

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078303 Page: 1 of 81

TEST REPORT

| Application No.: | SZCR2403000783AT |
|---------------------------|---|
| Applicant: | Solaborate Inc. |
| Address of Applicant: | 2605 Enterprise RD E Suite 150, Clearwater, Florida 33759 United States |
| Manufacturer: | Solaborate Inc. |
| Address of Manufacturer: | 2605 Enterprise RD E Suite 150, Clearwater, Florida 33759 United States |
| Equipment Under Test (EUT |): |
| EUT Name: | Hello 3 |
| Model No.: | Hello 3 |
| FCC ID: | 2AW3M-HELLO3 |
| Standard(s) : | 47 CFR Part 15, Subpart C 15.247 |
| Date of Receipt: | 2024-03-08 |
| Date of Test: | 2024-03-21 to 2024-04-09 |
| Date of Issue: | 2024-04-17 |
| Test Result: | Pass* |

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

Keny. Ku

Keny Xu EMC Laboratory Manager



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| | Revision Record | | | | | |
|---------|-------------------------------|------------|--|----------|--|--|
| Version | Version Chapter Date Modifier | | | | | |
| 01 | | 2024-04-17 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|---|
| | loncert chen | |
| | Vincent Chen/Project Engineer | • |
| | Eric Fu | |
| | Eric Fu/Reviewer | |



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2 **Test Summary**

| Radio Spectrum Technical Requirement | | | | |
|---------------------------------------|-------------------------------------|-----|--|------|
| Item Standard Method Requirement Resu | | | | |
| 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 | | | | | |
|---|------------------|---|--|--------|--|
| ltem | Standard | Method | Requirement | Result | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | | 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 | 47 CFR Part 15, | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | |
| Conducted Spurious Emissions | Subpart C 15.247 | 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 | |



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4 General Information

4.1 Details of E.U.T.

| Powered by DC 12V, 3.0A, |
|--|
| From Adapter model: 152-00018 |
| Input AC 100-240V, 1.0A, 50/60Hz |
| Output: DC 12V, 3.0A, 36W |
| DC cable from adapter 1.5m unshielded with 2 cores |
| HDMI Cable 1.8m shielded |
| 0.5dB |
| V5.1 Dual mode |
| 2402MHz to 2480MHz |
| GFSK |
| 2MHz |
| 40 |
| FPC Antenna |
| 1.34dBi |
| |

Remark: The information in this section is provided by the applicant or manufacturer, SGS 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 | 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) | ± 3.1dB |
| Conducted Peak Output Power | ± 0.75dB |
| Minimum 6dB Bandwidth | ± 3% |
| Power Spectrum Density | ± 2.84dB |
| Conducted Band Edges Measurement | ± 0.75dB |
| Conducted Spurious Emissions | ± 0.75dB |
| Radiated Emissions which fall in the restricted bands | ± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz) |
| Radiated Spurious Emissions Below 1GHz | \pm 6.0dB for 3m; \pm 5.0dB for 10m |
| Radiated Spurious Emissions Above 1GHz | ± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz) |



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Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

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 | ZhongYu Electron | GB-88 | SEM001-06 | 2022-05-14 | 2025-05-13 |
| EMI Test Receiver | Rohde&Schwarz | ESCI | SEM004-02 | 2024-03-14 | 2025-03-13 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27a | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2023-07-07 | 2024-07-06 |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2023-09-19 | 2024-09-18 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2024-03-14 | 2025-03-13 |

| Conducted Peak Output Power | | | | | |
|-----------------------------|---|------------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Dower Sensor | Power Sensor TST PASS TSPS2023R SEM009-26 | 2023-03-28 | 2024-03-27 | | |
| Power Sensor | 131 FA33 | 13F32023R | 3EI0009-20 | 2024-03-27 | 2025-03-26 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-16 | 2024-03-14 | 2025-03-13 |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 |
| Attenueter | Huber+Suhner | 6620_SMA-50- | SEM021-09 | 2023-03-28 | 2024-03-27 |
| Attenuator | | 1 | 3EIVI021-09 | 2024-03-27 | 2025-03-26 |

| Minimum 6dB Bandwidth | | | | | | | | |
|-----------------------|---|---|---|---|--|--|--|--|
| Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | | |
| Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | | | | |
| KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 | | | | |
| TST PASS | TST PASS V2.0 | N/A | N/A | N/A | | | | |
| SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | | | | |
| Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-28 | 2024-03-27 2025-03-26 | | | | |
| | Manufacturer Chroma KEYSIGHT TST PASS SGS | ManufacturerModel No.Chroma62012P-80-60KEYSIGHTN9020ATST PASSTST PASS V2.0SGSN/A6620_SMA-50- | ManufacturerModel No.Inventory No.Chroma62012P-80-60SEM011-11KEYSIGHTN9020ASEM004-19TST PASSTST PASS V2.0N/ASGSN/ASEM031-016620_SMA-50-SMA-50- | Manufacturer Model No. Inventory No. Cal Date Chroma 62012P-80-60 SEM011-11 2023-10-19 KEYSIGHT N9020A SEM004-19 2024-03-14 TST PASS TST PASS N/A N/A SGS N/A SEM031-01 2023-07-07 6620 SMA-50- 2023-03-28 2023-03-28 | | | | |



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| Power Spectrum Density | | | | | | | | |
|------------------------|--------------|-------------------|---------------|--------------------------|--------------------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | | | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 | | | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-28 2024-03-27 | 2024-03-27 2025-03-26 | | | |

| Conducted Band Edges Measurement | | | | | | | | |
|----------------------------------|--------------|------------------|---------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | | | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 | | | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- | SEM021-09 | 2023-03-28 | 2024-03-27 | | | |
| Allenualor | | 1 | 3EIVIU21-09 | 2024-03-27 | 2025-03-26 | | | |

| Conducted Spurious Emissions | | | | | | | | |
|------------------------------|--------------|-------------------|---------------|--------------------------|--------------------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| DC Power Supply | Chroma | 62012P-80-60 | SEM011-11 | 2023-10-19 | 2024-10-18 | | | |
| MXA Signal Analyzer | KEYSIGHT | N9020A | SEM004-19 | 2024-03-14 | 2025-03-13 | | | |
| Measurement Software | TST PASS | TST PASS V2.0 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2023-07-07 | 2024-07-06 | | | |
| Attenuator | Huber+Suhner | 6620_SMA-50- 1 | SEM021-09 | 2023-03-28 2024-03-27 | 2024-03-27 2025-03-26 | | | |



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| Radiated Emissions which fall in the restricted bands | | | | | | | | |
|---|--|---------------------|--------------|------------|------------|--|--|--|
| Equipment | Manufacturer | Cal Date | Cal Due Date | | | | | |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2023-04-01 | 2026-03-31 | | | |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 | | | |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 | | | |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2023-09-19 | 2024-09-18 | | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 | | | |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 | | | |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 | | | |

| Radiated Spurious Emissions Below 1GHz | | | | | | | | |
|--|----------------------|---------------------|---------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2023-11-20 | 2025-11-19 | | | |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 | | | |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2023-10-19 | 2024-10-18 | | | |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 | | | |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2024-03-14 | 2025-03-13 | | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2023-07-07 | 2024-07-06 | | | |



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| Radiated Spurious Emissions Above 1GHz | | | | | | | | |
|--|--|---------------------|---------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2023-04-01 | 2026-03-31 | | | |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 | | | |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 | | | |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2023-09-19 | 2024-09-18 | | | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2023-07-07 | 2024-07-06 | | | |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 | | | |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2024-03-15 | 2025-03-14 | | | |

| General used equipment | | | | | | | | |
|------------------------------------|---|-----------|---------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date | | | |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2023-07-28 | 2024-07-27 | | | |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2023-07-28 | 2024-07-27 | | | |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2024-03-18 | 2025-03-17 | | | |



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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

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.34dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| | Conducted limit(dBµV) | | | | | |
|--|-----------------------|-----------|--|--|--|--|
| Frequency of emission(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. | | | | | | |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz | | | | | | |

7.1.1 E.U.T. Operation

| Operating Enviror | nment: | | | | | |
|-------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature: | 23.5 °C | Humidity: | 45.5 % RH | Atmospheric Pressure: | 1020 | mbar |

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |



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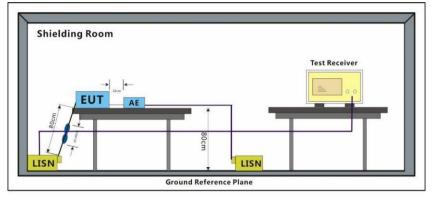
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7.1.3 Test Setup Diagram



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



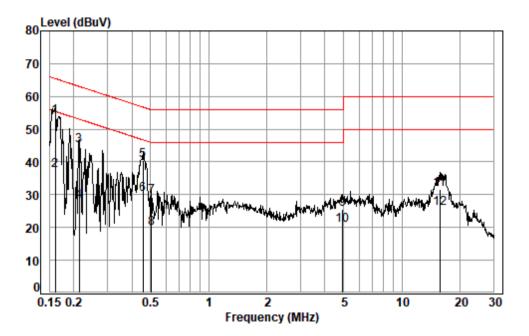
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Test Mode: 02; Line: Live line

Site : Shielding Room Condition: Line : 00783AT/00784AT Job No. Test mode: 02

| | | Cable | LISN | Read | | Limit | 0ver | |
|-----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| - | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 * | 0.1607 | 0.02 | 9.89 | 43.90 | 53.81 | 65.43 | -11.62 | QP |
| 2 | 0.1607 | 0.02 | 9.89 | 27.59 | 37.50 | 55.43 | -17.93 | Average |
| 3 | 0.2139 | 0.03 | 9.94 | 34.99 | 44.96 | 63.05 | -18.09 | QP |
| 4 | 0.2139 | 0.03 | 9.94 | 17.98 | 27.95 | 53.05 | -25.10 | Average |
| 5 | 0.4564 | 0.04 | 10.00 | 30.26 | 40.30 | 56.76 | -16.46 | QP |
| 6 * | 0.4564 | 0.04 | 10.00 | 20.14 | 30.18 | 46.76 | -16.58 | Average |
| 7 | 0.5047 | 0.04 | 9.99 | 19.52 | 29.55 | 56.00 | -26.45 | QP |
| 8 | 0.5047 | 0.04 | 9.99 | 9.79 | 19.82 | 46.00 | -26.18 | Average |
| 9 | 4.9519 | 0.09 | 10.04 | 15.36 | 25.49 | 56.00 | -30.51 | QP |
| 10 | 4.9519 | 0.09 | 10.04 | 10.49 | 20.62 | 46.00 | -25.38 | Average |
| 11 | 15.7179 | 0.24 | 10.22 | 21.08 | 31.54 | 60.00 | -28.46 | QP |
| 12 | 15.7179 | 0.24 | 10.22 | 15.38 | 25.84 | 50.00 | -24.16 | Average |



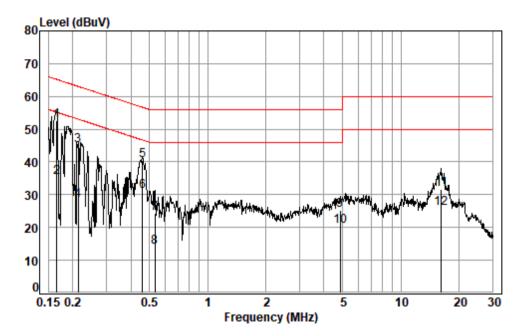
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Test Mode: 02; Line: Neutral Line

: Shielding Room Site Condition: Neutral Job No. : 00783AT/00784AT Test mode: 02

| | | Cable | LISN | Read | | Limit | 0ver | |
|-----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | MITZ | ub | ub | ubuv | ubuv | ubuv | ub | |
| 1 * | 0.1659 | 0.02 | 9.90 | 42.65 | 52.57 | 65.16 | -12.59 | QP |
| 2 | 0.1659 | 0.02 | 9.90 | 25.46 | 35.38 | 55.16 | -19.78 | Average |
| 3 | 0.2139 | 0.03 | 9.92 | 34.93 | 44.88 | 63.05 | -18.17 | QP |
| 4 | 0.2139 | 0.03 | 9.92 | 18.22 | 28.17 | 53.05 | -24.88 | Average |
| 5 | 0.4588 | 0.04 | 9.92 | 30.37 | 40.33 | 56.71 | -16.38 | QP |
| 6* | 0.4588 | 0.04 | 9.92 | 20.92 | 30.88 | 46.71 | -15.83 | Average |
| 7 | 0.5350 | 0.04 | 9.94 | 14.42 | 24.40 | 56.00 | -31.60 | QP |
| 8 | 0.5350 | 0.04 | 9.94 | 3.97 | 13.95 | 46.00 | -32.05 | Average |
| 9 | 4.8480 | 0.09 | 10.01 | 15.20 | 25.30 | 56.00 | -30.70 | QP |
| 10 | 4.8480 | 0.09 | 10.01 | 10.17 | 20.27 | 46.00 | -25.73 | Average |
| 11 | 16.2256 | 0.24 | 10.25 | 21.10 | 31.59 | 60.00 | -28.41 | QP |
| 12 | 16.2256 | 0.24 | 10.25 | 15.50 | 25.99 | 50.00 | -24.01 | Average |



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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) |
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 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: 24.7 °C

Humidity: 36.4 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |



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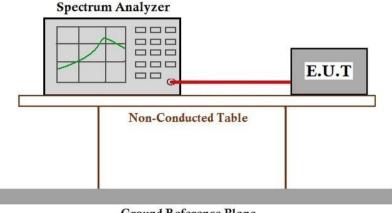
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7.2.3 Test Setup Diagram



Ground Reference Plane

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

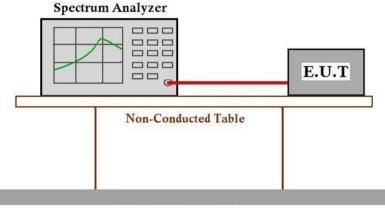
Operating Environment:

| - | | | | | | |
|--------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature: | 24.7 °C | Humidity: | 36.4 % RH | Atmospheric Pressure: | 1020 | mbar |

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.3.3 Test Setup Diagram



Ground Reference Plane

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

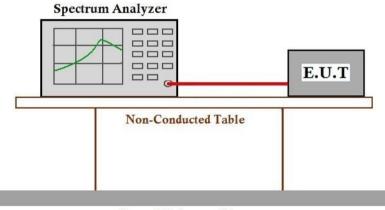
Operating Environment:

| T | 04700 | | | Atas a sale sale Das assures 1000 | |
|--------------|---------|-----------|-----------|-----------------------------------|------|
| Temperature: | 24.7 °C | Humidity: | 36.4 % RH | Atmospheric Pressure: 1020 | mpar |

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

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Atmospheric Pressure: 1020 mbar

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: 24.7 °C

Mode Pre-scan / Description **Final test** Code TX mode(1Mbps) Keep the EUT in continuously transmitting mode with GFSK Final test 02 modulation. TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK 03 Final test modulation.

36.4 % RH

Humidity:

7.5.2 Test Mode Description



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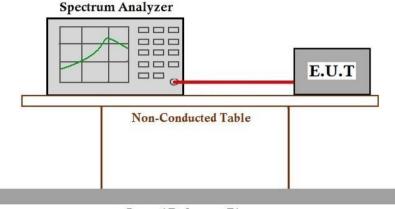
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 24.7 °C Humidity: 36.4 % RH

Atmospheric Pressure: 1020 mbar

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |

7.6.2 Test Mode Description



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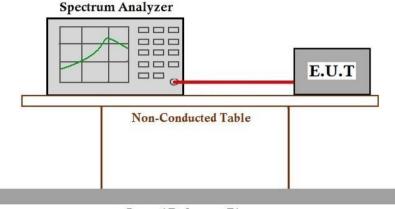
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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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 Enviro | Operating Environment: | | | | | |
|------------------|------------------------|-----------|-----------|-----------------------|------|------|
| Temperature: | 21.4 °C | Humidity: | 48.7 % RH | Atmospheric Pressure: | 1020 | mbar |

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |



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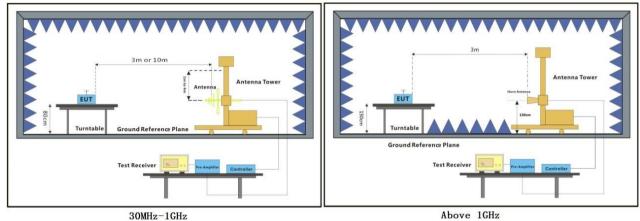
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7.7.3 Test Setup Diagram



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.



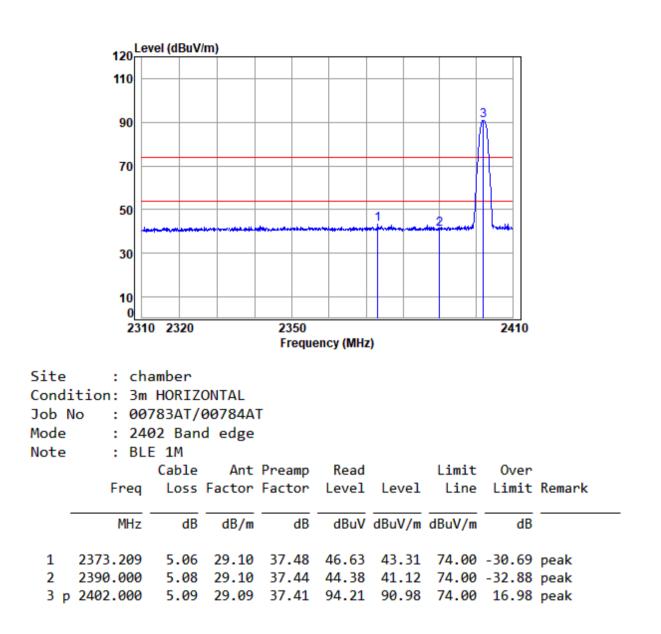
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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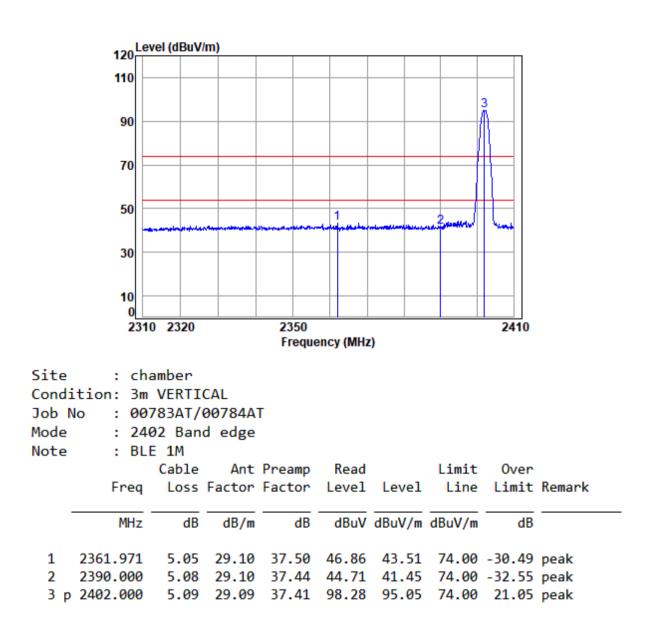
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low





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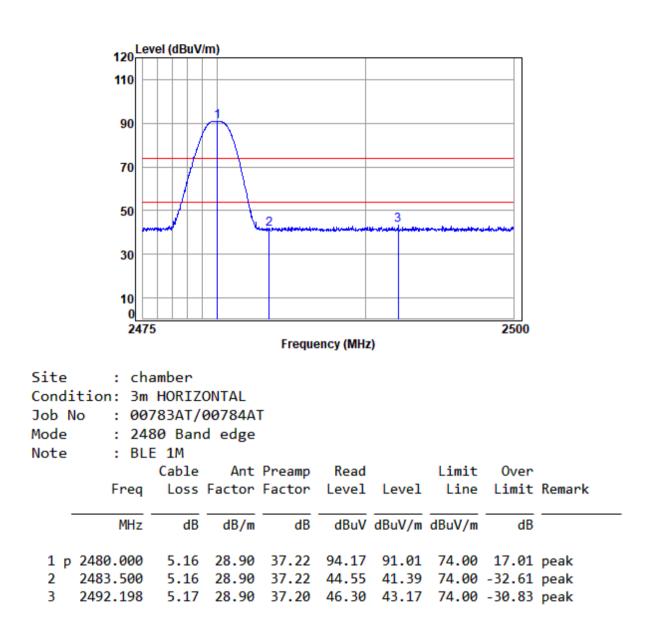
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High





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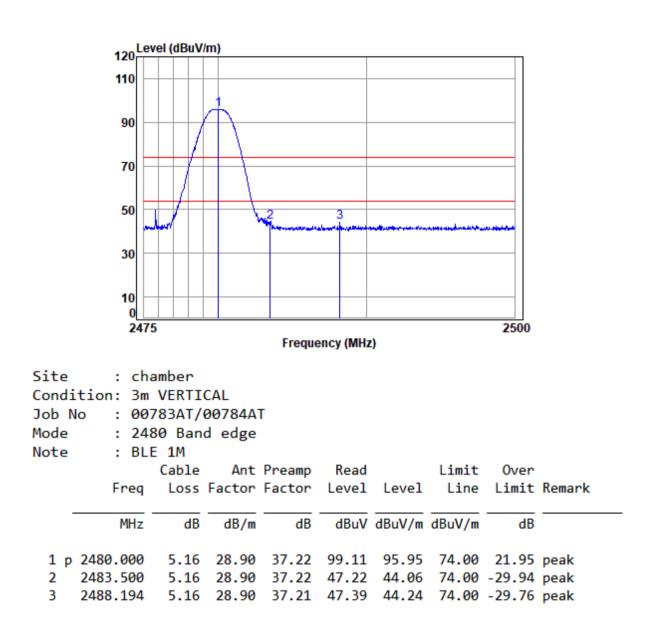
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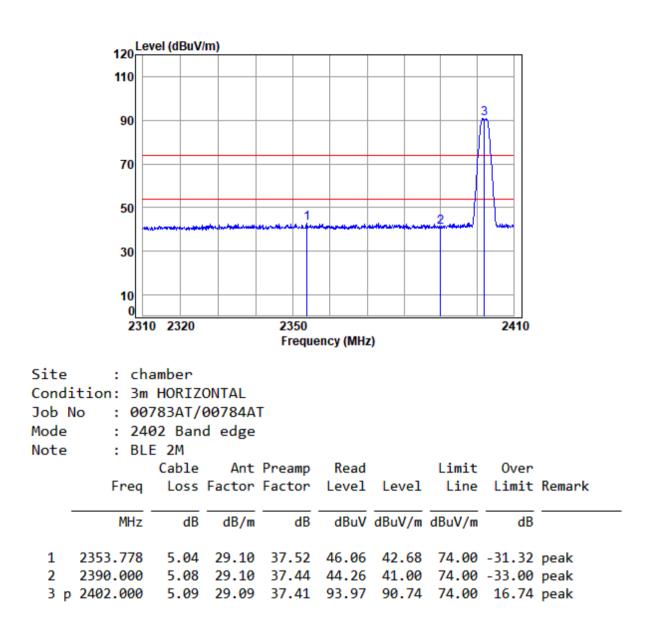
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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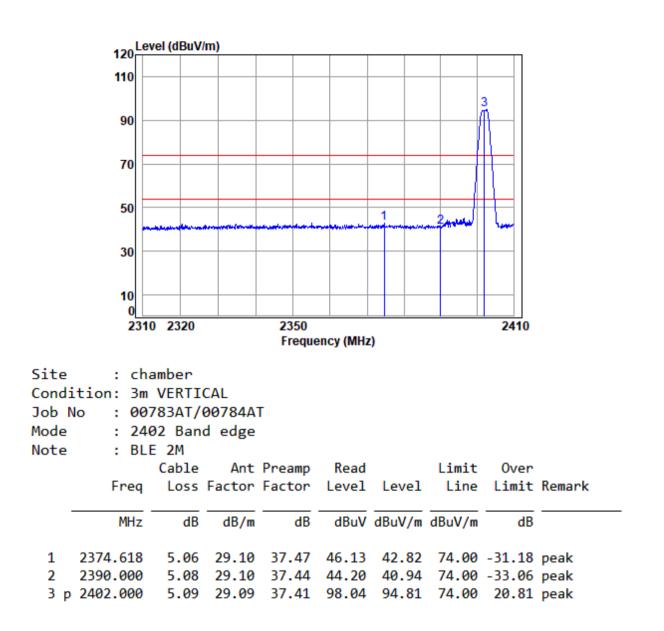
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low





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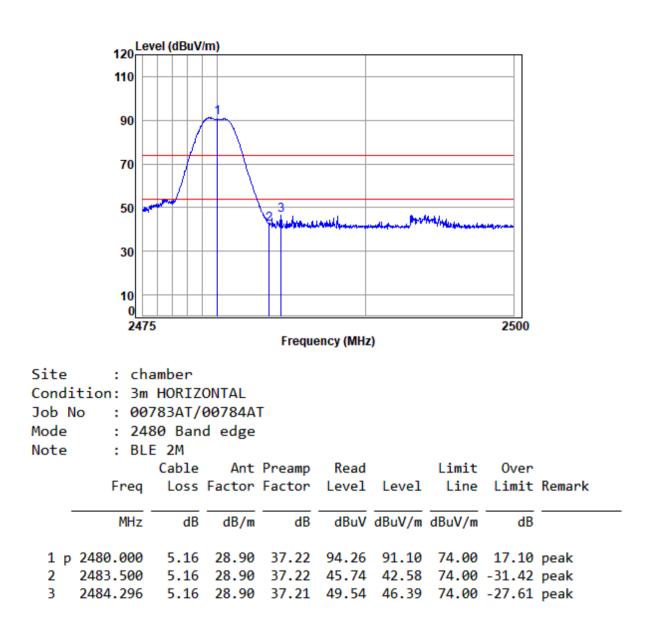
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Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High





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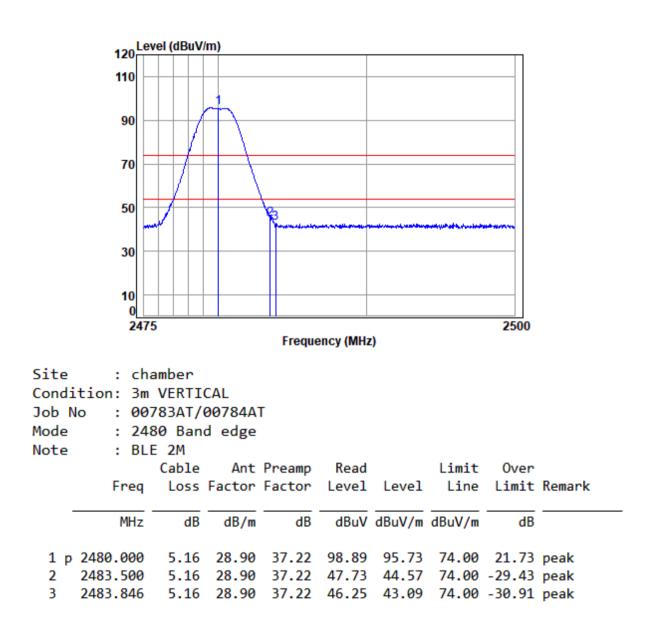
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Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High





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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: | 23.2 °C | Humidity: | 45.8 % RH | Atmospheric Pressure: | 1020 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|
|--------------|---------|-----------|-----------|-----------------------|------|------|

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |
| Pre-scan | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. |



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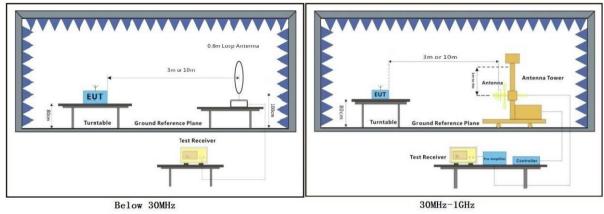
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7.8.3 Test Setup Diagram



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.



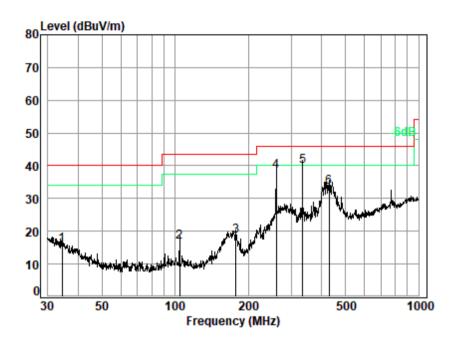
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Test Mode: 02; Polarity: Horizontal



Site : chamber Condition: 3m HORIZONTAL Job No. : 00783AT/00784AT Test Mode: 02

| | [mag | | | Preamp | | | | | Domonik |
|-----|--------|--------|------|--------|-------|--------|--------|--------|---------|
| | Freq | Factor | LOSS | Factor | rever | rever | Line | LIMIC | Kemark |
| _ | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 34.28 | 19.28 | 0.69 | 27.79 | 23.62 | 15.80 | 40.00 | -24.20 | QP |
| 2 | 104.17 | 12.22 | 1.21 | 27.59 | 30.81 | 16.65 | 43.50 | -26.85 | QP |
| 3 | 177.51 | 13.96 | 1.61 | 27.33 | 30.27 | 18.51 | 43.50 | -24.99 | QP |
| 4 | 260.14 | 17.22 | 1.99 | 27.03 | 46.15 | 38.33 | 46.00 | -7.67 | QP |
| 5 q | 333.69 | 18.80 | 2.30 | 27.04 | 45.68 | 39.74 | 46.00 | -6.26 | QP |
| 6 | 428.02 | 20.85 | 2.65 | 27.46 | 37.51 | 33.55 | 46.00 | -12.45 | QP |



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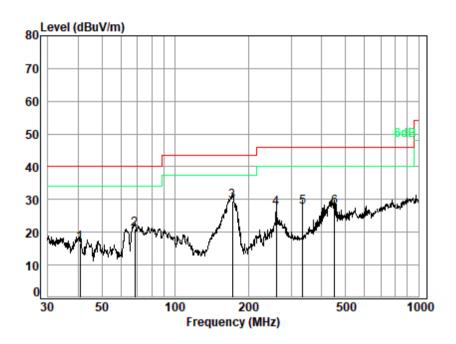
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Test Mode: 02; Polarity: Vertical



| Site : | chamber | | | | |
|------------|-----------------|--|--|--|--|
| Condition: | 3m VERTICAL | | | | |
| Job No. : | 00783AT/00784AT | | | | |
| Test Mode: | 02 | | | | |

| | | Ant | Cable | Preamp | Read | | Limit | 0ver | |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit | Remark |
| - | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 40.70 | 16.05 | 0.76 | 27.77 | 27.77 | 16.81 | 40.00 | -23.19 | QP |
| 2 | 68.39 | 10.70 | 0.98 | 27.70 | 36.98 | 20.96 | 40.00 | -19.04 | QP |
| 3 q | 171.99 | 13.49 | 1.58 | 27.35 | 41.85 | 29.57 | 43.50 | -13.93 | QP |
| 4 | 260.14 | 17.22 | 1.99 | 27.03 | 35.20 | 27.38 | 46.00 | -18.62 | QP |
| 5 | 333.69 | 18.80 | 2.30 | 27.04 | 33.77 | 27.83 | 46.00 | -18.17 | QP |
| 6 | 452.72 | 21.20 | 2.73 | 27.57 | 31.43 | 27.79 | 46.00 | -18.21 | 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 |

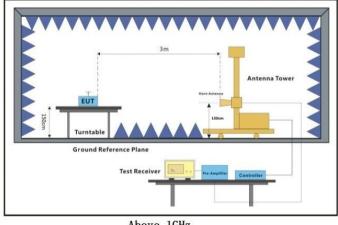
7.9.1 E.U.T. Operation

| Operating Enviro | onment: | | | | | |
|------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature: | 21.4 °C | Humidity: | 48.5 % RH | Atmospheric Pressure: | 1020 | mbar |

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description | | | | | | |
|--------------------------|--------------|---|--|--|--|--|--|--|
| Final test | 02 | TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. | | | | | | |
| Final test | 03 | TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation. | | | | | | |

7.9.3 Test Setup Diagram



Above 1GHz



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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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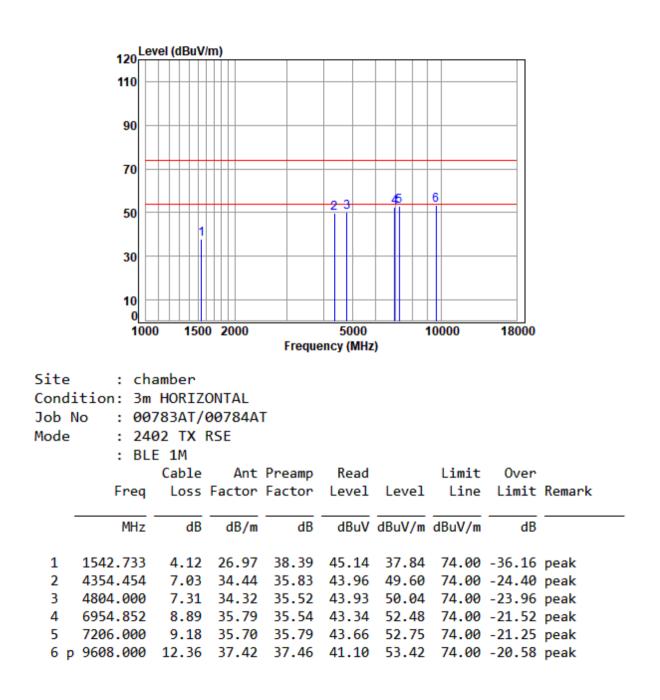
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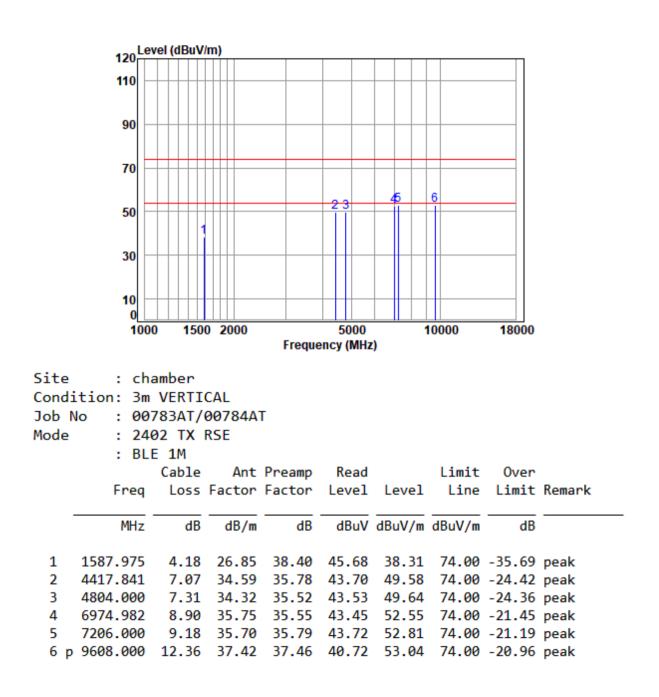
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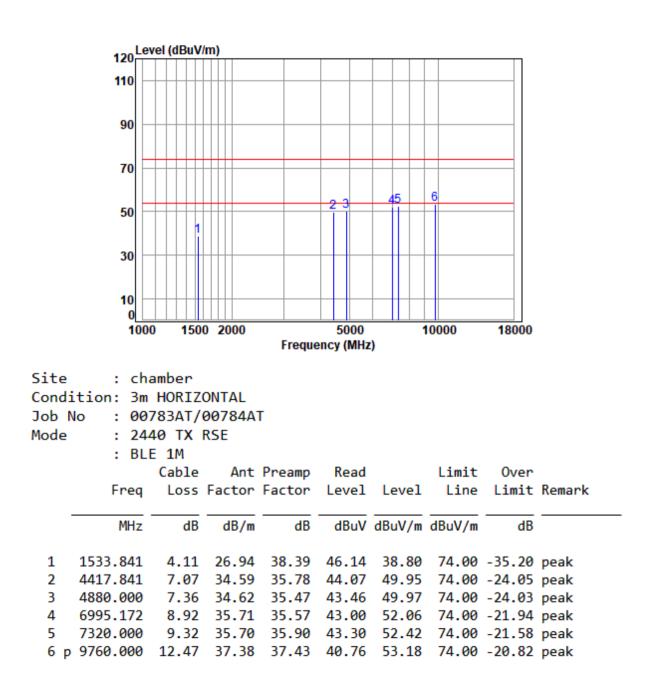
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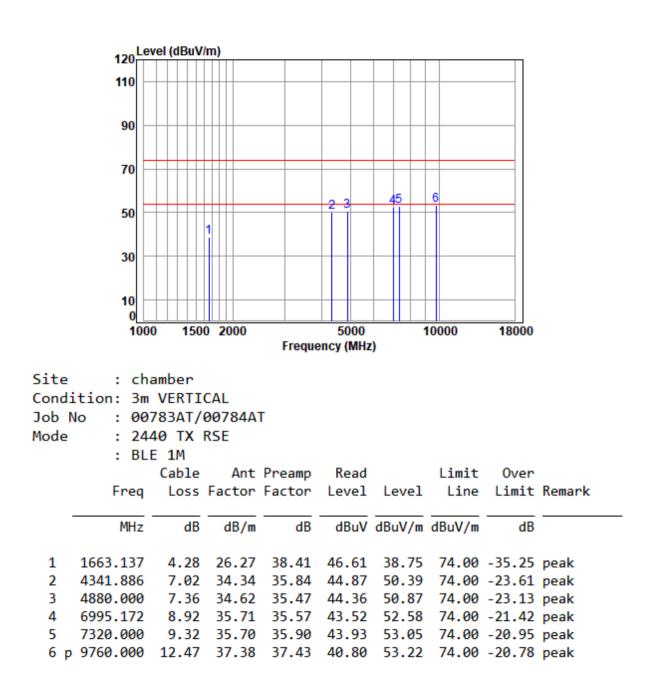
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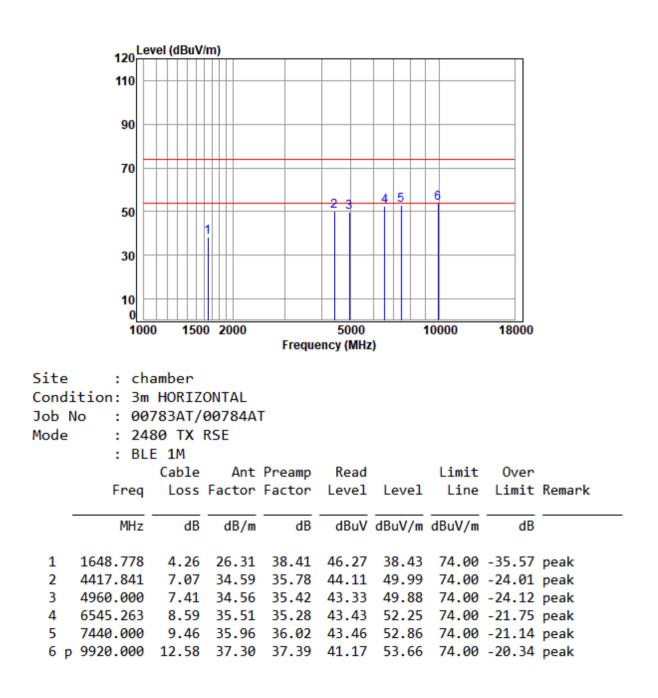
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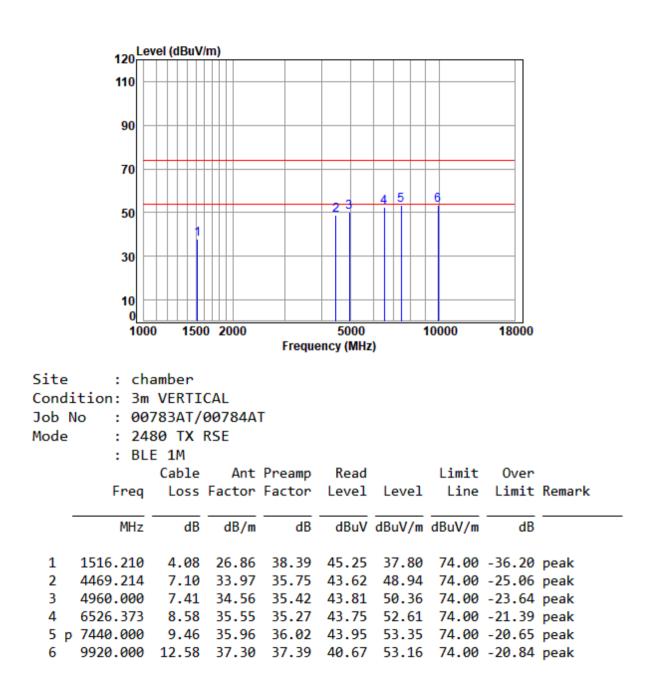
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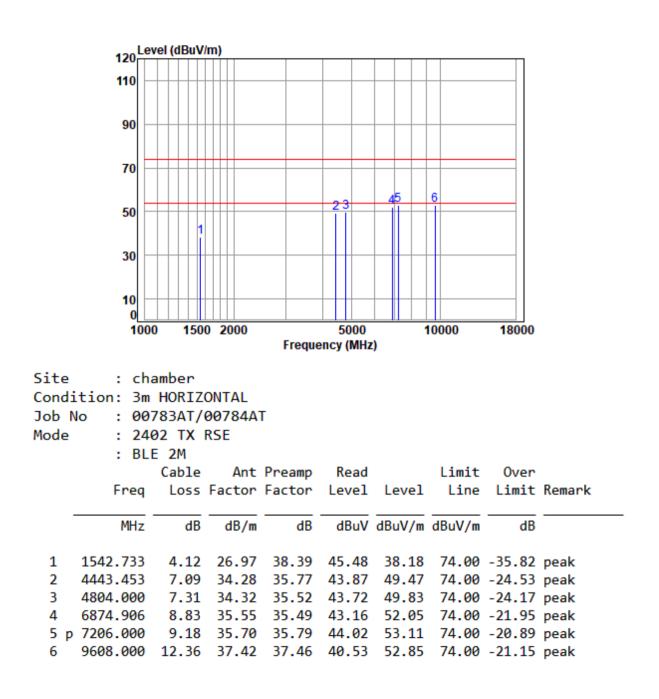
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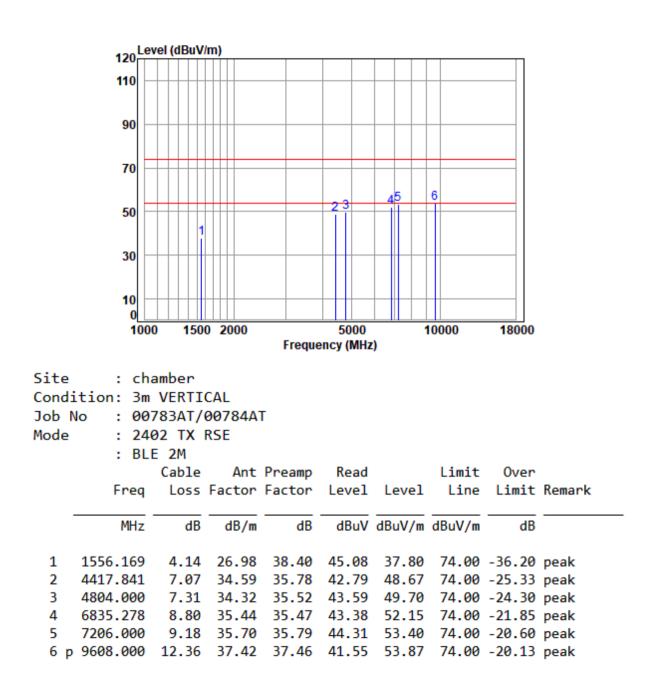
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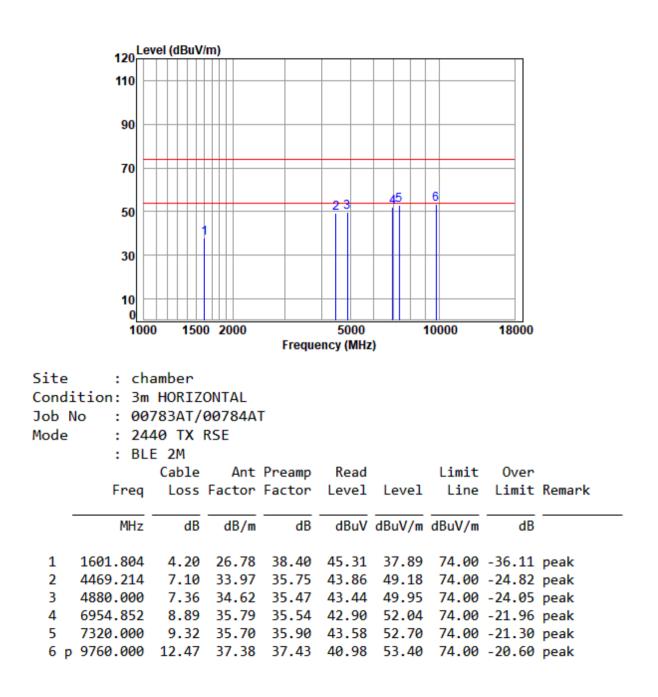
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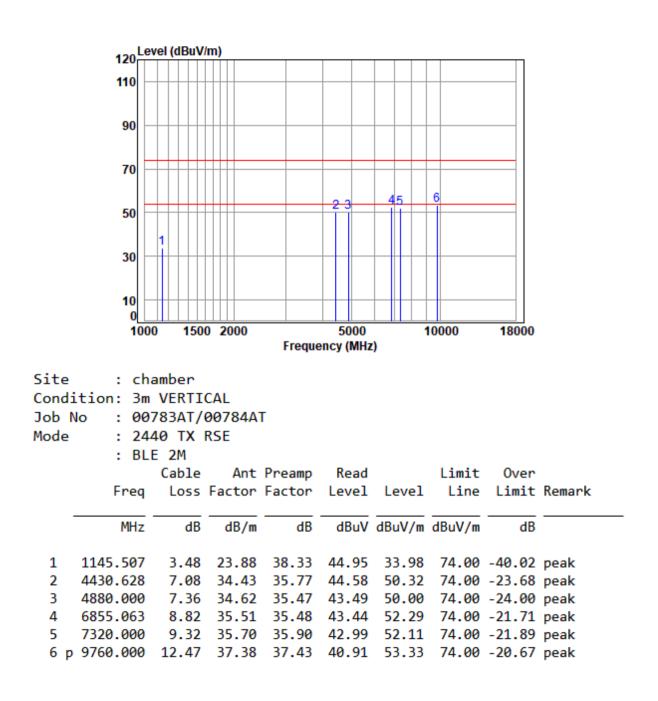
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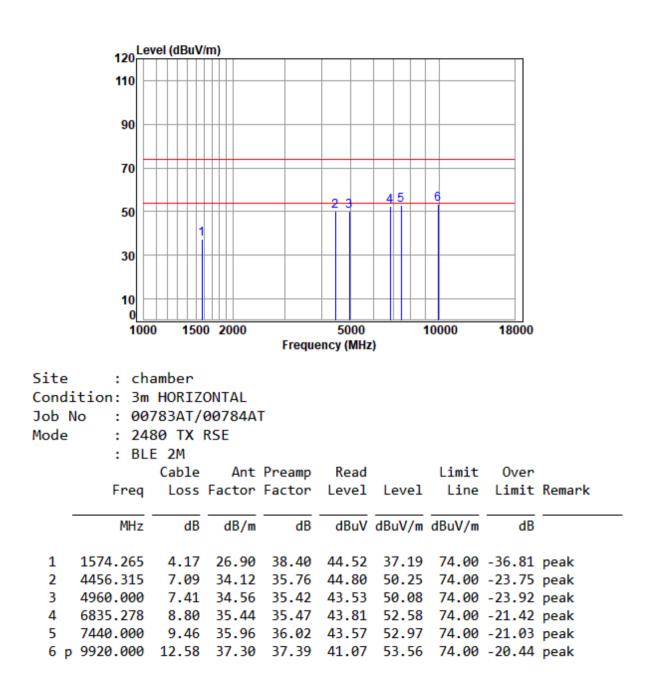
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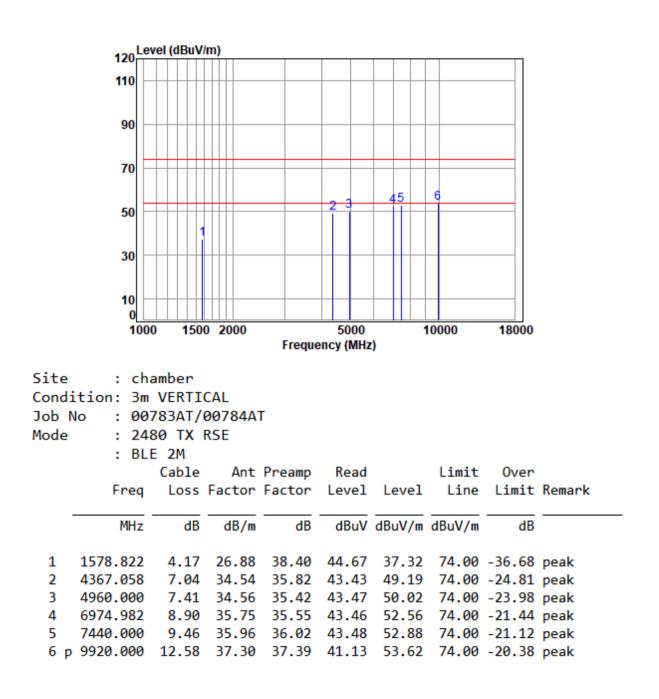
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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2403000783AT.

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2403000783AT



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10 Appendix

- 1. Duty Cycle
- 1.1 Ant1

1.1.1 Test Result

| | Ant1 | | | | | | | | | | |
|------|------------|--------------------|--------------|----------------|-------------------|--------------------------------------|--------------------------|--|--|--|--|
| Mode | ТХ Туре | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) | | | | |
| | | 2402 | 0.384 | 0.625 | 61.44 | 2.12 | 0.03 | | | | |
| 1M | SISO | 2440 | 0.384 | 0.625 | 61.44 | 2.12 | 0.03 | | | | |
| | | 2480 | 0.383 | 0.625 | 61.28 | 2.13 | 0.04 | | | | |
| | | 2402 | 0.200 | 0.625 | 32.00 | 4.95 | 0.03 | | | | |
| 2M | SISO | 2440 | 0.200 | 0.625 | 32.00 | 4.95 | 0.02 | | | | |
| | | 2480 | 0.201 | 0.625 | 32.16 | 4.93 | 0.03 | | | | |



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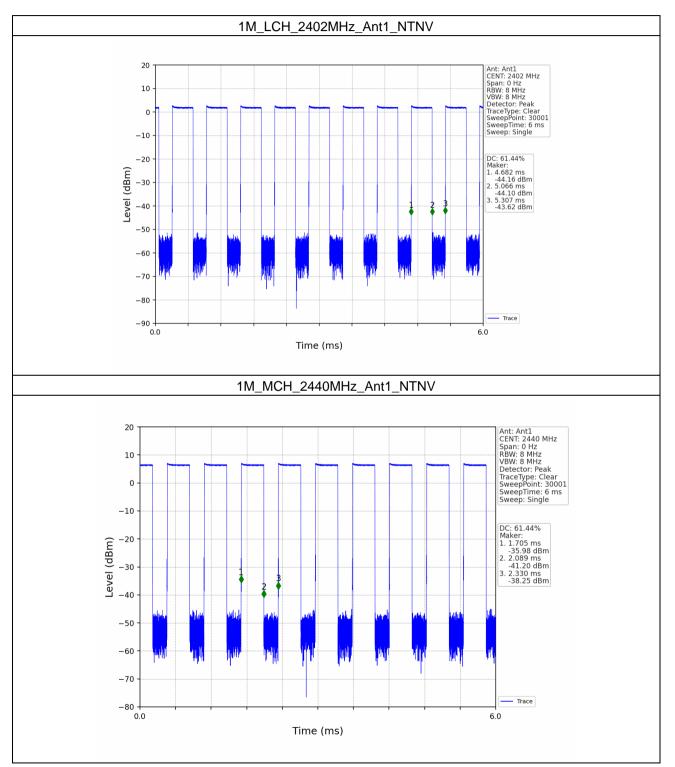
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1.1.2 Test Graph



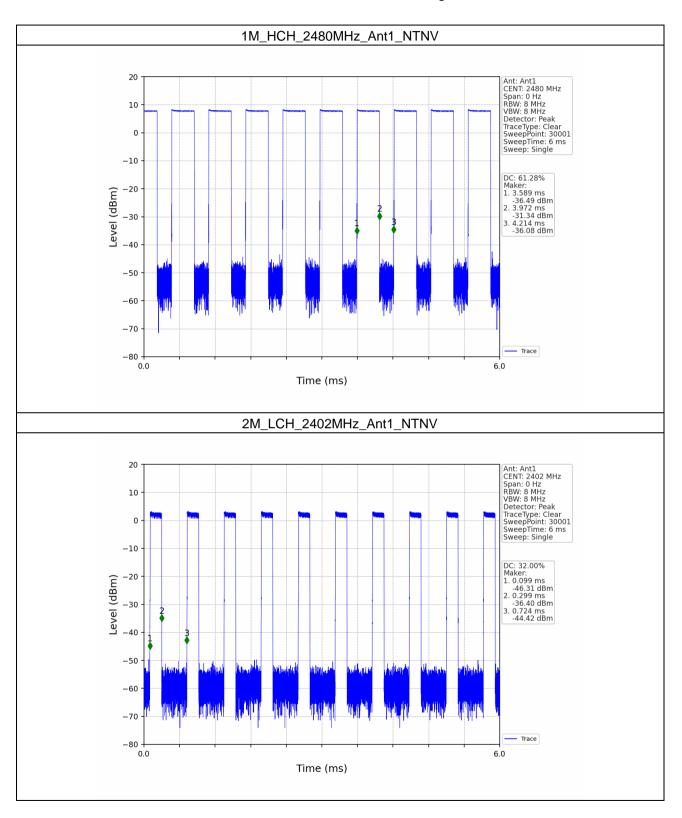
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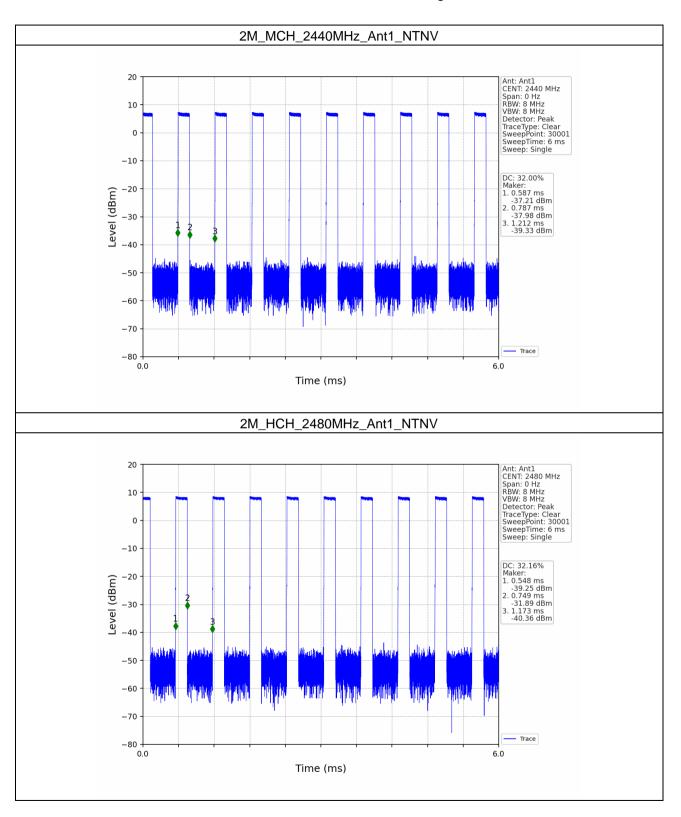
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

| Mode | ТΧ | Frequency (MHz) | Frequency | ΔΝΙΤ | 99% Occupied E | Verdict | |
|------|------|--------------------|-----------|--------|----------------|---------|------|
| Mode | Туре | | ANT | Result | Limit | verdict | |
| | | 2402 | 1 | 1.055 | / | Pass | |
| 1M | SISO | 2440 | 1 | 1.056 | / | Pass | |
| | | 2480 | 1 | 1.053 | / | Pass | |
| | SISO | | 2402 | 1 | 2.069 | / | Pass |
| 2M | | 2440 | 1 | 2.072 | / | Pass | |
| | | 2480 | 1 | 2.073 | / | Pass | |



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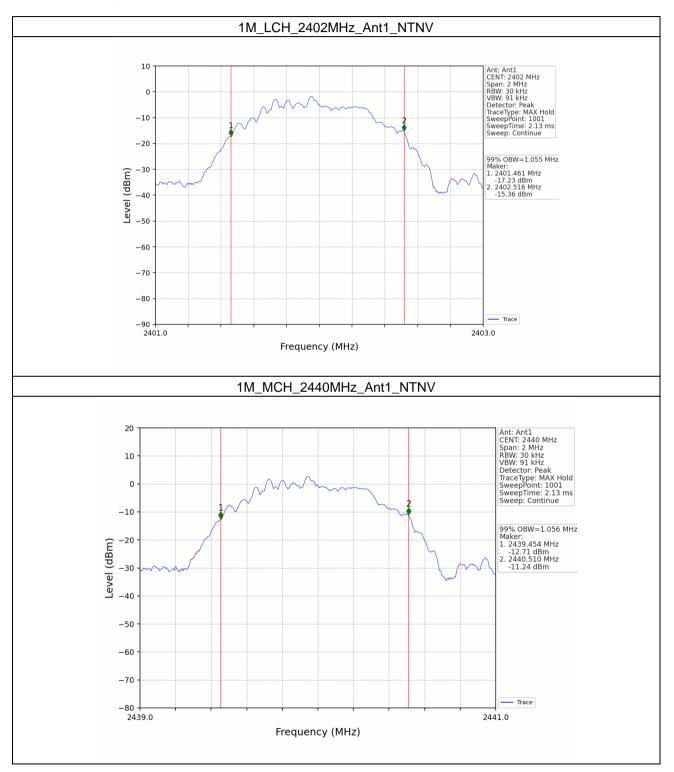
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2.1.2 Test Graph





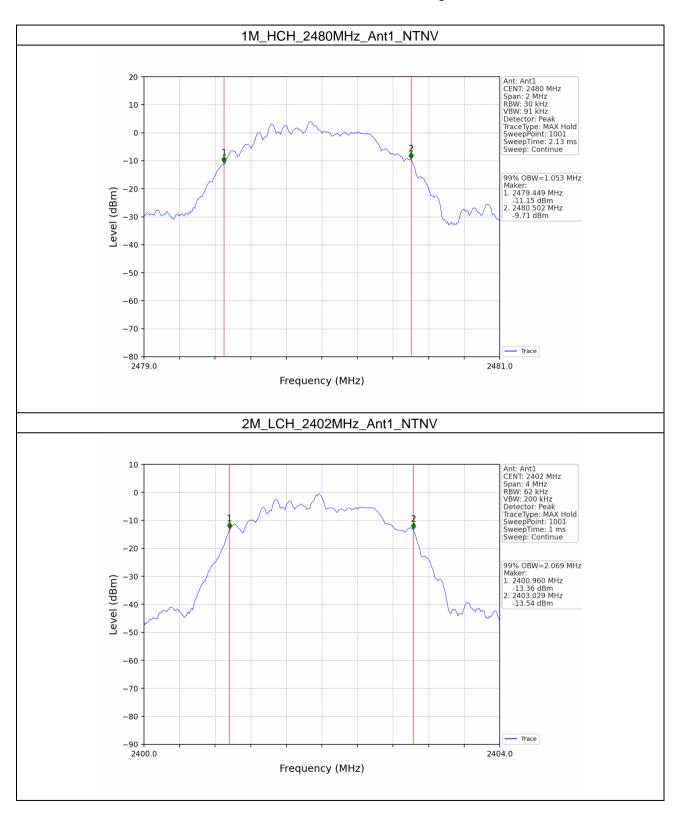
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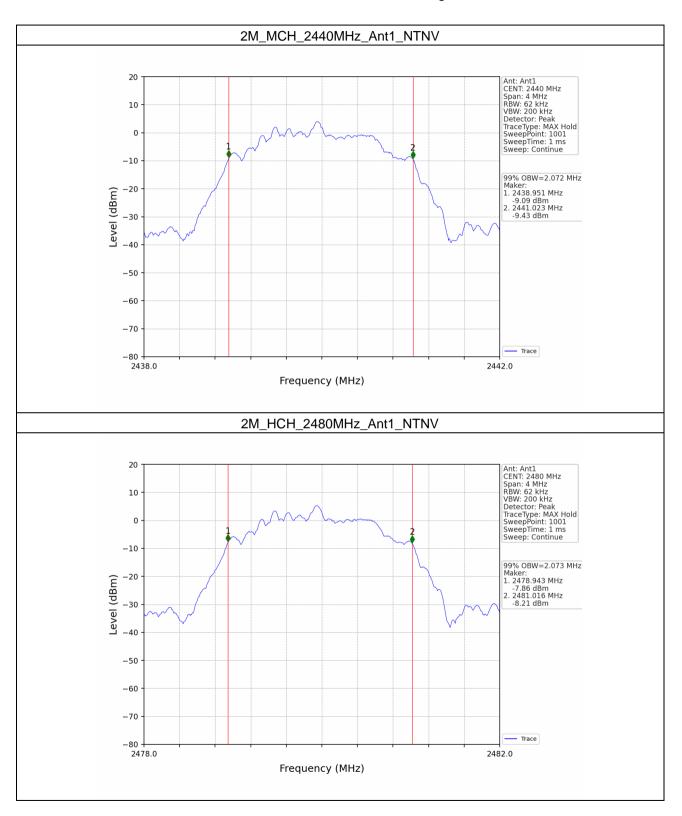
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2.2 6dB BW

2.2.1 Test Result

| Mada | ΤX | Frequency | | 6dB Bandv | vidth (MHz) | Vordiot |
|------|------|-----------|-----|-----------|-------------|---------|
| Mode | Туре | (MHz) | ANT | Result | Limit | Verdict |
| | | 2402 | 1 | 0.695 | >=0.5 | Pass |
| 1M | SISO | 2440 | 1 | 0.697 | >=0.5 | Pass |
| | | 2480 | 1 | 0.712 | >=0.5 | Pass |
| | | 2402 | 1 | 1.197 | >=0.5 | Pass |
| 2M | SISO | 2440 | 1 | 1.199 | >=0.5 | Pass |
| | | 2480 | 1 | 1.197 | >=0.5 | Pass |



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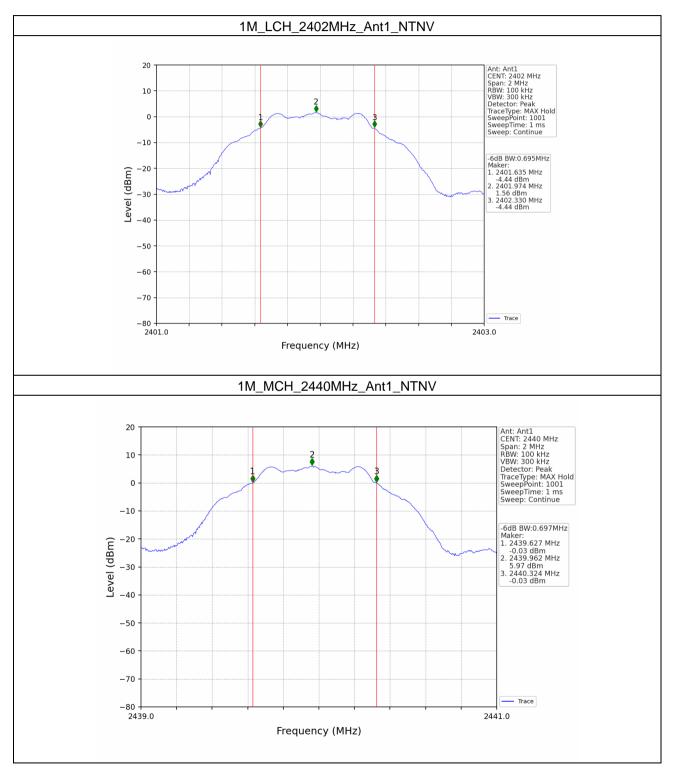
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2.2.2 Test Graph





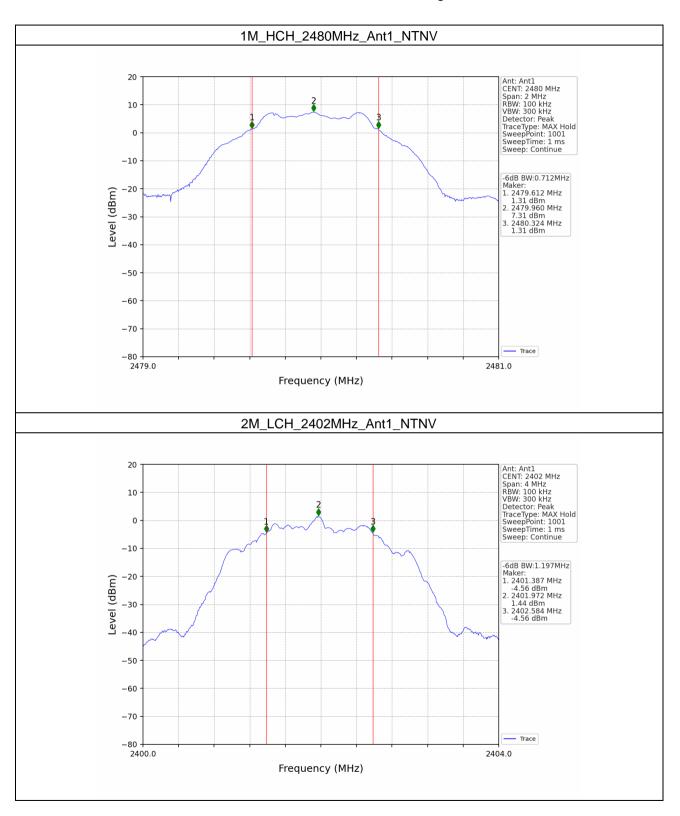
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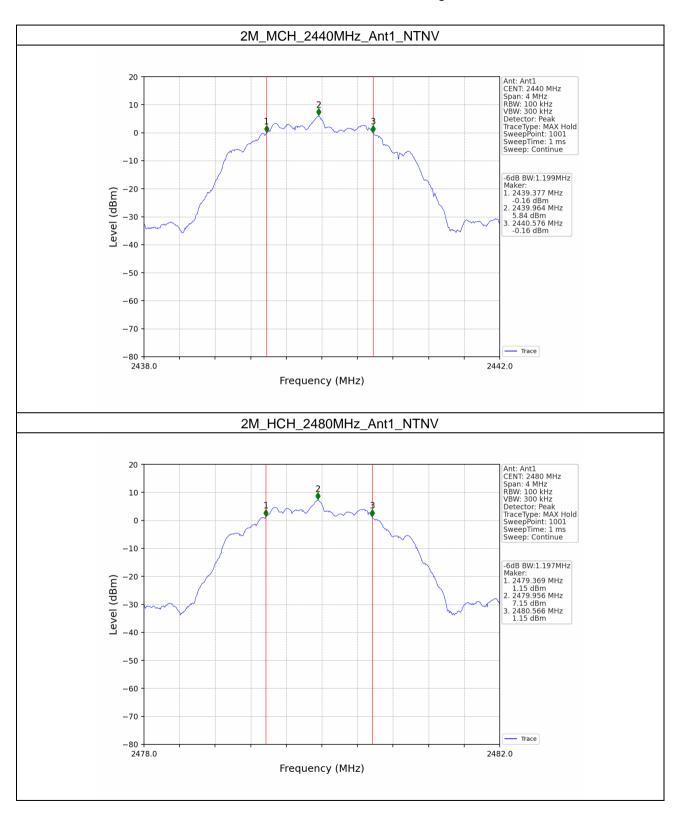
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mada | ТΧ | Frequency | Maximum Peak Conduc | Vordict | | | |
|------|------|-----------|---------------------|---------|---------|------|------|
| Mode | Туре | (MHz) | ANT1 | Limit | Verdict | | |
| | | 2402 | 2.53 | <=30 | Pass | | |
| 1M | SISO | SISO | 2440 | 6.86 | <=30 | Pass | |
| | | 2480 | 8.18 | <=30 | Pass | | |
| | SISO | | | 2402 | 3.04 | <=30 | Pass |
| 2M | | 2440 | 7.17 | <=30 | Pass | | |
| | | 2480 | 8.40 | <=30 | Pass | | |



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Vardiat |
|------|------------|--------------------|------------------------|-------|---------|
| | | | ANT1 | Limit | Verdict |
| 1M | SISO | 2402 | -13.18 | <=8 | Pass |
| | | 2440 | -8.62 | <=8 | Pass |
| | | 2480 | -7.48 | <=8 | Pass |
| 2M | SISO | 2402 | -15.45 | <=8 | Pass |
| | | 2440 | -10.94 | <=8 | Pass |
| | | 2480 | -9.50 | <=8 | Pass |



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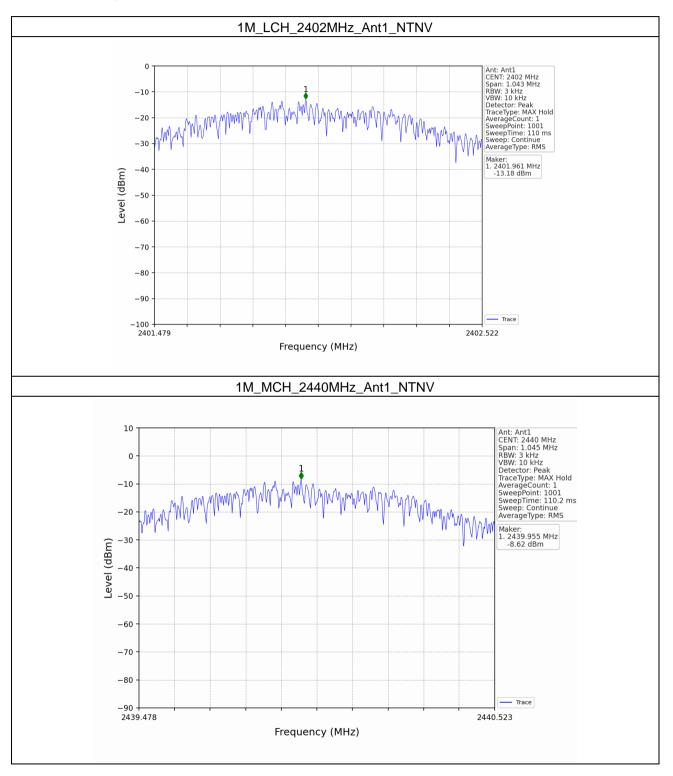
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4.1.2 Test Graph





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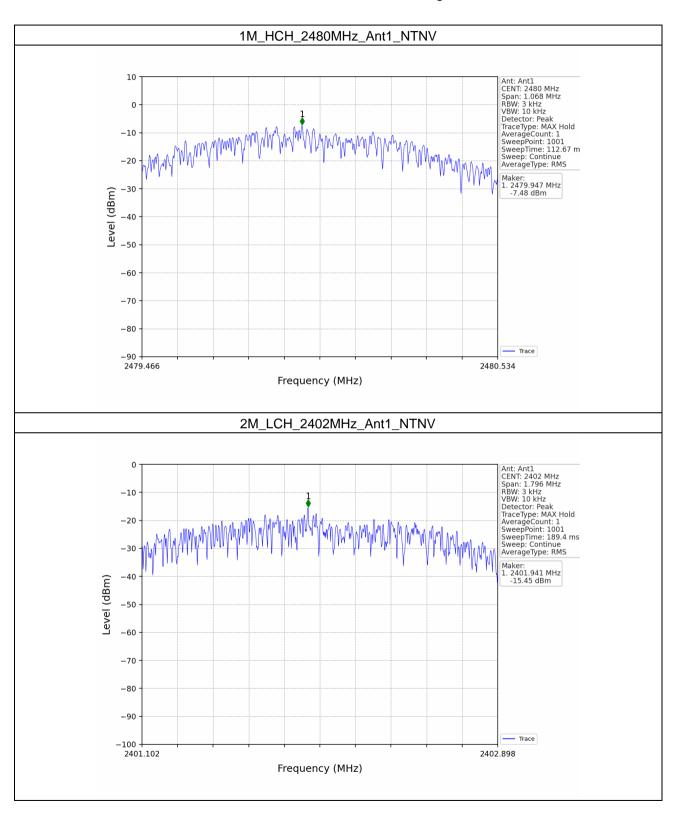
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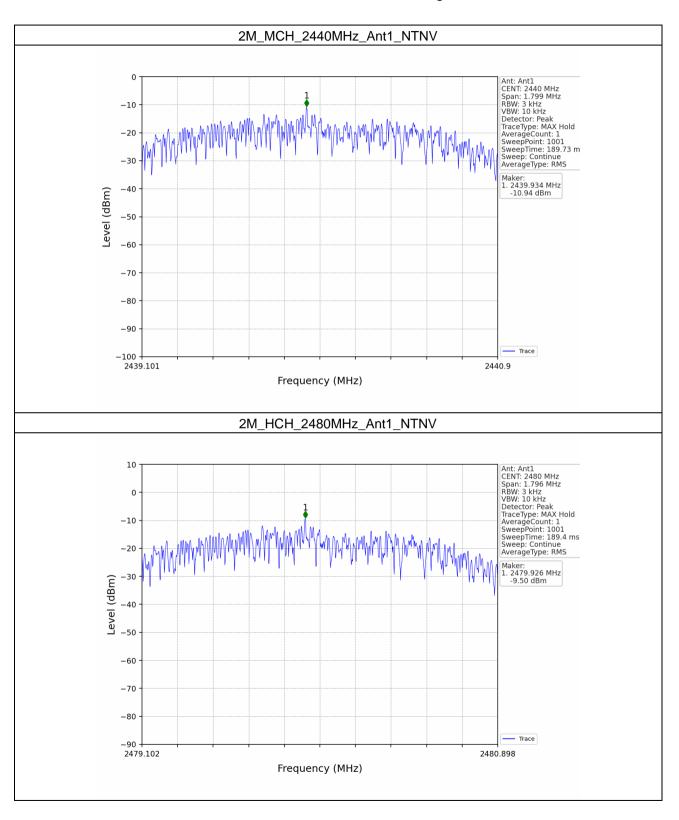
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | ТХ Туре | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|------------|--------------------|-----|-----------------------------|
| 1M | SISO | 2402 | 1 | 1.56 |
| | | 2440 | 1 | 6.03 |
| | | 2480 | 1 | 7.34 |
| | SISO | 2402 | 1 | 1.51 |
| 2M | | 2440 | 1 | 5.85 |
| | | 2480 | 1 | 7.19 |



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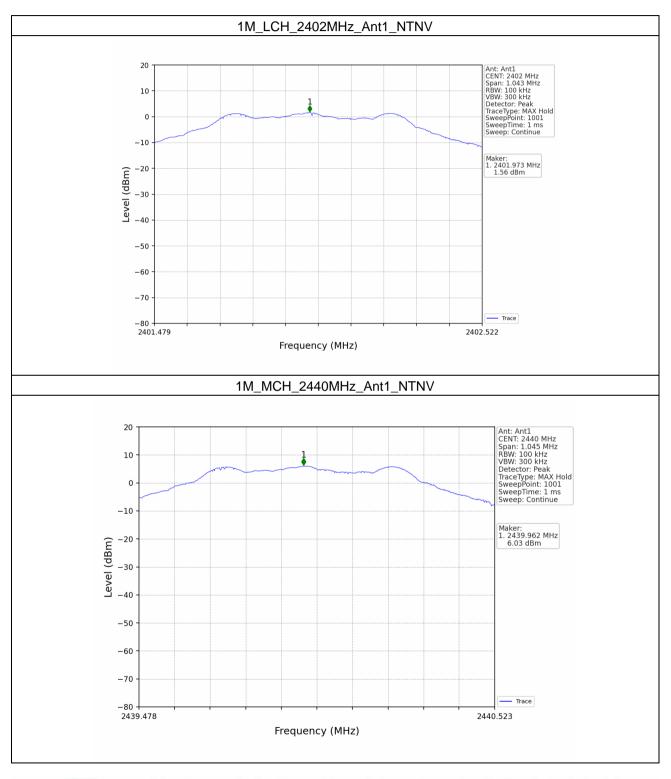
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5.1.2 Test Graph





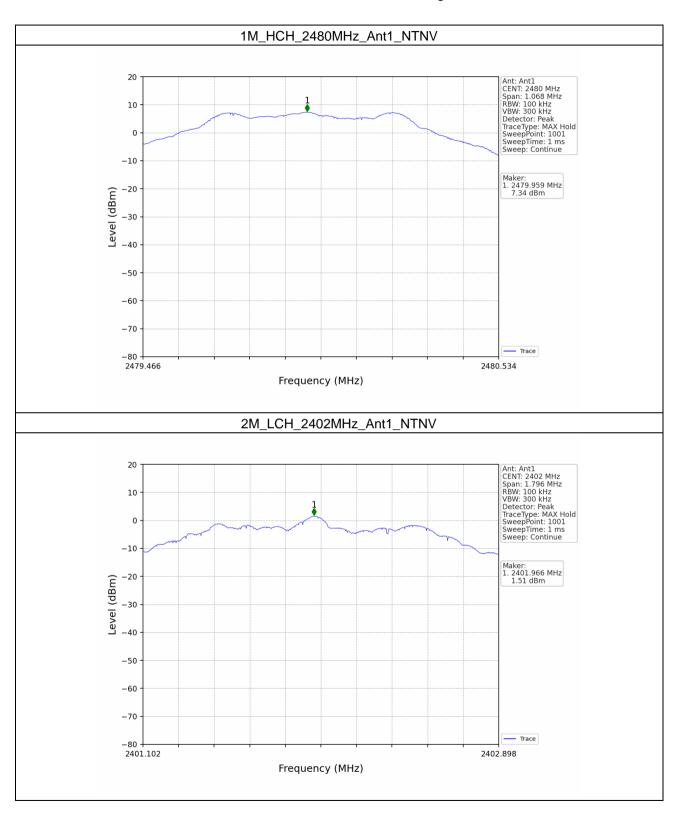
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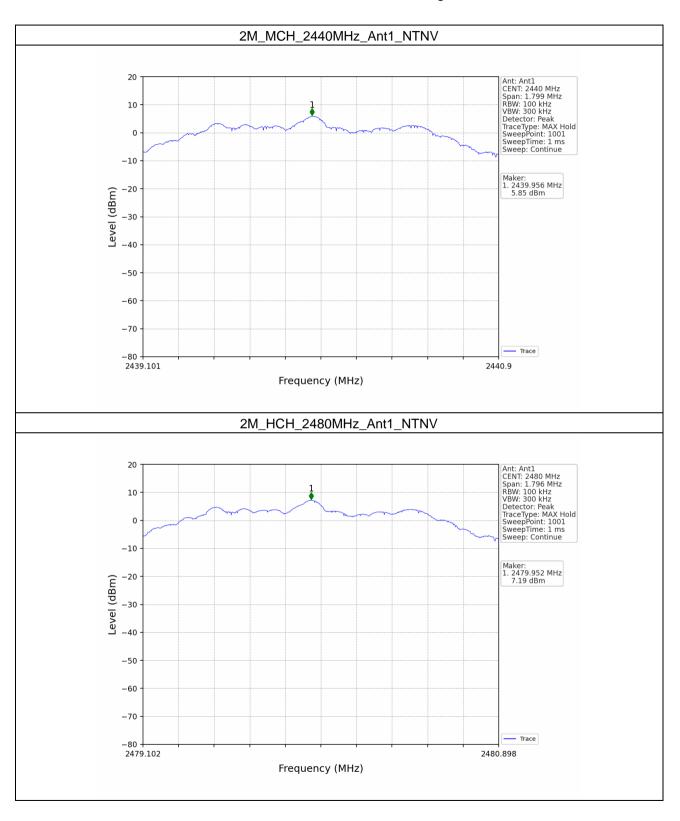
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5.2 CSE

5.2.1 Test Result

| Mode | ТХ Туре | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|------------|--------------------|-----|-----------------------------|----------------|---------|
| 1M | SISO | 2402 | 1 | 7.34 | -12.66 | Pass |
| | | 2440 | 1 | 7.34 | -12.66 | Pass |
| | | 2480 | 1 | 7.34 | -12.66 | Pass |
| 2M | SISO | 2402 | 1 | 7.19 | -12.81 | Pass |
| | | 2440 | 1 | 7.19 | -12.81 | Pass |
| | | 2480 | 1 | 7.19 | -12.81 | Pass |



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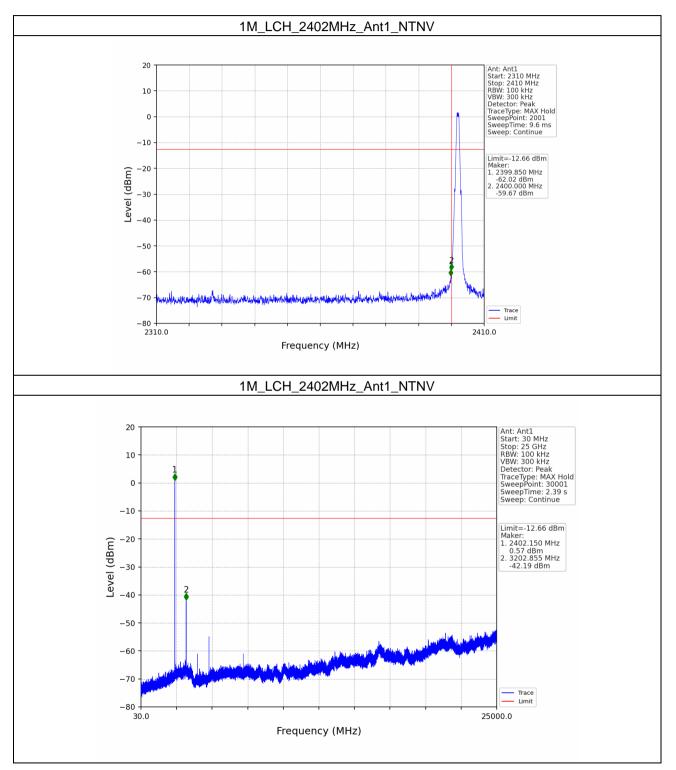
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5.2.2 Test Graph





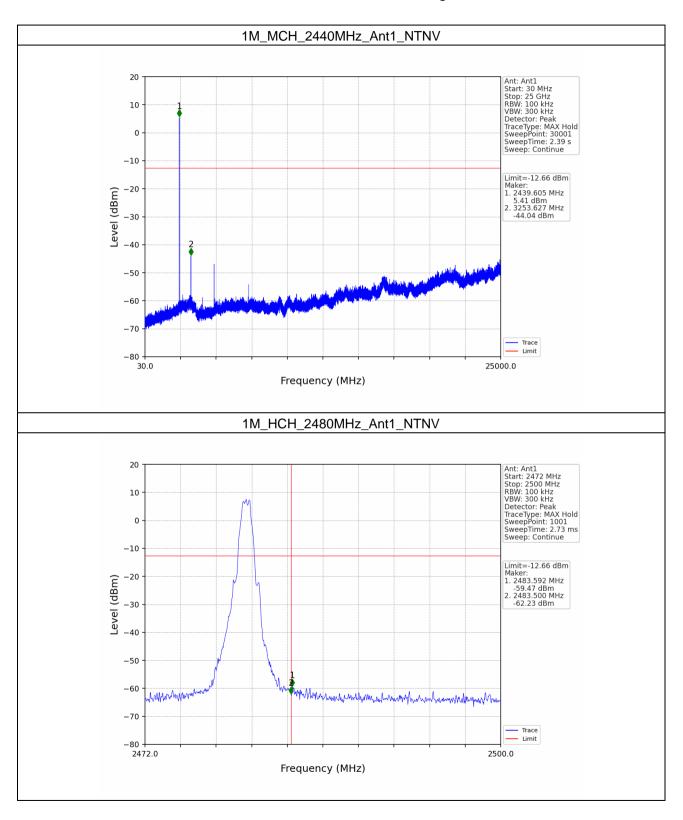
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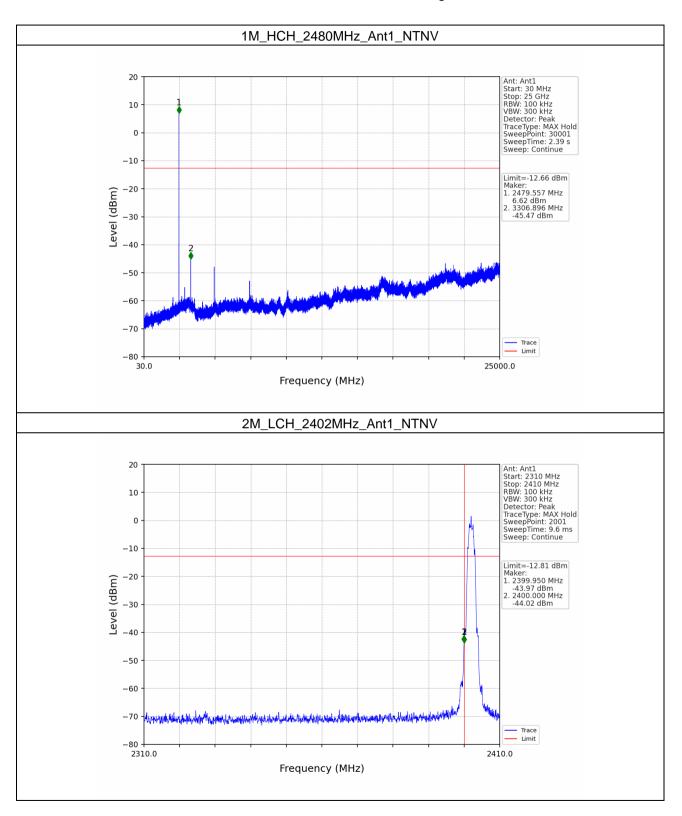
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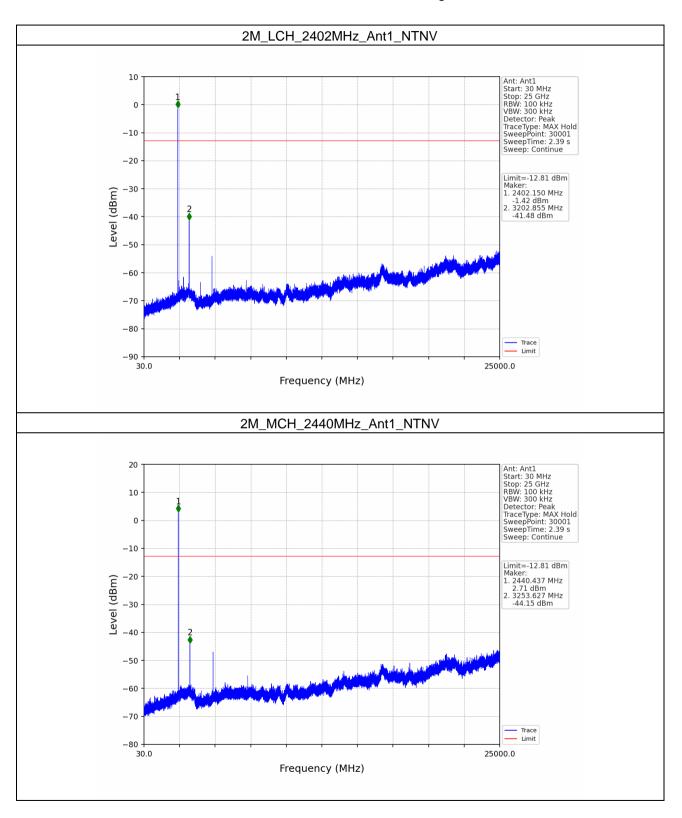


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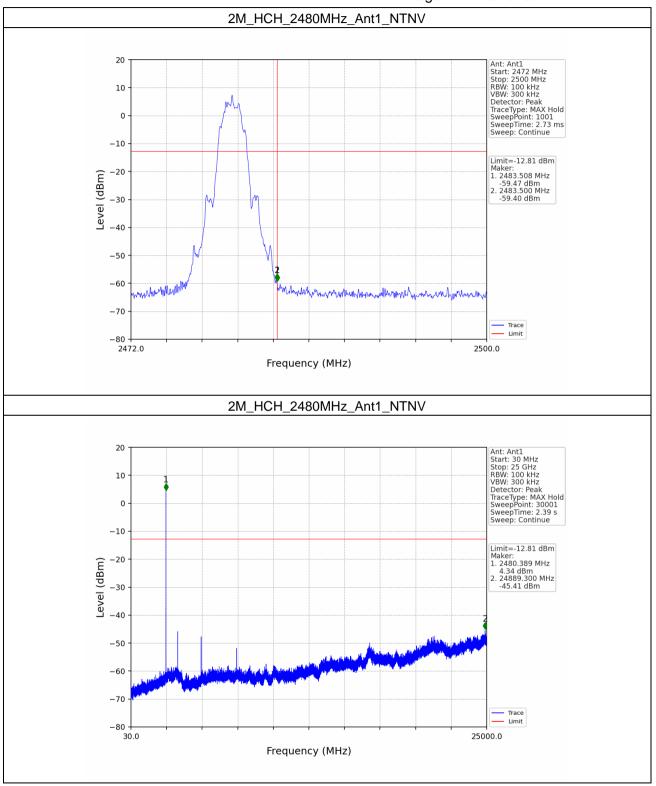


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