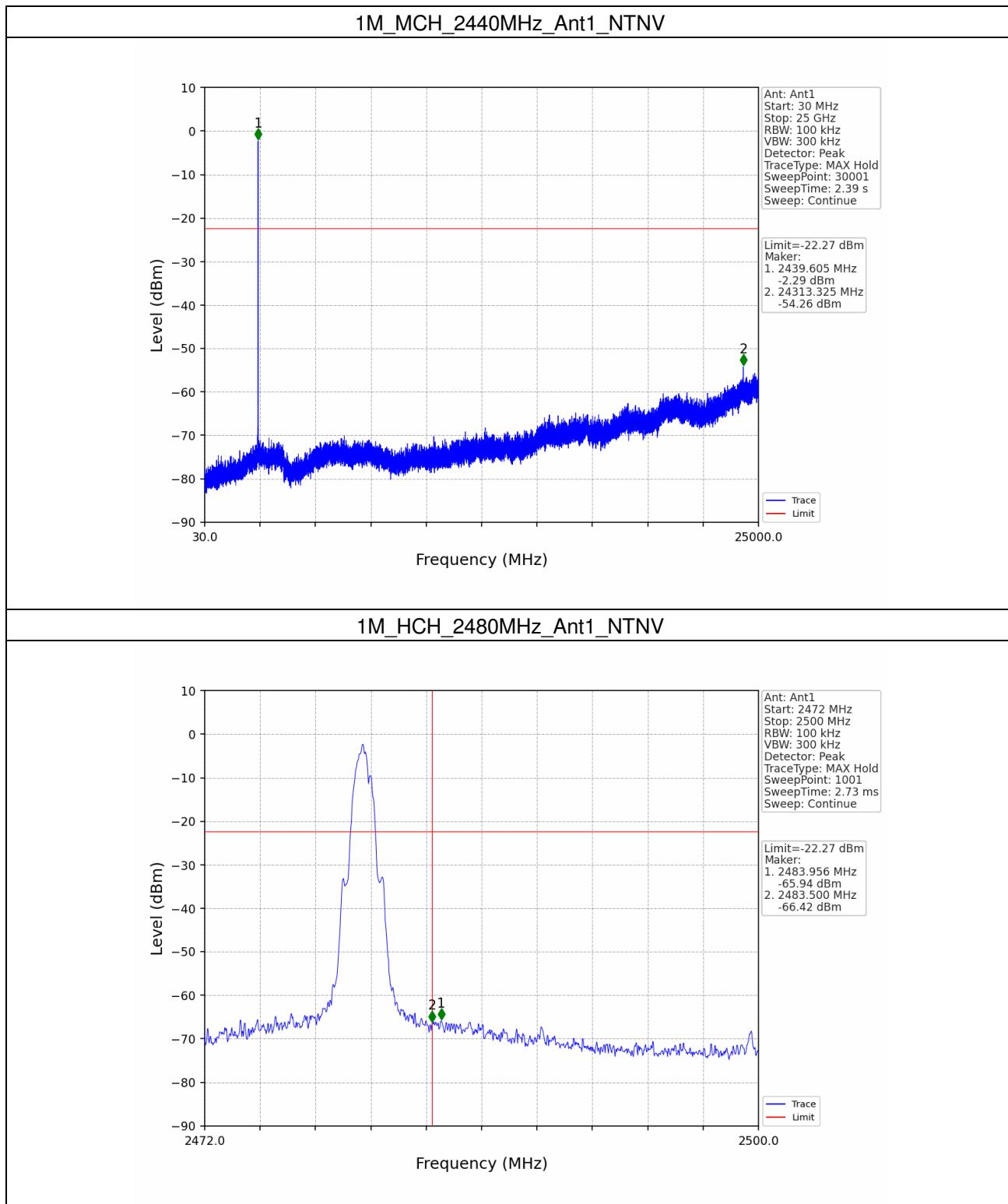
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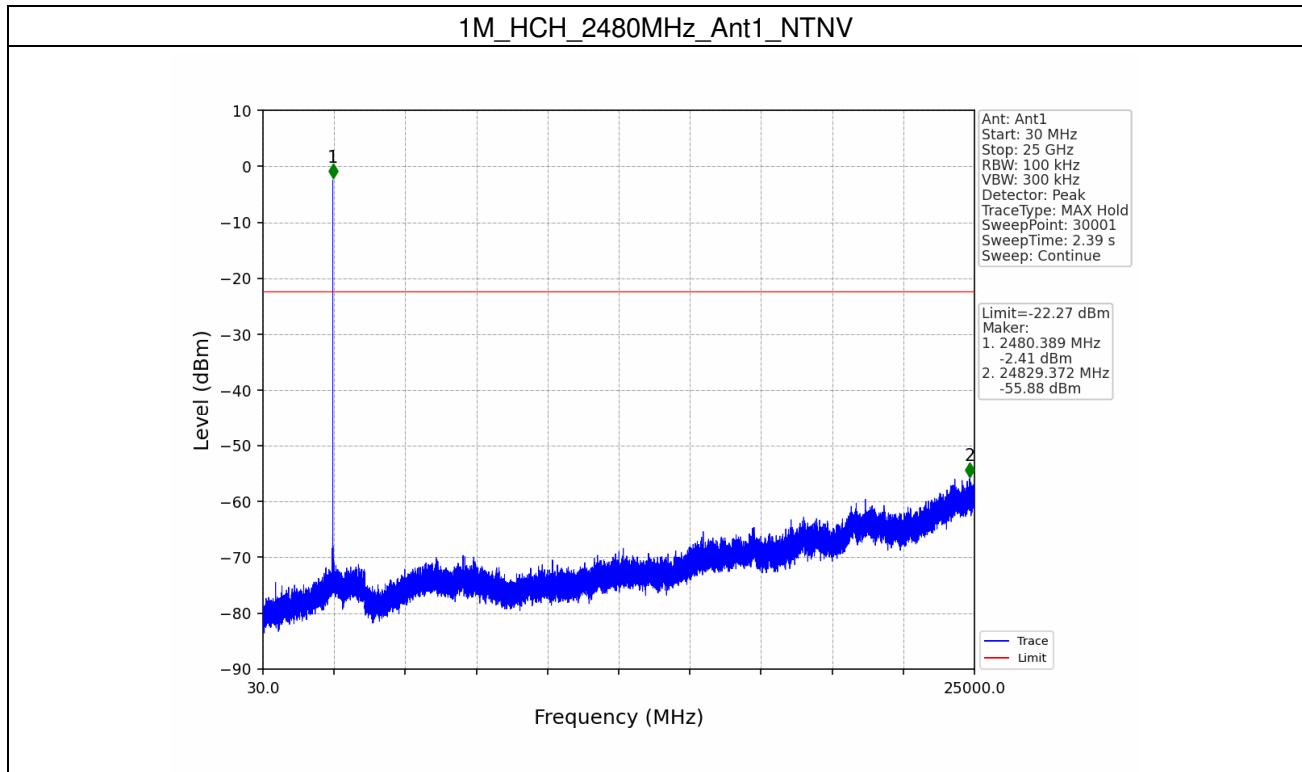
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