RF TEST REPORT

For

Shenzhen LinkedSparx Technology Co., Ltd. Product Name: Smart ambient light string

Test Model(s).: LS-S200

Report Reference No. : POCE240105001RF001

FCC ID : 2A82TLS-S200

Applicant's Name : Shenzhen LinkedSparx Technology Co., Ltd.

Address : 606, 82, 4th Industrial Park, Tantou, Songgang, Bao'an District, Shenzhen

Testing Laboratory: Shenzhen POCE Technology Co., Ltd.

Address 102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,

Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : January 5, 2024

Date of Test : January 5, 2024 to January 8, 2024

Data of Issue : January 8, 2024

Result : Pass

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Revision History Of Report

| Version | Description | REPORT No. | Issue Date | |
|---------|-------------|--------------------|-----------------|--|
| V1.0 | Original | POCE240105001RF001 | January 8, 2024 | |
| | 1 | | | |
| | | | | |
| | | | | |
| 1 | ~C | -00 | | |

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

| Compiled by: | Supervised by: | Approved by: |
|-------------------------|-----------------------------|----------------------|
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| 1. | -6DB BANDWIDTH | 43 |
|----|------------------------|----|
| | DUTY CYCLE | |
| | PEAK OUTPUT POWER | |
| | POWER SPECTRAL DENSITY | |
| | BANDEDGE | |
| | Spurious Emission | |



1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

| Item | Standard | Method | Requirement | Result |
|---|-----------------------|--|-------------------------------------|--------|
| Antenna requirement | 47 CFR Part 15.247 | | 47 CFR 15.203 | Pass |
| Conducted Emission at AC power line | 47 CFR Part 15.247 | ANSI C63.10-2013 section 6.2 | 47 CFR 15.207(a) | Pass |
| Occupied Bandwidth | 47 CFR Part 15.247 | ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(a)(2) | Pass |
| Maximum Conducted Output Power | 47 CFR Part 15.247 | ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(b)(3) | Pass |
| Power Spectral Density | 47 CFR Part 15.247 | ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(e) | Pass |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15.247 | ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |

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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen LinkedSparx Technology Co., Ltd.

Address : 606, 82, 4th Industrial Park, Tantou, Songgang, Bao'an District, Shenzhen

Manufacturer : Shenzhen LinkedSparx Technology Co., Ltd.

Address : 606, 82, 4th Industrial Park, Tantou, Songgang, Bao'an District, Shenzhen

2.2 Description of Device (EUT)

| Smart ambient light string |
|---|
| LS-S200 |
| ,LS-50,LS-S100,LS-300,LS-400,LS-500,LS-600,LS-700,LS-800,LS-900,LS-1000,VS-50,VS-100,VS-200,VS-300,VS-400,VS-500,VS-600,VS-700,VS-800,VS-900,VS-1000 |
| The product has many models, only the model name is different, and the other parts such as the circuit principle, pcb and electrical structure are the same |
| LinkedSparx、VisionSync、SooPii |
| DC 5V/2A from adapter |
| 2402MHz to 2480MHz |
| 40 |
| GFSK |
| PCB |
| 1.85 dBi |
| V1.0 |
| V1.0 |
| |

Remark: The Antenna Gain is supplied by the customer. POCE is not responsible for this data and the related calculations associated with it

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

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Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see

| Test channel | Frequency (MHz) | 1 |
|-----------------|-----------------|---|
| rest channel | BLE | |
| Lowest channel | 2402MHz | |
| Middle channel | 2440MHz | |
| Highest channel | 2480MHz | |

2.3 Description of Test Modes

| No | Title | Description |
|-----|-----------------|---|
| TM1 | Lowest channel | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |
| TM2 | Middle channel | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |
| TM3 | Highest channel | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |

2.4 Description of Support Units

| Title | Title Manufacturer | | Serial No. |
|---------------|--------------------|-------------|------------|
| AC-DC adapter | HUAWEI TECHNOLOGY | HW100400C01 | |

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2.5 Equipments Used During The Test

| Conducted Emission at AC power line | | | | | | | |
|-------------------------------------|--------------------|---|-----------------------------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| loop antenna | EVERFINE | LLA-2 | 80900L-C | 2023-02-27 | 2024-02-26 | | |
| Power absorbing | SCHWARZ | MESS- | 1 | 2023-02-28 | 2024-02-27 | | |
| clamp | BECK | ELEKTRONIK | / | 2023-02-20 | 2024-02-21 | | |
| Electric Network | SCHWARZ BECK | CAT5 8158 | CAT5 8158#207 | 1 | 1 | | |
| Cable | SCHWARZ BECK | 1 | POO | 2023-12-27 | 2024-12-26 | | |
| Pulse Limiter | SCHWARZ BECK | VTSD 9561-F Pulse limiter 10dB Ateennator | 561-G071 | 2023-02-27 | 2024-02-26 | | |
| 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | | / | | |
| Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | ID:1164.6607K 03-102109- MH | 2023-06-13 | 2024-06-12 | | |
| L.I.S.N | R&S | ESH3-Z5 | 831.5518.52 | 2023-12-12 | 2024-12-11 | | |

| Occupied Bandwidth | |
|--------------------------------------|---|
| Maximum Conducted Output Powe | r |
| Power Spectral Density | |

| Emissions in non-restricted frequency bands | | | | | | | | | | |
|---|--|-------------------------|--------------|------------|--------------|--|--|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | | | |
| RF Test Software | TACHOY | RTS-01 | V2.0.0.0 | 1 | GI | | | | | |
| High Pass filter | ZHINAN | OQHPF1-M1.5- 18G-224 | 6210075 | 18 | 1 | | | | | |
| Power divider | MIDEWEST | PWD-2533 | SMA-79 | 2023-05-11 | 2026-05-10 | | | | | |
| DC power | HP | 66311B | 38444359 | / | 1 | | | | | |
| RF Sensor Unit | Tachoy Information Technology(she nzhen) Co.,Ltd. | TR1029-2 | 000001 | 1 | POCK | | | | | |
| Wideband radio communication tester | R&S | CMW500 | 113410 | 2023-06-13 | 2024-06-12 | | | | | |
| Vector signal generator | Keysight | N5181A | MY48180415 | 2023-11-09 | 2024-11-08 | | | | | |
| Signal generator | Keysight | N5182A | MY50143455 | 2023-11-09 | 2024-11-08 | | | | | |
| Spectrum Analyzer | Keysight | N9020A | MY53420323 | 2023-12-12 | 2024-12-11 | | | | | |



Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)

| Emissions in nequenc | inissions in requercy bands (above 10112) | | | | | | | | |
|-------------------------------------|---|-------------------------|----------------------------|------------|--------------|--|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | | |
| EMI Test software | Farad | EZ -EMC | V1.1.42 | / | 1 | | | | |
| Positioning Controller | 1 | MF-7802 | 1 | / | / | | | | |
| High Pass filter | ZHINAN | OQHPF1-M1.5- 18G-224 | 6210075 | 1 | 1 | | | | |
| Amplifier(18-40G) | COM-POWER | AH-1840 | 10100008-1 | 2022-04-05 | 2025-04-04 | | | | |
| Horn antenna | COM-POWER | AH-1840 (18-40G) | 10100008 | 2023-04-05 | 2025-04-04 | | | | |
| Loop antenna | ZHINAN | ZN30900C | ZN30900C | 2021-07-05 | 2024-07-04 | | | | |
| Cable(LF)#2 | Schwarzbeck | 1 | 1 | 2023-02-27 | 2024-02-26 | | | | |
| Cable(LF)#1 | Schwarzbeck | 1 | 1 | 2023-02-27 | 2024-02-26 | | | | |
| Cable(HF)#2 | Schwarzbeck | AK9515E | 96250 | 2023-02-28 | 2024-02-27 | | | | |
| Cable(HF)#1 | Schwarzbeck | SYV-50-3-1 | 1 | 2023-02-27 | 2024-02-26 | | | | |
| Power amplifier(LF) | Schwarzbeck | BBV9743 | 9743-151 | 2023-06-13 | 2024-06-12 | | | | |
| Power amplifier(HF) | Schwarzbeck | BBV9718 | 9718-282 | 2023-06-13 | 2024-06-12 | | | | |
| Wideband radio communication tester | R&S | CMW500 | 113410 | 2023-06-13 | 2024-06-12 | | | | |
| Spectrum Analyzer | R&S | FSP30 | 1321.3008K40 -101729-jR | 2023-06-14 | 2024-06-13 | | | | |
| Horn Antenna | Sunol Sciences | DRH-118 | A091114 | 2023-05-13 | 2025-05-12 | | | | |
| Broadband Antenna | Sunol Sciences | JB6 Antenna | A090414 | 2023-05-21 | 2025-05-20 | | | | |
| Test Receiver | R&S | ESCI | 102109 | 2023-06-13 | 2024-06-12 | | | | |

2.6 Statement Of The Measurement Uncertainty

| Test Item | Measurement Uncertainty | | | |
|---|---|--|--|--|
| Conducted Disturbance (0.15~30MHz) | ±3.41dB | | | |
| Occupied Bandwidth | ±3.63% | | | |
| RF conducted power | ±0.733dB | | | |
| RF power density | ±0.234% | | | |
| Conducted Spurious emissions | ±1.98dB | | | |
| Radiated Emission (Above 1GHz) | ±5.46dB | | | |
| Radiated Emission (Below 1GHz) | ±5.79dB | | | |
| Note: (1) This uncertainty represents an expanded u | ncertainty expressed at approximately the 95% | | | |

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

2.7 Identification of Testing Laboratory

| Company Name: | Shenzhen POCE Technology Co., Ltd. |
|---------------|--|
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |

Identification of the Responsible Testing Location

| <u>'</u> | • |
|--------------------------------|--|
| Company Name: | Shenzhen POCE Technology Co., Ltd. |
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |
| FCC Registration Number: | 0032847402 |
| Designation Number: | CN1342 |
| Test Firm Registration Number: | 778666 |
| A2LA Certificate Number: | 6270.01 |

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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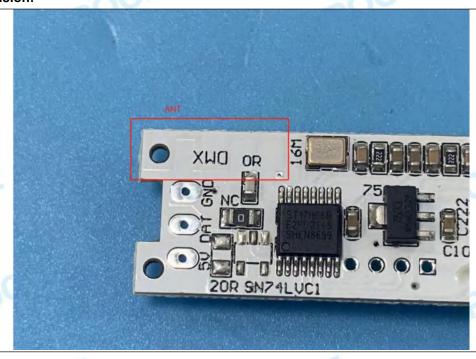
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

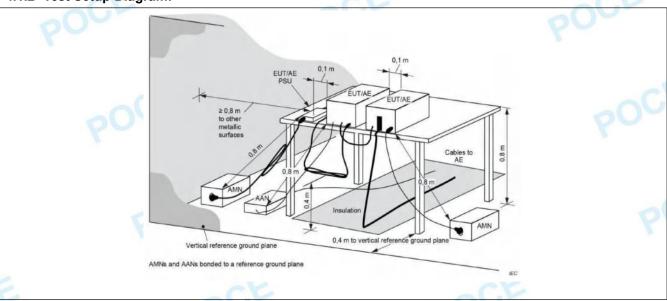
4.1 Conducted Emission at AC power line

| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). | | | | | | | |
|-------------------|--|------------------------|-----------|--|--|--|--|--|
| Test Limit: | Frequency of emission (MHz) | Conducted limit (dBµV) | | | | | | |
| | | Quasi-peak | Average | | | | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | |
| | 0.5-5 | 56 | 46 | | | | | |
| | 5-30 60 50 | | | | | | | |
| CE | *Decreases with the logarithm of the frequency. | | | | | | | |
| Test Method: | ANSI C63.10-2013 section 6.2 | | | | | | | |
| Procedure: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | | | | | | |

4.1.1 E.U.T. Operation:

| Operating Enviro | onment: | | | AU | | 000 |
|------------------|---------|-----|-----------|--------|-----------------------|---------|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | | TM1 | | | | |
| Final test mode: | | TM1 | | | | |

4.1.2 Test Setup Diagram:



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12

29.9620

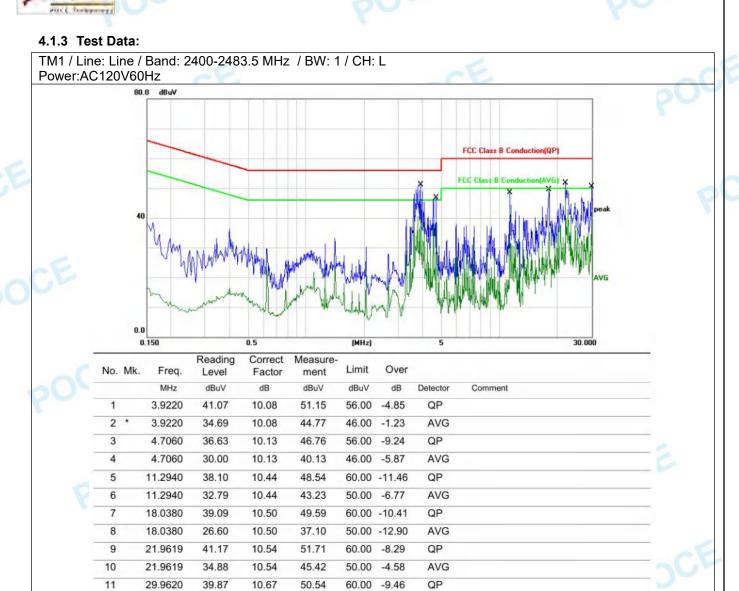
31.19

10.67

41.86

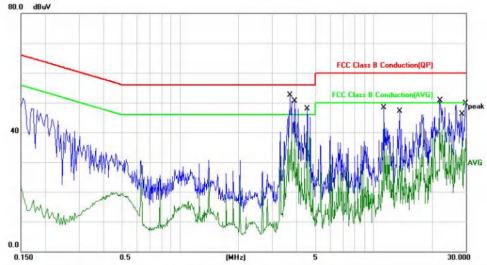
50.00 -8.14

AVG





TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L Power:AC120V60Hz



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 3.6820 | 42.44 | 10.06 | 52.50 | 56.00 | -3.50 | QP | |
| 2 | * | 3.9220 | 33.65 | 10.08 | 43.73 | 46.00 | -2.27 | AVG | |
| 3 | | 4.5460 | 37.72 | 10.11 | 47.83 | 56.00 | -8.17 | QP | |
| 4 | | 4.5460 | 30.60 | 10.11 | 40.71 | 46.00 | -5.29 | AVG | |
| 5 | | 11.2940 | 37.91 | 10.43 | 48.34 | 60.00 | -11.66 | QP | |
| 6 | | 11.2940 | 32.64 | 10.43 | 43.07 | 50.00 | -6.93 | AVG | |
| 7 | | 13.6460 | 36.72 | 10.44 | 47.16 | 60.00 | -12.84 | QP | |
| 8 | | 13.6460 | 21.27 | 10.44 | 31.71 | 50.00 | -18.29 | AVG | |
| 9 | | 21.9619 | 35.51 | 10.50 | 46.01 | 50.00 | -3.99 | AVG | |
| 10 | | 22.1180 | 40.23 | 10.50 | 50.73 | 60.00 | -9.27 | QP | |
| 11 | | 28.7060 | 27.50 | 10.59 | 38.09 | 50.00 | -11.91 | AVG | |
| 12 | | 29.9620 | 39.11 | 10.59 | 49.70 | 60.00 | -10.30 | QP | |

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement
- 4.Remark: During the test, pre-scan the 1Mbps, 2 Mbps rate, and found the 1Mbps rate which it is worse case.

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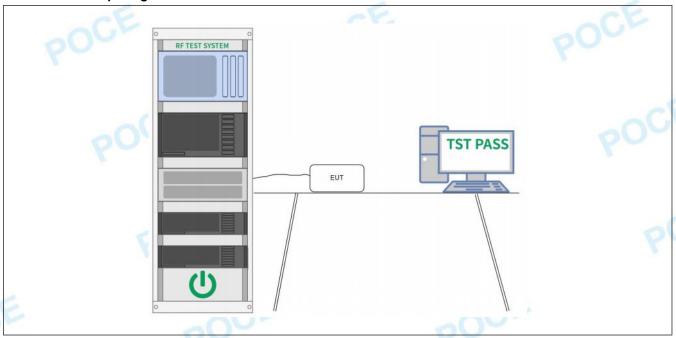
4.2 Occupied Bandwidth

| Toot Poquiroment: | 47 CED 15 247(a)(2) |
|-------------------|---|
| Test Requirement: | 47 CFR 15.247(a)(2) |
| Test Limit: | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method: | ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower |
| | frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. |

4.2.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | |
|------------------------|---------|------|-----------|--------|-----------------------|---------|--|--|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa | | |
| Pre test mode: | | TM1, | TM2, TM3 | 0 | Y | | | |
| Final test mode: | | TM1, | TM2, TM3 | | | | | |

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

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4.3 Maximum Conducted Output Power

| Test Requirement: | 47 CFR 15.247(b)(3) |
|-------------------|--|
| Test Limit: | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method: | ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi) |

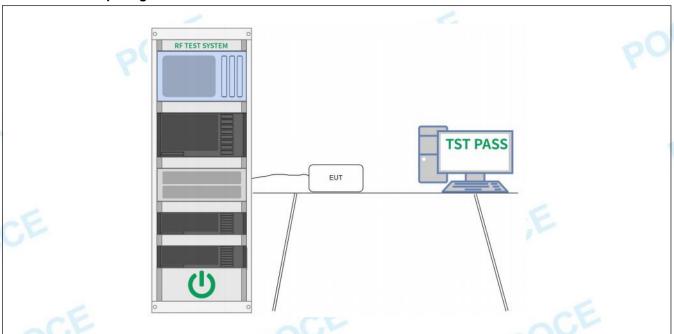
4.3.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | |
|------------------------|---------|------|-----------|--------|-----------------------|---------|--|--|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa | | |
| Pre test mode: | | TM1, | TM2, TM3 | | | | | |
| Final test mode: | 0 | TM1, | TM2, TM3 | | 000 | | | |

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4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

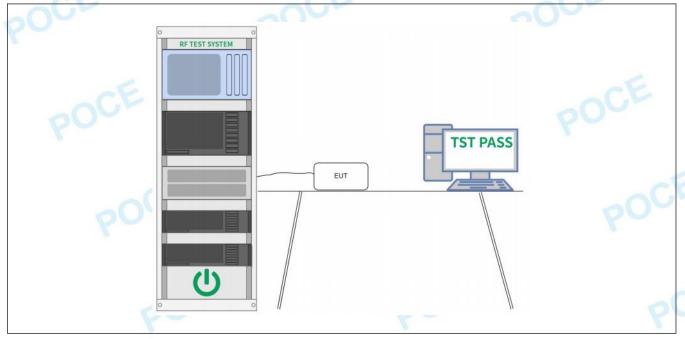
4.4 Power Spectral Density

| Test Requirement: | 47 CFR 15.247(e) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission |

4.4.1 E.U.T. Operation:

| Operating Envir | onment: | | -00 | | | |
|------------------|---------|------|-----------|--------|-----------------------|---------|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | | TM1, | TM2, TM3 | | | |
| Final test mode: | • | TM1, | TM2, TM3 | 1000 | | |

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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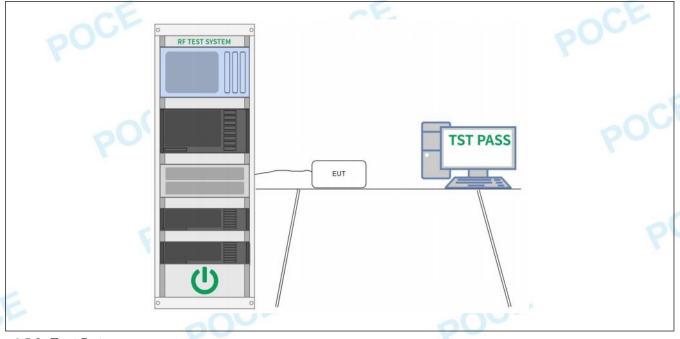
4.5 Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(d), 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. |
| Test Method: | ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3 |

4.5.1 E.U.T. Operation:

| Operating Environment | onment: | | | SE | | aE. |
|-----------------------|---------|------|-----------|--------|-----------------------|---------|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | | TM1, | TM3 | 0 | Y | |
| Final test mode: | | TM1, | TM3 | | | |

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

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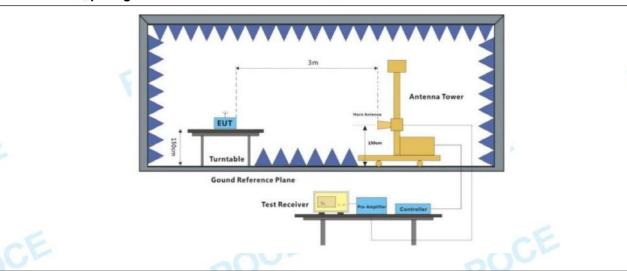
4.6 Band edge emissions (Radiated)

| Test Requirement: | restricted bands, as defin | d), In addition, radiated emissions led in § 15.205(a), must also compin § 15.209(a)(see § 15.205(c)).` | |
|-------------------|---|--|--|
| Test 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 |
| POCE | radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands is and 15.241. In the emission table about the emission limits show employing a CISPR quast 110–490 kHz and above | paragraph (g), fundamental emission this section shall not be located in 174-216 MHz or 470-806 MHz. However, the tighter limit applies at the born in the above table are based on including the first detector except for the frequents employing an average detector. | the frequency bands wever, operation within this part, e.g., §§ 15.231 and edges. measurements uency bands 9–90 kHz, ts in these three bands |
| Test Method: | ANSI C63.10-2013 section | on 6.10 | |
| | KDB 558074 D01 15.247 | | aE. |
| Procedure: | ANSI C63.10-2013 section | on 6.10.5.2 | 2000 |

4.6.1 E.U.T. Operation:

| Operating Envir | onment: | | | | | | |
|------------------|---------|------|-----------|--------|-----------------------|---------|-----|
| Temperature: | 23.2 °C | | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa | |
| Pre test mode: | | TM1, | TM3 | | -CE | | -C |
| Final test mode: | 0 | TM1, | TM3 | | 200 | | 200 |

4.6.2 Test Setup Diagram:

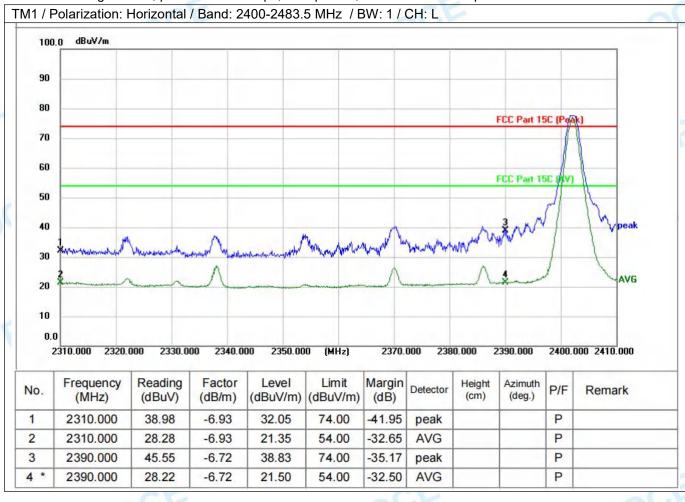


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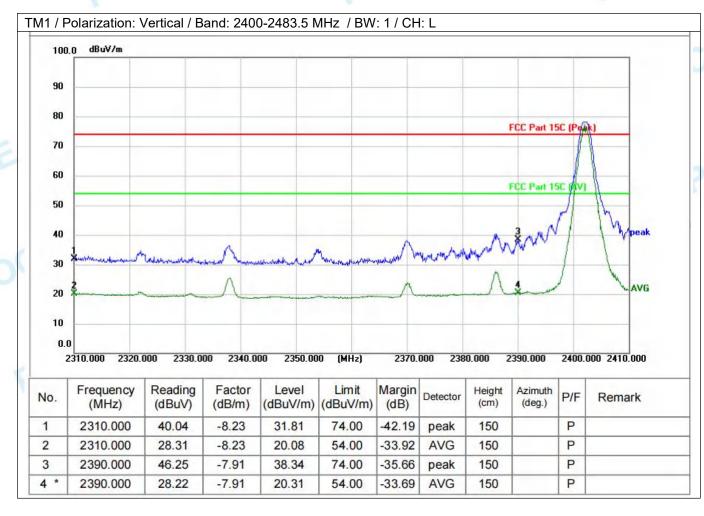


4.6.3 Test Data:

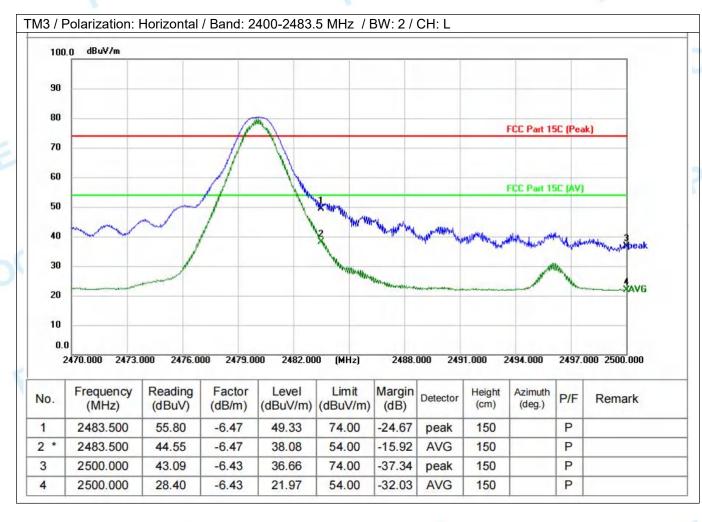
Remark: During the test, pre-scan the 1Mbps, 2 Mbps rate, and found the 1Mbps rate which it is worse case.



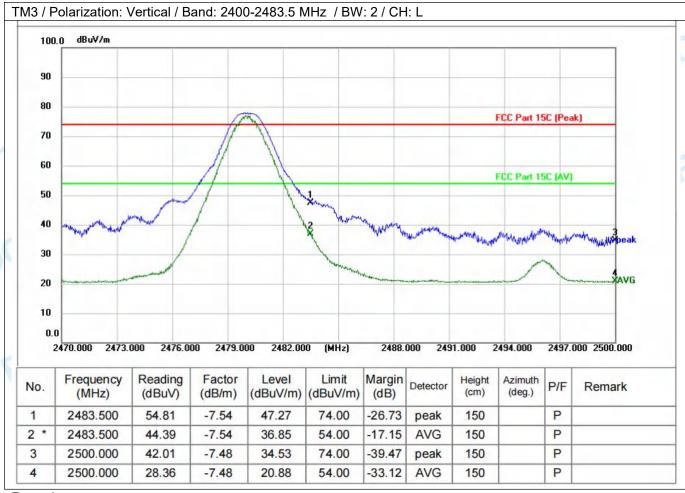












Remark:

- 1.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 2.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

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4.7 Emissions in frequency bands (below 1GHz)

| Test Requirement: | Pofor to 47 CED 15 24 | 7(d) In addition, radiated emission | as which fall in the |
|-------------------|--|--|---|
| rost requirement. | | 7(d), In addition, radiated emissior fined in § 15.205(a), must also cor | |
| 20 | | d in § 15.209(a)(see § 15.205(c)). | |
| Test Limit: | Frequency (MHz) | Field strength | Measurement |
| root Emma | Troqueriey (Wir 12) | (microvolts/meter) | distance |
| | | (merevene, meter) | (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 |
| | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | 30 | 30 |
| | 30-88 | 100 ** | 3 |
| | 88-216 | 150 ** | 3 |
| | 216-960 | 200 ** | 3 |
| | Above 960 | 500 | 3 |
| | | <u> </u> | |
| | | n paragraph (g), fundamental emis | |
| | | ler this section shall not be located | |
| | | z, 174-216 MHz or 470-806 MHz. I | |
| | and 15.241. | is permitted under other sections | or this part, e.g., 99 15.231 |
| | | have the tighter limit applies at the | hand addag |
| | | bove, the tighter limit applies at the own in the above table are based o | |
| | | asi-peak detector except for the fr | |
| | | re 1000 MHz. Radiated emission li | |
| | | ments employing an average dete | |
| T. A. M. Alexad | | | Ctor. |
| Test Method: | ANSI C63.10-2013 sec | | |
| | KDB 558074 D01 15.24 | 47 Meas Guidance v05r02 | |
| Procedure: | a. For below 1GHz. the | EUT was placed on the top of a r | otating table 0.8 meters |
| 200 | | 3 or 10 meter semi-anechoic chan | |
| | | ine the position of the highest radi | |
| | | EUT was placed on the top of a r | |
| | | 3 meter fully-anechoic chamber. T | |
| | | he position of the highest radiation | |
| | | or 10 meters away from the interfe | |
| 200 | | | |
| | | the top of a variable-height anten | na tower. |
| | | the top of a variable-height anten | |
| | | is varied from one meter to four m | eters above the ground to |
| | determine the maximur | is varied from one meter to four more value of the field strength. Both | eters above the ground to horizontal and vertical |
| | determine the maximum polarizations of the anti- | is varied from one meter to four more walue of the field strength. Both enna are set to make the measure | eters above the ground to horizontal and vertical ement. |
| | determine the maximur polarizations of the ant e. For each suspected | is varied from one meter to four more walue of the field strength. Both enna are set to make the measure emission, the EUT was arranged to | eters above the ground to horizontal and vertical ement. o its worst case and then |
| | determine the maximur polarizations of the ant e. For each suspected the antenna was tuned | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter | eters above the ground to horizontal and vertical ement. o its worst case and then rs (for the test frequency of |
| | determine the maximur polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the ante | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter | eters above the ground to horizontal and vertical ement. To its worst case and then rs (for the test frequency of and the rotatable table |
| | determine the maximur polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the antewas turned from 0 degr | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter | eters above the ground to horizontal and vertical ment. To its worst case and then rs (for the test frequency of and the rotatable table ximum reading. |
| | determine the maximur polarizations of the ant e. For each suspected the antenna was tuned below 30MHz, the antewas turned from 0 degr | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matter was set to Peak Detect Funct | eters above the ground to horizontal and vertical ment. To its worst case and then rs (for the test frequency of and the rotatable table ximum reading. |
| | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximum to the suspension of the s | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matter was set to Peak Detect Funct | eters above the ground to horizontal and vertical ement. The control its worst case and then rest for the test frequency of and the rotatable table ximum reading. |
| P | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the mattern was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d | eters above the ground to horizontal and vertical ement. The worst case and then res (for the test frequency of and the rotatable table eximum reading. The son and Specified and the limit |
| | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing of | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the mattern was set to Peak Detect Functum Hold Mode. | eters above the ground to horizontal and vertical ement. To its worst case and then rs (for the test frequency of and the rotatable table ximum reading. Ton and Specified B lower than the limit ues of the EUT would be |
| | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the mattern was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value. | eters above the ground to horizontal and vertical ement. The worst case and then res (for the test frequency of and the rotatable table ximum reading. From and Specified B lower than the limit ues of the EUT would be margin would be re- |
| P | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to a was tuned to heights 1 meter rees to 360 degrees to find the mattern was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10deg peak, quasi-peak or average me | eters above the ground to horizontal and vertical ement. The worst case and then res (for the test frequency of and the rotatable table ximum reading. From and Specified B lower than the limit ues of the EUT would be margin would be re- |
| P | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to a was tuned to heights 1 meter rees to 360 degrees to find the mattern was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10deg peak, quasi-peak or average me | eters above the ground to horizontal and vertical ement. To its worst case and then its (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then |
| F | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet h. Test the EUT in the legislations of the same polarizations. | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10dE g peak, quasi-peak or average meet. | eters above the ground to horizontal and vertical ement. To its worst case and then its (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then I, the Highest channel. |
| P | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrees. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the li. The radiation measur | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to heights from 1 meter to 4 meter to 360 degrees to find the mattern was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10de could be stopped and the peak value emissions that did not have 10de g peak, quasi-peak or average meet. owest channel, the middle channer tements are performed in X, Y, Z and X a | eters above the ground to horizontal and vertical ment. To its worst case and then res (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then I, the Highest channel. |
| E CE | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degres. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the li. The radiation measur Transmitting mode, and | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to heights from 1 meter to 4 meter to 360 degrees to find the mattern was set to Peak Detect Functium Hold Mode. of the EUT in peak mode was 10de could be stopped and the peak value emissions that did not have 10de g peak, quasi-peak or average meat. owest channel, the middle channel | eters above the ground to horizontal and vertical ment. To its worst case and then res (for the test frequency of and the rotatable table ximum reading. From and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then I, the Highest channel. Xis positioning for the the specified and the rethod the test channel. |
| E CE | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degres. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the li. The radiation measur Transmitting mode, and | is varied from one meter to four memory value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10de g peak, quasi-peak or average meet. owest channel, the middle channel ements are performed in X, Y, Z and found the X axis positioning which | eters above the ground to horizontal and vertical ment. To its worst case and then res (for the test frequency of and the rotatable table ximum reading. From and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then I, the Highest channel. Xis positioning for the the specified and the rethod the test channel. |
| | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degres. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. The radiation measur Transmitting mode, and j. Repeat above process. | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10de g peak, quasi-peak or average meat. owest channel, the middle channer ements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured. | eters above the ground to horizontal and vertical ement. To its worst case and then are (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit uses of the EUT would be a margin would be rethod as specified and then as specified and then the Highest channel. The Highest channel with it is the worst case. The discontinuity of the worst case. |
| E CE | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degres. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. The radiation measur Transmitting mode, and j. Repeat above proced Remark: 1) For emission below | is varied from one meter to four more value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meter to heights from 1 meter to 4 meter to 360 degrees to find the mattern was set to Peak Detect Funct um Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10de g peak, quasi-peak or average meat. owest channel, the middle channer ements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured 1GHz, through pre-scan found the | eters above the ground to horizontal and vertical ement. To its worst case and then are (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit uses of the EUT would be a margin would be rethod as specified and then as specified and then the Highest channel. The Highest channel with it is the worst case. The discontinuity of the worst case. |
| E CE | determine the maximur polarizations of the ante. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degrif. The test-receiver sys Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet. Test the EUT in the liable. The radiation measur Transmitting mode, and j. Repeat above proced Remark: 1) For emission below channel. Only the wors | is varied from one meter to four memory value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10df g peak, quasi-peak or average meet. owest channel, the middle channer ements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured 1GHz, through pre-scan found the transet is recorded in the report. | eters above the ground to horizontal and vertical ement. To its worst case and then its (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit ues of the EUT would be a margin would be resthod as specified and then I, the Highest channel is positioning for the it is the worst case. The worst case is the lowest |
| E P | determine the maximur polarizations of the anterest e. For each suspected the antenna was tuned below 30MHz, the anterest was turned from 0 degrest. The test-receiver system Bandwidth with Maximur g. If the emission level specified, then testing or reported. Otherwise the tested one by one using reported in a data sheet h. Test the EUT in the li. The radiation measur Transmitting mode, and j. Repeat above process Remark: 1) For emission below channel. Only the wors 2) The field strength is | is varied from one meter to four memory value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10d g peak, quasi-peak or average meet. owest channel, the middle channer ements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured 1GHz, through pre-scan found the trace is recorded in the report. calculated by adding the Antenna | eters above the ground to horizontal and vertical ement. To its worst case and then its (for the test frequency of and the rotatable table ximum reading. For and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then I, the Highest channel is positioning for the it is the worst case. For a worst case is the lowest Factor, Cable Factor & |
| E P | determine the maximur polarizations of the anterest e. For each suspected the antenna was tuned below 30MHz, the anterest was turned from 0 degrest. The test-receiver system Bandwidth with Maximur g. If the emission level specified, then testing of reported. Otherwise the tested one by one using reported in a data sheet h. Test the EUT in the li. The radiation measur Transmitting mode, and j. Repeat above proced Remark: 1) For emission below channel. Only the wors 2) The field strength is Preamplifier. The basic | is varied from one meter to four memory value of the field strength. Both enna are set to make the measure emission, the EUT was arranged to heights from 1 meter to 4 meterna was tuned to heights 1 meter rees to 360 degrees to find the matem was set to Peak Detect Functum Hold Mode. of the EUT in peak mode was 10d could be stopped and the peak value emissions that did not have 10df g peak, quasi-peak or average meet. owest channel, the middle channer ements are performed in X, Y, Z and found the X axis positioning which dures until all frequencies measured 1GHz, through pre-scan found the transet is recorded in the report. | eters above the ground to horizontal and vertical ement. To its worst case and then res (for the test frequency of and the rotatable table ximum reading. To and Specified B lower than the limit ues of the EUT would be a margin would be rethod as specified and then the Highest channel. The Highest channel wis positioning for the it is the worst case. The worst case is the lowest factor, Cable Factor & is as follows: |

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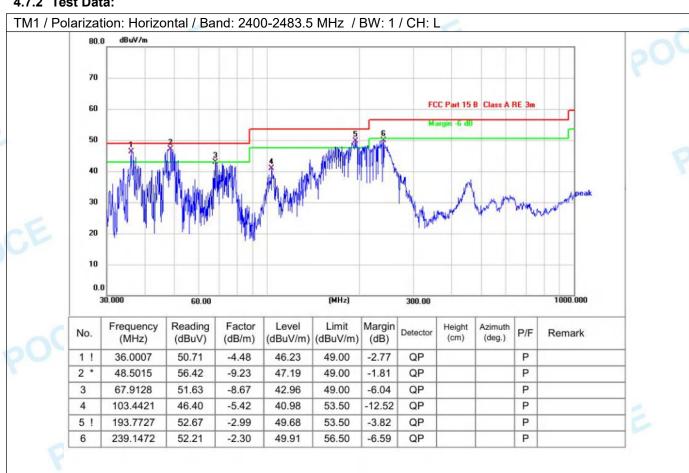
Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

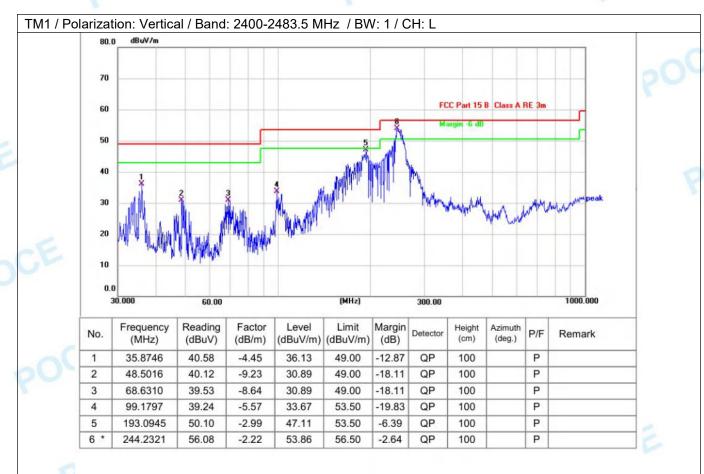
| | • | | | | | | |
|-----------|----------|---------|-----|-----------|--------|-----------------------|---------|
| Operatir | ng Envir | onment: | | CE | | OCE | |
| Tempera | ature: | 23.2 °C | OL | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test | mode: | | TM1 | | | 1 | |
| Final tes | st mode: | | TM1 | | | | |

4.7.2 Test Data:



POCE





4.8 Emissions in frequency bands (above 1GHz)

| Test Requirement: | 15.205(a), must also con | ssions which fall in the restricte | |
|-------------------|---|---|---|
| | 15.209(a)(see § 15.205(d | e)).` | |
| Test 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 |
| | ** Except as provided in radiators operating under 54-72 MHz, 76-88 MHz, these frequency bands is and 15.241. In the emission table about | paragraph (g), fundamental em r this section shall not be locate 174-216 MHz or 470-806 MHz s permitted under other section ove, the tighter limit applies at t | ed in the frequency bands . However, operation within s of this part, e.g., §§ 15.231 he band edges. |
| POCE | employing a CISPR quas 110–490 kHz and above | n in the above table are based si-peak detector except for the 1000 MHz. Radiated emission ents employing an average det | frequency bands 9–90 kHz, limits in these three bands |
| Test Method: | ANSI C63.10-2013 section KDB 558074 D01 15.247 | | |
| | 360 degrees to determine b. For above 1GHz, the E above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on the d. The antenna height is determine the maximum polarizations of the anter e. For each suspected en the antenna was tuned to | or 10 meter semi-anechoic char e the position of the highest race. EUT was placed on the top of a meter fully-anechoic chamber. e position of the highest radiation 10 meters away from the interface top of a variable-height anter varied from one meter to four race value of the field strength. Both an are set to make the measuraission, the EUT was arranged to heights from 1 meter to 4 meters are was tuned to heights 1 meters. | diation. a rotating table 1.5 meters The table was rotated 360 on. ference-receiving antenna, enna tower. meters above the ground to h horizontal and vertical rement. d to its worst case and then ters (for the test frequency of |
| | | es to 360 degrees to find the m | |
| | f. The test-receiver syste Bandwidth with Maximun g. If the emission level of | m was set to Peak Detect Fund n Hold Mode. i the EUT in peak mode was 10 | ction and Specified OdB lower than the limit |
| | reported. Otherwise the e tested one by one using reported in a data sheet. | uld be stopped and the peak vemissions that did not have 100 peak, quasi-peak or average mest channel, the middle chanr | dB margin would be re- nethod as specified and then |
| | i. The radiation measurer Transmitting mode, and f j. Repeat above procedu Remark: | ments are performed in X, Y, Z found the X axis positioning wh res until all frequencies measu | axis positioning for nich it is the worst case. red was complete. |
| | channel. Only the worst of 2) The field strength is can be Preamplifier. The basic e | GHz, through pre-scan found the case is recorded in the report. Alculated by adding the Antenna quation with a sample calculation Reading + Antenna Factor + | a Factor, Cable Factor & ion is as follows: |

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Report No.: POCE240105001RF001

Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

| Operating Envir | onment: | | CE | | OCE | |
|------------------|---------|------|-----------|--------|-----------------------|---------|
| Temperature: | 23.2 °C | 0 | Humidity: | 53.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | | TM1, | TM2, TM3 | | | |
| Final test mode: | | TM1, | TM2, TM3 | | | |

4.8.2 Test Data:

Remark: During the test, pre-scan the 1Mbps, 2 Mbps rate, and found the 1Mbps rate which it is worse case.

| TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L | | | | | | | | | | | |
|--|--------------------|-------------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
| 1 | 4804.000 | 37.20 | -0.90 | 36.30 | 74.00 | -37.70 | peak | | | Р | |
| 2 | 4804.000 | 26.85 | -0.90 | 25.95 | 54.00 | -28.05 | AVG | | | Р | |
| 3 | 7206.000 | 35.48 | 4.13 | 39.61 | 74.00 | -34.39 | peak | | | Р | |
| 4 | 7206.000 | 25.80 | 4.13 | 29.93 | 54.00 | -24.07 | AVG | | | Р | |
| 5 | 9608.000 | 35.14 | 8.09 | 43.23 | 74.00 | -30.77 | peak | | | Р | |
| 6 * | 9608.000 | 24.83 | 8.09 | 32.92 | 54.00 | -21.08 | AVG | | | Р | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4804.000 | 40.44 | -0.28 | 40.16 | 74.00 | -33.84 | peak | | | Р | |
| 2 | 4804.000 | 27.49 | -0.28 | 27.21 | 54.00 | -26.79 | AVG | | | Р | |
| 3 | 7206.000 | 37.03 | 4.09 | 41.12 | 74.00 | -32.88 | peak | | | Р | |
| 4 | 7206.000 | 26.01 | 4.09 | 30.10 | 54.00 | -23.90 | AVG | | | Р | |
| 5 | 9608.000 | 35.73 | 8.02 | 43.75 | 74.00 | -30.25 | peak | | | Р | |
| 6 * | 9608.000 | 25.08 | 8.02 | 33.10 | 54.00 | -20.90 | AVG | | | Р | |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4880.000 | 37.07 | -0.65 | 36.42 | 74.00 | -37.58 | peak | | | Р | |
| 2 | 4880.000 | 26.64 | -0.65 | 25.99 | 54.00 | -28.01 | AVG | | | Р | |
| 3 | 7320.000 | 36.68 | 4.31 | 40.99 | 74.00 | -33.01 | peak | | | Р | |
| 4 | 7320.000 | 25.60 | 4.31 | 29.91 | 54.00 | -24.09 | AVG | | | Р | |
| 5 | 9760.000 | 34.66 | 8.09 | 42.75 | 74.00 | -31.25 | peak | | | Р | |
| 6 * | 9760.000 | 25.05 | 8.09 | 33.14 | 54.00 | -20.86 | AVG | | | Р | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4880.000 | 37.80 | -0.03 | 37.77 | 74.00 | -36.23 | peak | | | Р | |
| 2 | 4880.000 | 26.70 | -0.03 | 26.67 | 54.00 | -27.33 | AVG | | | Р | |
| 3 | 7320.000 | 35.80 | 4.36 | 40.16 | 74.00 | -33.84 | peak | | | Р | |
| 4 | 7320.000 | 25.51 | 4.36 | 29.87 | 54.00 | -24.13 | AVG | | | Р | |
| 5 | 9760.000 | 34.95 | 8.12 | 43.07 | 74.00 | -30.93 | peak | | | Р | |
| 6 * | 9760.000 | 24.77 | 8.12 | 32.89 | 54.00 | -21.11 | AVG | | | Р | |

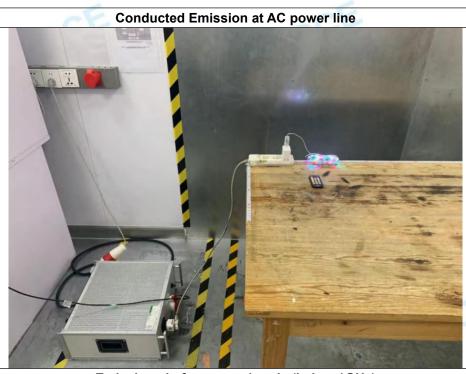


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4960.000 | 37.00 | -0.37 | 36.63 | 74.00 | -37.37 | peak | | | Р | |
| 2 | 4960.000 | 26.41 | -0.37 | 26.04 | 54.00 | -27.96 | AVG | | | Р | |
| 3 | 7440.000 | 35.73 | 4.49 | 40.22 | 74.00 | -33.78 | peak | | | Р | |
| 4 | 7440.000 | 25.68 | 4.49 | 30.17 | 54.00 | -23.83 | AVG | | | Р | |
| 5 | 9920.000 | 34.70 | 8.08 | 42.78 | 74.00 | -31.22 | peak | | | Р | |
| 6 * | 9920.000 | 25.29 | 8.08 | 33.37 | 54.00 | -20.63 | AVG | | | Р | |

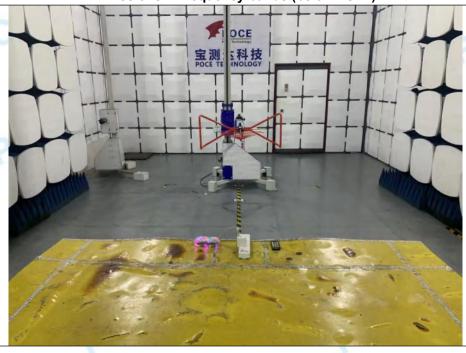
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|---------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4960.000 | 38.13 | 0.23 | 38.36 | 74.00 | -35.64 | peak | | | Р | |
| 2 | 4960.000 | 26.69 | 0.23 | 26.92 | 54.00 | -27.08 | AVG | | | Р | |
| 3 | 7440.000 | 37.07 | 4.64 | 41.71 | 74.00 | -32.29 | peak | | | Р | |
| 4 | 7440.000 | 25.87 | 4.64 | 30.51 | 54.00 | -23.49 | AVG | | | Р | |
| 5 | 9920.000 | 36.99 | 8.23 | 45.22 | 74.00 | -28.78 | peak | | | Р | |
| 6 * | 9920.000 | 25.49 | 8.23 | 33.72 | 54.00 | -20.28 | AVG | | | Р | |



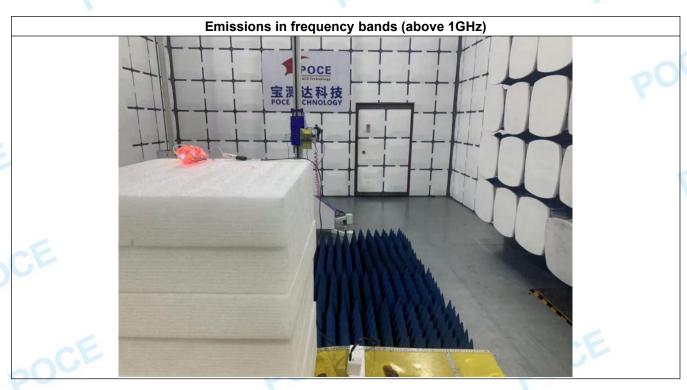
5 TEST SETUP PHOTOS



Emissions in frequency bands (below 1GHz)



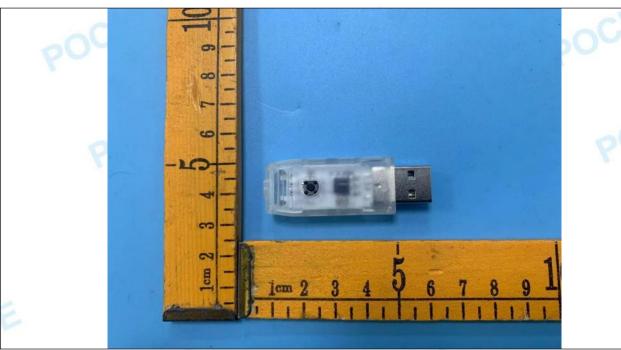




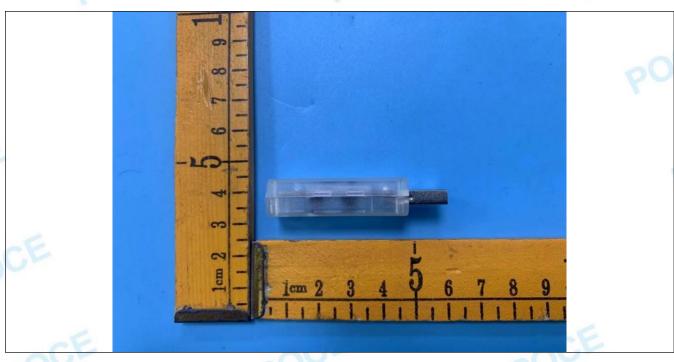


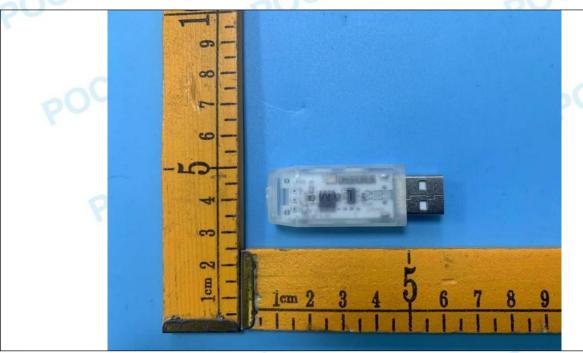
6 PHOTOS OF THE EUT



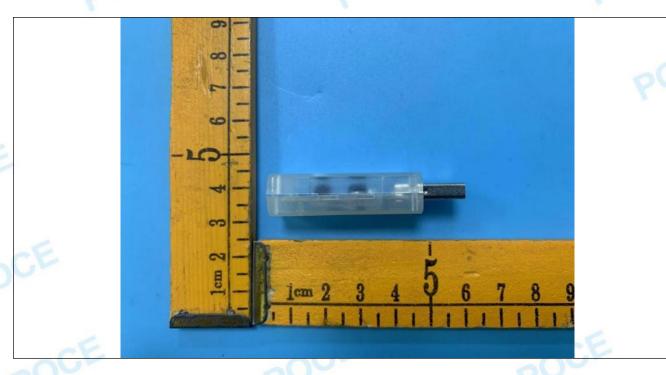








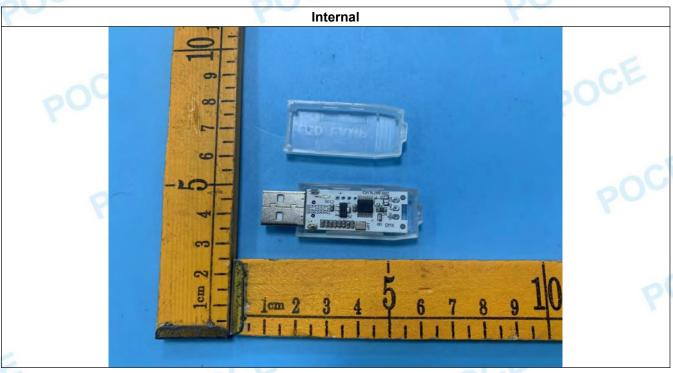




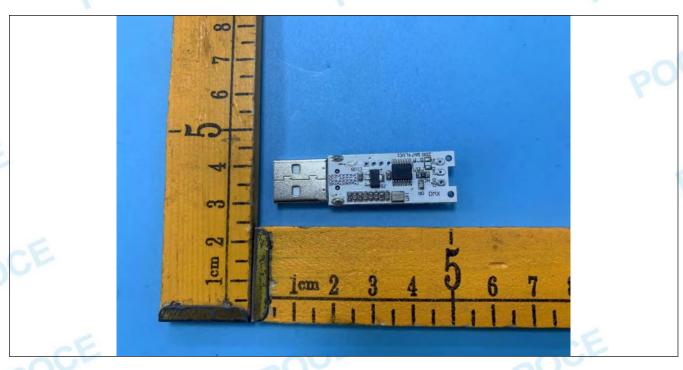


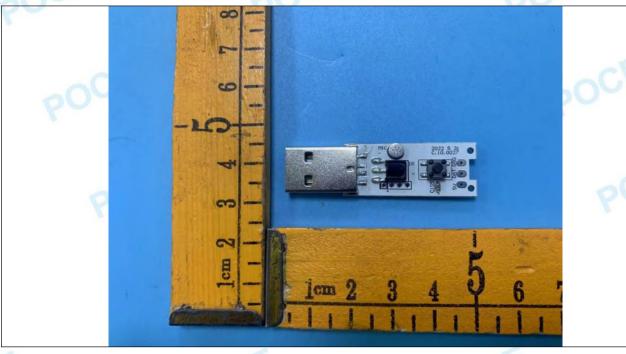




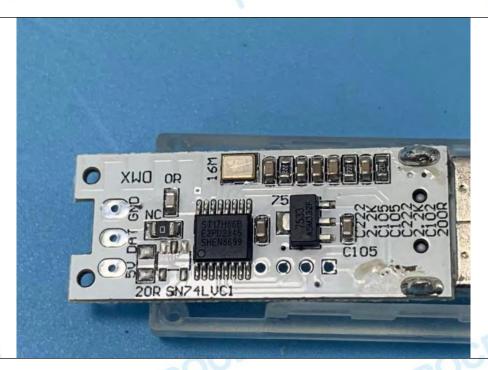


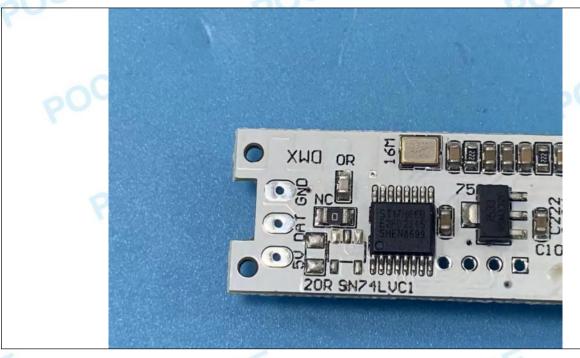














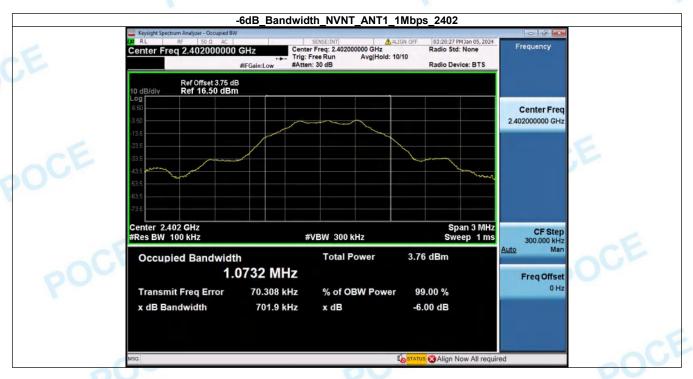
Appendix



HT240102011--LS-S200--BLE--FCC FCC_BLE (Part15.247) Test Data

1. -6dB Bandwidth

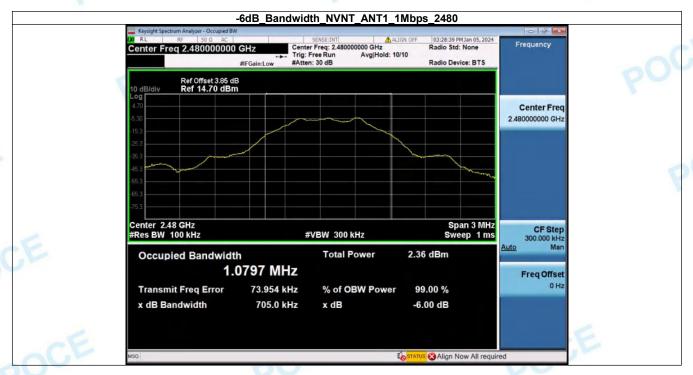
| Condition | Antenna | Rate | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | 701.88 | 500 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | 701.13 | 500 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | 704.98 | 500 | Pass |
| NVNT | ANT1 | 2Mbps | 2402 | 1181.63 | 500 | Pass |
| NVNT | ANT1 | 2Mbps | 2440.00 | 1179.42 | 500 | Pass |
| NVNT | ANT1 | 2Mbps | 2480 | 1176.96 | 500 | Pass |

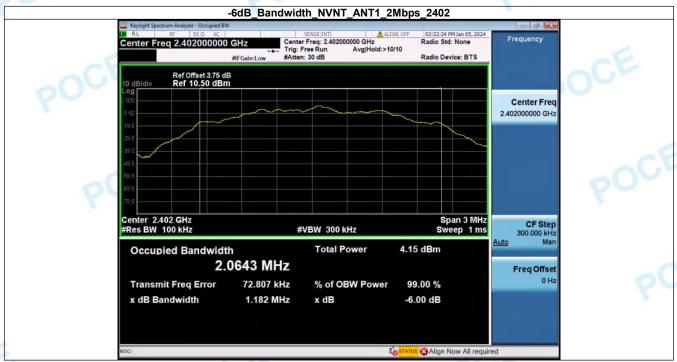




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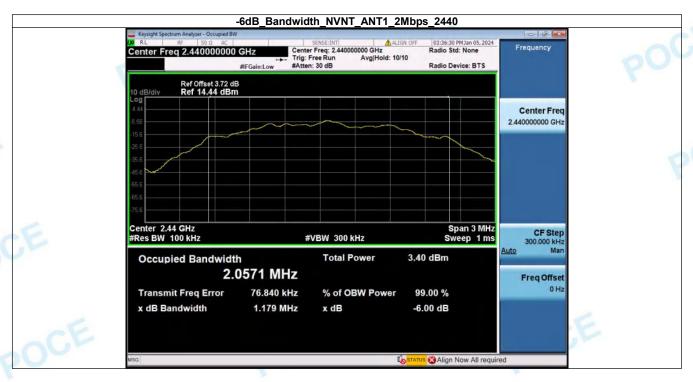






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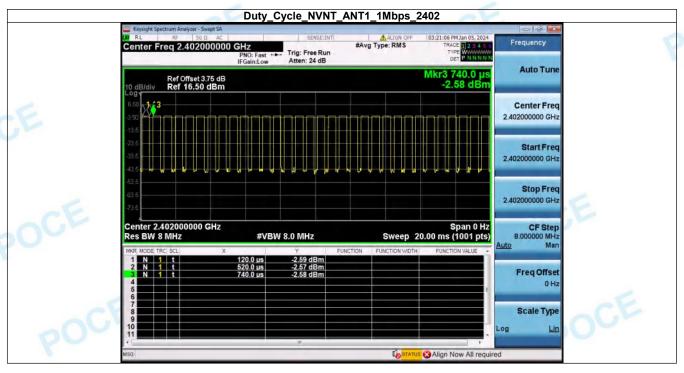


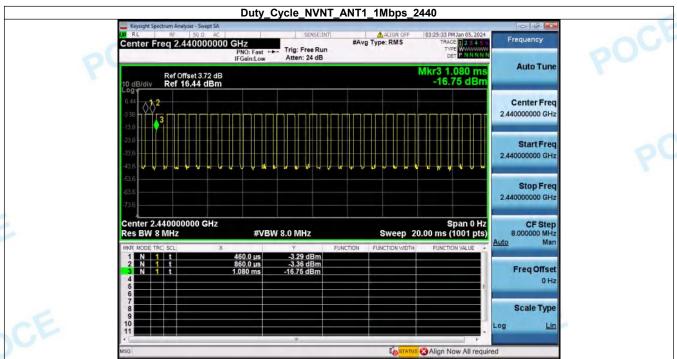




2. Duty Cycle

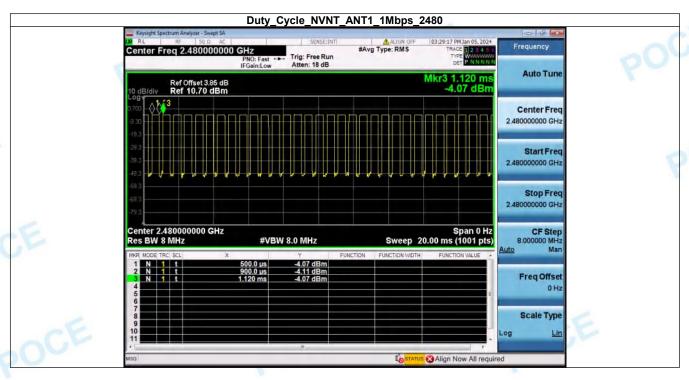
| Condition | Antenna | Rate | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT | ANT1 | 1Mbps | 2402 | 64.52 | 1.90 |
| NVNT | ANT1 | 1Mbps | 2440.00 | 67.74 | 1.69 |
| NVNT | ANT1 | 1Mbps | 2480 | 67.74 | 1.69 |
| NVNT | ANT1 | 2Mbps | 2402 | 32.26 | 4.91 |
| NVNT | ANT1 | 2Mbps | 2440.00 | 38.71 | 4.12 |
| NVNT | ANT1 | 2Mbps | 2480 | 34.38 | 4.64 |

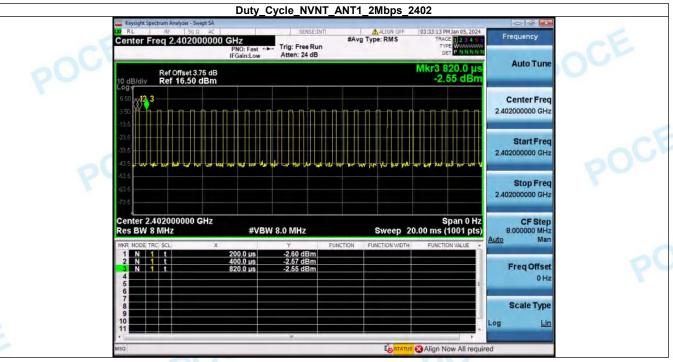


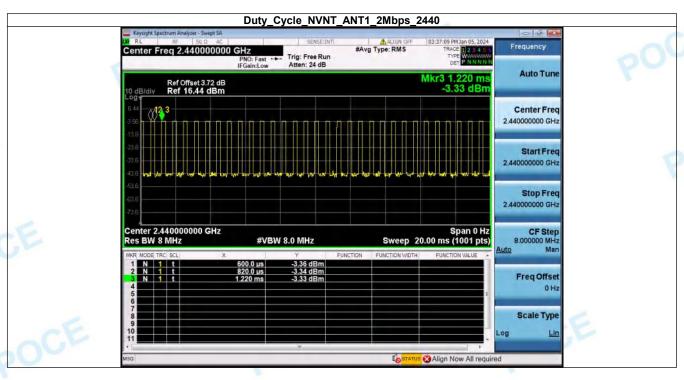


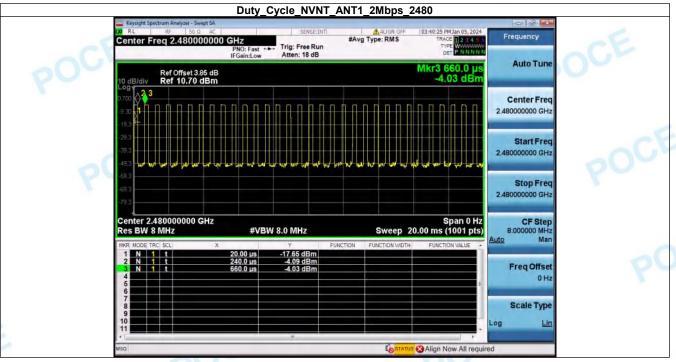
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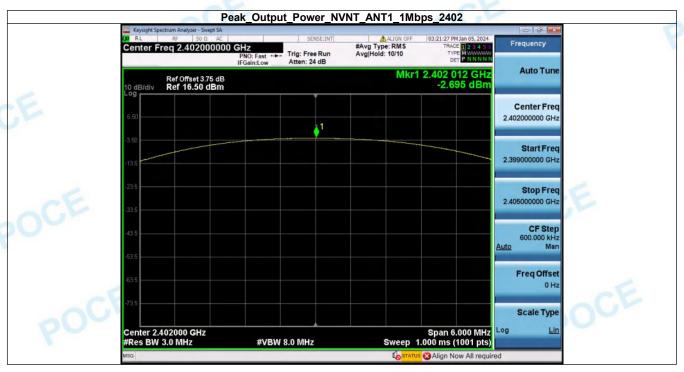


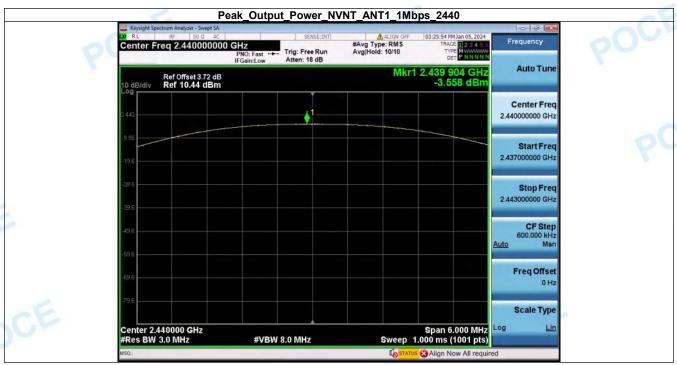




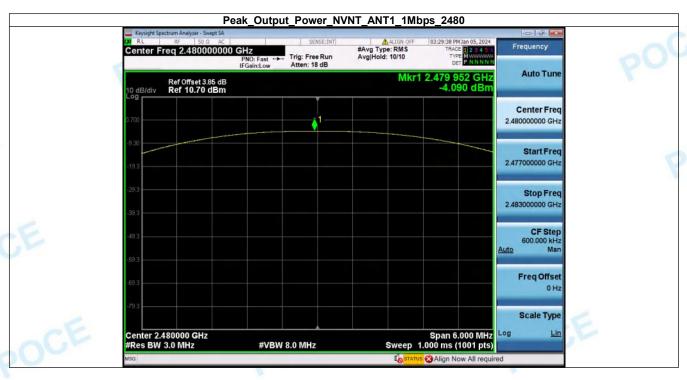
3. Peak Output Power

| Condition | Antenna | Rate | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|-------|--------------------|---------------------------|--------------------------|-----------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | -2.69 | 0.54 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -3.56 | 0.44 | 1000 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | -4.09 | 0.39 | 1000 | Pass |
| NVNT | ANT1 | 2Mbps | 2402 | -2.57 | 0.55 | 1000 | Pass |
| NVNT | ANT1 | 2Mbps | 2440.00 | -3.52 | 0.44 | 1000 | Pass |
| NVNT | ANT1 | 2Mbps | 2480 | -4.08 | 0.39 | 1000 | Pass |



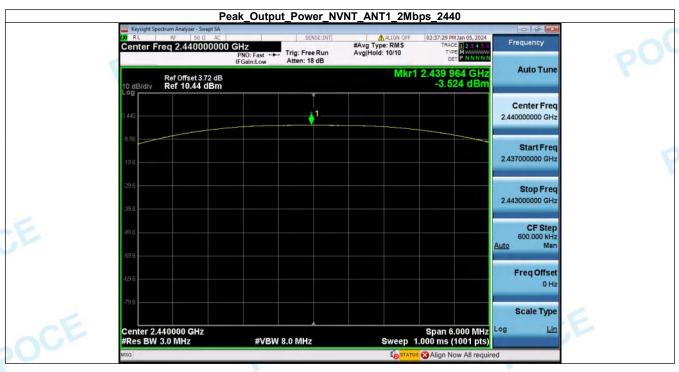


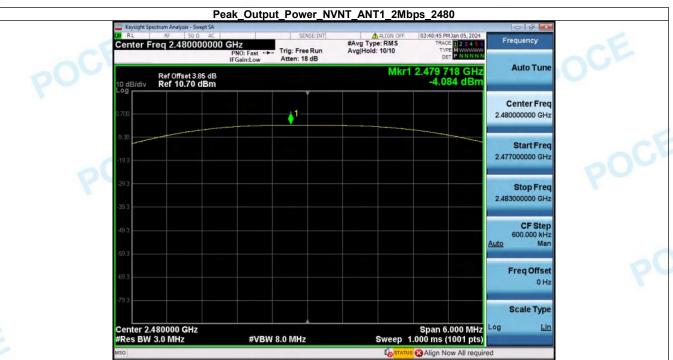
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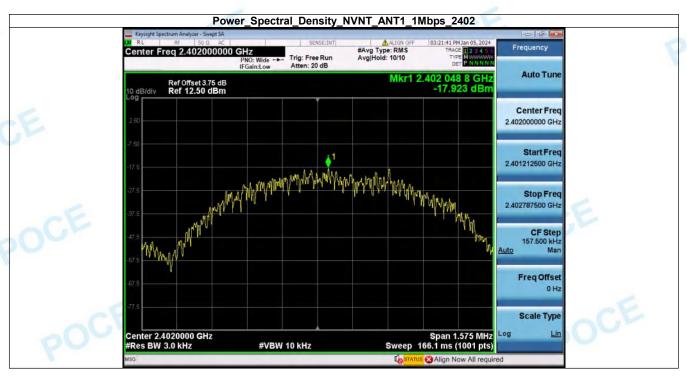


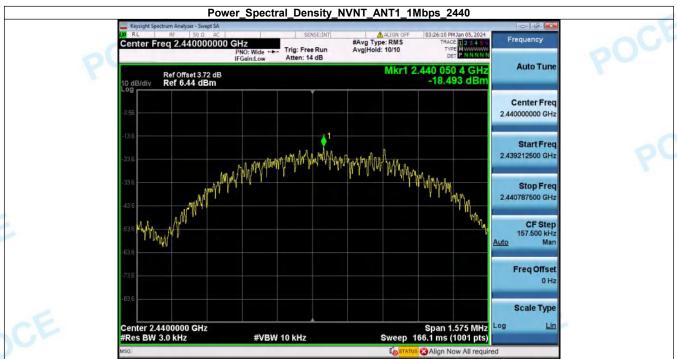




4. Power Spectral Density

| Condition | Antenna | Rate | Frequency (MHz) | Power Spectral Density(dBm) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|-----------------------------|-----------------|--------|
| NVNT | ANT1 | 1Mbps | 2402 | -17.92 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2440.00 | -18.49 | 8 | Pass |
| NVNT | ANT1 | 1Mbps | 2480 | -19.39 | 8 | Pass |
| NVNT | ANT1 | 2Mbps | 2402 | -20.25 | 8 | Pass |
| NVNT | ANT1 | 2Mbps | 2440.00 | -20.86 | 8 | Pass |
| NVNT | ANT1 | 2Mbps | 2480 | -21.63 | 8 | Pass |

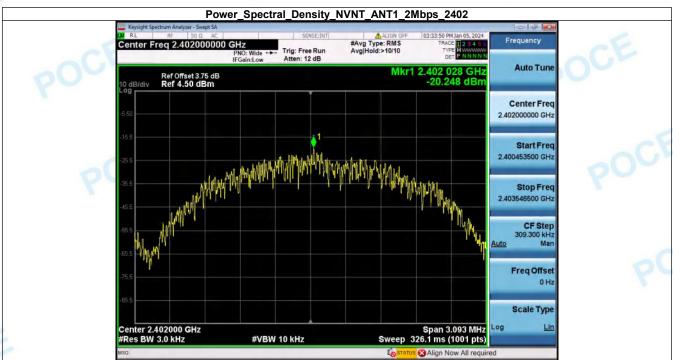


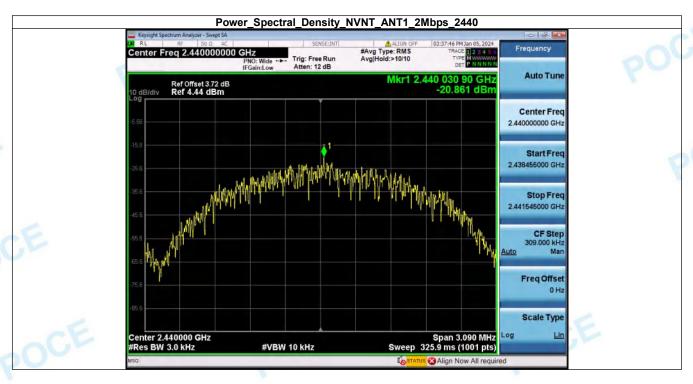


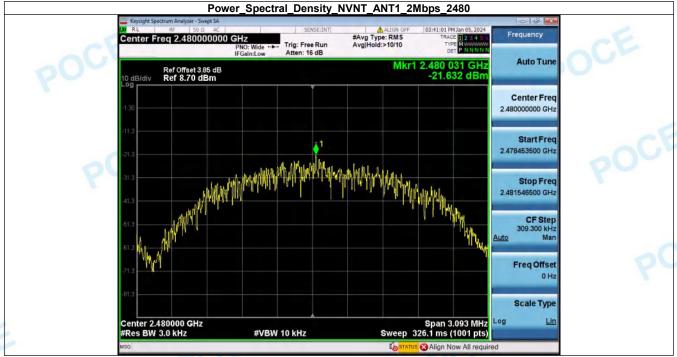
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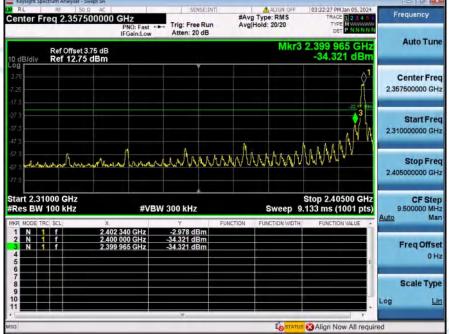






5. Bandedge TX_Frequency Max. Mark Frequency Spurious Condition Antenna Rate limit(dBm) Result (MHz) (MHz) level(dBm) Pass **NVNT** ANT1 1Mbps 2402 2399.965 -34.321 -22.872 NVNT ANT1 1Mbps 2480 2483.950 -43.079 -24.222 Pass 2Mbps NVNT ANT1 2402 2399.585 -34.601 -23.481 Pass





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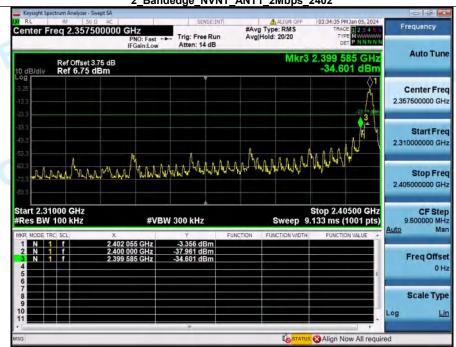














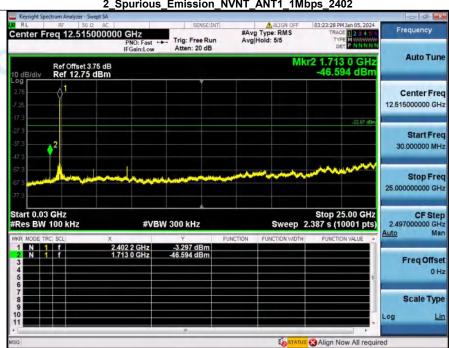




6. Spurious Emission

| | TX Frequency(MHz) | Spurious MAX.Value(dBm) | Limit | Result |
|--|---|---|---|---|
| Rate | | | | Pass |
| | · · | | | Pass |
| | | | | Pass |
| | | .= | | Pass |
| | | ****** | | Pass |
| | | | | Pass |
| | 1Mbps 1Mbps 1Mbps 2Mbps 2Mbps 2Mbps 2Mbps | 1Mbps 2440.00 1Mbps 2480 2Mbps 2402 2Mbps 2440.00 | 1Mbps 2440.00 -55.955 1Mbps 2480 -42.970 2Mbps 2402 -37.056 2Mbps 2440.00 -53.216 | 1Mbps 2440.00 -55.955 -23.807 1Mbps 2480 -42.970 -24.222 2Mbps 2402 -37.056 -23.481 2Mbps 2440.00 -53.216 -24.163 |





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