

TEST REPORT

| Report No.: | BCTC2303023330E | | | | | |
|--------------------------|--|---------|--|--|--|--|
| Applicant: | Jiangsu Saibo Yuhua Technology Co.,Ltd | | | | | |
| Product Name: | Smart watches | | | | | |
| Model/Type reference: | A19 | CHENZHA | | | | |
| Tested Date: | 2023-03-09 to 2023-03-14 | | | | | |
| Issued Date: | 2023-03-14 | | | | | |
| | | | | | | |
| She | nzhen BCTC Testing Co., Ltd. | | | | | |
| | | | | | | |
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FCC ID: 2A2N5-A19

| Product Name: | Smart watches |
|-----------------------|---|
| Trademark: | N/A |
| Model/Type Reference: | A19 DK01 |
| Prepared For: | Jiangsu Saibo Yuhua Technology Co.,Ltd |
| Address: | Building 8(D) of Yancheng High-Tech Zone Intelligent Terminal Industrial Park, China |
| Manufacturer: | Jiangsu Saibo Yuhua Technology Co.,Ltd |
| Address: | Building 8(D) of Yancheng High-Tech Zone Intelligent Terminal Industrial Park, China |
| Prepared By: | Shenzhen BCTC Testing Co., Ltd. |
| Address: | 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China |
| Sample Received Date: | 2023-03-09 |
| Sample tested Date: | 2023-03-09 to 2023-03-14 |
| Issue Date: | 2023-03-14 |
| Report No.: | BCTC2303023330E |
| Test Standards: | FCC Part15.247 ANSI C63.10-2013 |
| Test Results: | PASS |
| Remark: | This is Bluetooth Classic radio test report. |

Tested by:

Chen

Lei Chen/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

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1. Version

| Report No. | Issue Date | Description | Approved |
|-----------------|------------|-------------|----------|
| BCTC2303023330E | 2023-03-14 | Original | Valid |
| | | | |



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2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter | Clause No | Results |
|-----|---|-----------------------------------|---------|
| 1 | Conducted emission AC power port | §15.207 | PASS |
| 2 | Conducted peak output power for FHSS | §15.247(b)(1) | PASS |
| 3 | 20dB Occupied bandwidth | §15.247(a)(1) | PASS |
| 4 | Hopping channel separation | §15.247(a)(1) | PASS |
| 5 | Number of hopping frequencies | §15.247(a)(1)(iii) | PASS |
| 6 | Dwell Time | §15.247(a)(1)(iii) | PASS |
| 7 | Spurious RF conducted emissions | §15.247(d) | PASS |
| 8 | Band edge | §15.247(d) | PASS |
| 9 | Spurious radiated emissions for transmitter | §15.247(d) & §15.209 & §15.205 | PASS |
| 10 | Antenna Requirement | 15.203 | PASS |



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Uncertainty |
|-----|--|------------------|
| 1 | 3m chamber Radiated spurious emission(30MHz-1GHz) | U=4.3dB |
| 2 | 3m chamber Radiated spurious emission(9KHz-30MHz) | U=3.7dB |
| 3 | 3m chamber Radiated spurious emission(1GHz-18GHz) | U=4.5dB |
| 4 | 3m chamber Radiated spurious emission(18GHz-40GHz) | U=3.34dB |
| 5 | Conducted Emission (150kHz-30MHz) | U=3.20dB |
| 6 | Conducted Adjacent channel power | U=1.38dB |
| 7 | Conducted output power uncertainty Above 1G | U=1.576dB |
| 8 | Conducted output power uncertainty below 1G | U=1.28dB |
| 9 | humidity uncertainty | U=5.3% |
| 10 | Temperature uncertainty | U=0.59 °C |





4. Product Information And Test Setup

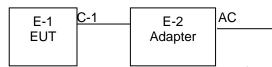
4.1 Product Information

| Model/Type reference: | A19 DK01 |
|-----------------------|---|
| Model differences: | All the model are the same circuit and RF module, except model names. |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Operation Frequency: | Bluetooth: 2402-2480MHz |
| Type of Modulation: | Bluetooth: GFSK, π/ 4 DQPSK, 8DPSK |
| Number Of Channel | 79CH |
| Antenna installation: | Wire antenna |
| Antenna Gain: | -0.91 dBi |
| Ratings: | DC 3.8V from battery, DC 5V from USB |

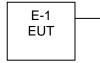
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



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4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Note |
|-----|---------------|--------|-------|------------|-----------|
| E-1 | Smart watches | N/A | A19 | N/A | EUT |
| E-2 | ADAPTER | UGREEN | CD122 | N/A | Auxiliary |

| ltem | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------------------|
| C-1 | N/A | N/A | 0.5M | DC cable unshielded |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

| СН | Frequency (MHz) | СН | Frequency (MHz) | СН | Frequency (MHz) | СН | Frequency (MHz) |
|----|--------------------|----|--------------------|-------------|--------------------|----|--------------------|
| 0 | 2402 | 1 | 2403 | 2 | 2404 | 3 | 2405 |
| 4 | 2406 | 5 | 2407 | 6 | 2408 | 7 | 2409 |
| 8 | 2410 | 9 | 2411 | 10 | 2412 | 11 | 2413 |
| 12 | 2414 | 13 | 2415 | 14 | 2416 | 15 | 2417 |
| 16 | 2418 | 17 | 2419 | 18 | 2420 | 19 | 2421 |
| 20 | 2422 | 21 | 2423 | 22 | 2424 | 23 | 2425 |
| 24 | 2426 | 25 | 2427 | 26 | 2428 | 27 | 2429 |
| 28 | 2430 | 29 | 2431 | . 30 | 2432 | 31 | 2433 |
| 32 | 2434 | 33 | 2435 | 34 | 2436 | 35 | 2437 |
| 36 | 2438 | 37 | 2439 | 38 | 2440 | 39 | 2441 |
| 40 | 2442 | 41 | 2443 | 42 | 2444 | 43 | 2445 |
| 44 | 2446 | 45 | 2447 | 46 | 2448 | 47 | 2449 |
| 48 | 2450 | 49 | 2451 | 50 | 2452 | 51 | 2453 |
| 52 | 2454 | 53 | 2455 | 54 | 2456 | 55 | 2457 |
| 56 | 2458 | 57 | 2459 | 58 | 2460 | 59 | 2461 |
| 60 | 2462 | 61 | 2463 | 62 | 2464 | 63 | 2465 |
| 64 | 2466 | 65 | 2467 | 66 | 2468 | 67 | 2469 |
| 68 | 2470 | 69 | 2471 | 70 | 2472 | 71 | 2473 |
| 72 | 2474 | 73 | 2475 | 74 | 2476 | 75 | 2477 |
| 76 | 2478 | 77 | 2479 | 78 | 2480 | 79 | / |

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4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test Mode | Test mode | Low channel | Middle channel | High channel | | |
|-----------|----------------------------------|-------------|----------------|--------------|--|--|
| 1 | Transmitting(GFSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 2 | Transmitting(π/ 4 DQPSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 3 | Transmitting(8DPSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 4 | Charging(Conducted emission) | | | | | |
| 5 | Transmitting (Radiated emission) | | | | | |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| Test software Version | RTLBTAPP | | | | | |
|-----------------------|----------|----------|----------|--|--|--|
| Frequency | 2402 MHz | 2441 MHz | 2480 MHz | | | |
| Parameters | DEF the | DEF | DEF | | | |

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850 IC Registered No.: 23583

5.2 Test Instrument Used

| Conducted Emissions Test | | | | | | |
|--------------------------|-----------|-----------------|----------------|--------------|--------------|--|
| Equipment | Last Cal. | Next Cal. | | | | |
| Receiver | R&S | ESR3 | 102075 | May 24, 2022 | May 23, 2023 | |
| LISN | R&S | ENV216 | 101375 | May 24, 2022 | May 23, 2023 | |
| Software | Frad | EZ-EMC | EMC-CON 3A1 | ١ | / | |
| Attenuator | \ | 10dB DC-6GHz | 1650 | May 24, 2022 | May 23, 2023 | |

| RF Conducted Test | | | | | | | |
|-------------------------------------|--------------|----------------|--|--------------|--------------|--|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | | |
| Power Metter | Keysight | E4419 | I I | May 24, 2022 | May 23, 2023 | | |
| Power Sensor (AV) | Keysight | E9300A | | May 24, 2022 | May 23, 2023 | | |
| Signal Analyzer20kH z-26.5GHz | Keysight | N9020A | MY49100060 | May 24, 2022 | May 23, 2023 | | |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 24, 2022 | May 23, 2023 | | |
| Radio frequency control box | MAIWEI | MW100-RFC B | | | | | |
| Software | MAIWEI | MTS 8310 | ······································ | Ι | | | |



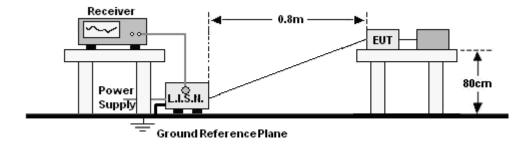
| Radiated Emissions Test (966 Chamber01) | | | | | | | |
|---|--------------|----------------------|------------|---------------|---------------|--|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | | |
| 966 chamber | ChengYu | 966 Room | 966 | Jun. 06. 2020 | Jun. 05, 2023 | | |
| Receiver | R&S | ESR3 | 102075 | May 24, 2022 | May 23, 2023 | | |
| Receiver | R&S | ESRP | 101154 | May 24, 2022 | May 23, 2023 | | |
| Amplifier | Schwarzbeck | BBV9744 | 9744-0037 | May 24, 2022 | May 23, 2023 | | |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 942 | May 26, 2022 | May 25, 2023 | | |
| Loop Antenna(9KHz -30MHz) | Schwarzbeck | FMZB1519B | 00014 | May 26, 2022 | May 25, 2023 | | |
| Amplifier | SKET | LAPA_01G18 G-45dB | ١ | May 24, 2022 | May 23, 2023 | | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1541 | Jun. 06, 2022 | Jun. 05, 2023 | | |
| Amplifier(18G Hz-40GHz) | MITEQ | TTA1840-35- HG | 2034381 | May 26, 2022 | May 25, 2023 | | |
| Horn Antenn(18GH z-40GHz) | Schwarzbeck | BBHA9170 | 00822 | Jun. 06, 2022 | Jun. 05, 2023 | | |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 24, 2022 | May 23, 2023 | | |
| Software | Frad | EZ-EMC | FA-03A2 RE | 1 | Λ_{j} | | |

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

| Frequency (MHz) | Limit | (dBuV) |
|-----------------|-----------|-----------|
| | Quas-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

| Receiver Parameters | | Setting | |
|---------------------|--|----------|--|
| Attenuation | | 10 dB | |
| Start Frequency | | 0.15 MHz | |
| Stop Frequency | | 30 MHz | |
| IF Bandwidth | | 9 kHz | |

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

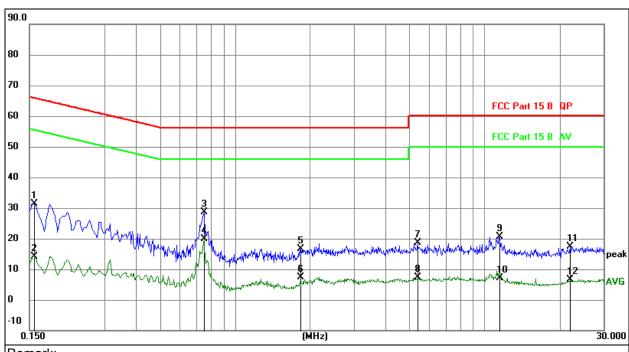
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | L |
| Test Mode: | Mode 4 | Test Voltage : | AC 120V/60Hz |



Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

| 4. Ove | = meas | Surement - Li | TT IIL | | | | | 1 |
|--------|--------|---------------|------------------|-------------------|------------------|-------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.1565 | 11.70 | 19.69 | 31.39 | 65.65 | -34.26 | QP |
| 2 | | 0.1565 | -5.62 | 19.69 | 14.07 | 55.65 | -41.58 | AVG |
| 3 | | 0.7508 | 8.97 | 19.74 | 28.71 | 56.00 | -27.29 | QP |
| 4 | * | 0.7508 | 0.22 | 19.74 | 19.96 | 46.00 | -26.04 | AVG |
| 5 | | 1.8192 | -3.34 | 19.86 | 16.52 | 56.00 | -39.48 | QP |
| 6 | | 1.8192 | -12.50 | 19.86 | 7.36 | 46.00 | -38.64 | AVG |
| 7 | | 5.3900 | -1.51 | 20.14 | 18.63 | 60.00 | -41.37 | QP |
| 8 | | 5.3900 | -12.88 | 20.14 | 7.26 | 50.00 | -42.74 | AVG |
| 9 | | 11.4376 | 0.44 | 20.28 | 20.72 | 60.00 | -39.28 | QP |
| 10 | | 11.4376 | -13.25 | 20.28 | 7.03 | 50.00 | -42.97 | AVG |
| 11 | | 22.0628 | -3.15 | 20.51 | 17.36 | 60.00 | -42.64 | QP |
| 12 | | 22.0628 | -13.92 | 20.51 | 6.59 | 50.00 | -43.41 | AVG |
| | | | | | | | | |

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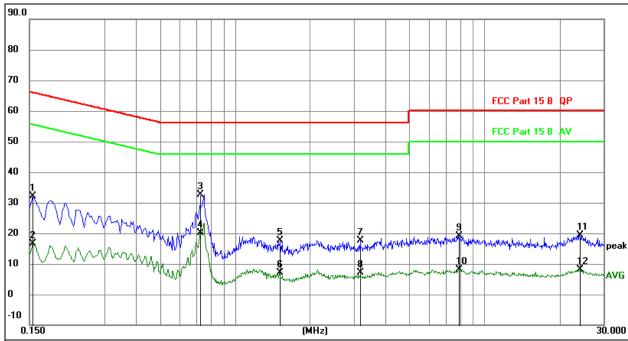
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| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Phase : | Ν |
| Test Mode: | Mode 4 | Test Voltage : | AC 120V/60Hz |



Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor

| 4. Ove | a = wea | Surement - Li | TTHL | | | | | |
|--------|---------|---------------|------------------|-------------------|------------------|--------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.1545 | 12.41 | 19.68 | 32.09 | 65.75 | -33.66 | QP |
| 2 | | 0.1545 | -2.96 | 19.68 | 16.72 | 55.75 | -39.03 | AVG |
| 3 | * | 0.7260 | 12.81 | 19.74 | 32.55 | 56.00 | -23.45 | QP |
| 4 | | 0.7260 | 0.51 | 19.74 | 20.25 | 46.00 | -25.75 | AVG |
| 5 | | 1.5090 | -2.30 | 19.82 | 17.52 | 56.00 | -38.48 | QP |
| 6 | | 1.5090 | -12.69 | 19.82 | 7.13 | 46.00 | -38.87 | AVG |
| 7 | | 3.1875 | -2.50 | 20.01 | 17.51 | 56.00 | -38.49 | QP |
| 8 | | 3.1875 | -12.93 | 20.01 | 7.08 | 46.00 | -38.92 | AVG |
| 9 | | 7.8765 | -1.16 | 20.21 | 19.05 | 60.00 | -40.95 | QP |
| 10 | | 7.8765 | -12.09 | 20.21 | 8.12 | 50.00 | -41.88 | AVG |
| 11 | | 24.1215 | -1.15 | 20.52 | 19.37 | 60.00 | -40.63 | QP |
| 12 | | 24.1215 | -12.46 | 20.52 | 8.06 | 50.00 | -41.94 | AVG |
| | | | | · | | 777751 | | |

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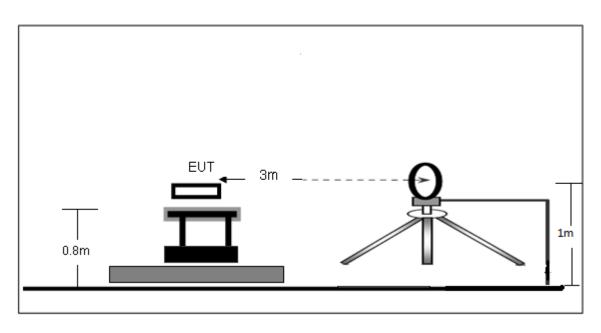
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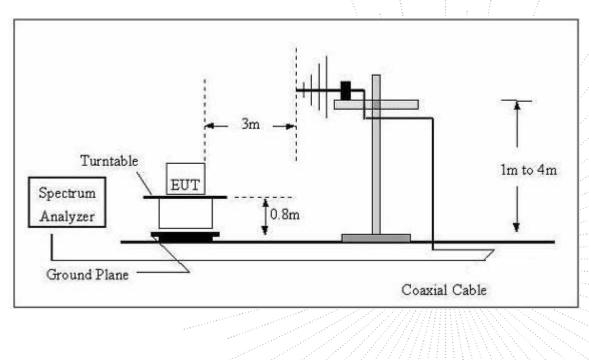
7. Radiated emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



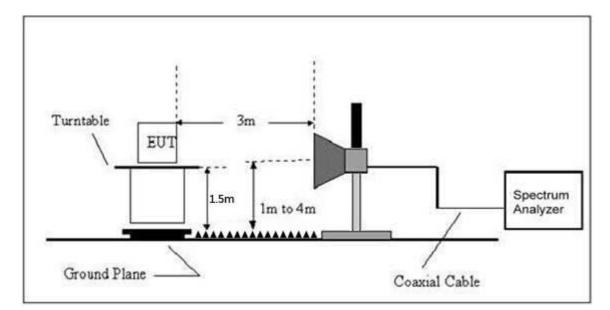
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Field Strength | Distance | Field Strength Li | mit at 3m Distance |
|----------------|--|---|---|
| uV/m | (m) | uV/m | dBuV/m |
| 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 |
| 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 |
| 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 |
| 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ |
| 150 | 3 | 150 | 20log ⁽¹⁵⁰⁾ |
| 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ |
| 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ |
| | uV/m 2400/F(kHz) 24000/F(kHz) 30 100 150 200 | uV/m (m) 2400/F(kHz) 300 24000/F(kHz) 30 30 30 100 3 150 3 200 3 | uV/m (m) uV/m 2400/F(kHz) 300 10000 * 2400/F(kHz) 24000/F(kHz) 30 100 * 24000/F(kHz) 30 30 100 * 30 100 3 100 150 3 150 200 3 200 |

Limits Of Radiated Emission Measurement (Above 1000MHz)

| | Limit (dBuV/m) (at | 3M) |
|-----------------|--------------------|---------|
| Frequency (MHz) | Peak | Average |
| Above 1000 | 74 | 54 |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

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

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

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Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

| Receiver Parameter | Setting |
|--------------------|-------------------|
| Attenuation | Auto |
| 9kHz~150kHz | RBW 200Hz for QP |
| 150kHz~30MHz | RBW 9kHz for QP |
| 30MHz~1000MHz | RBW 120kHz for QP |

| Spectrum Parameter | Setting |
|--------------------|--|
| 1-25GHz | RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average |

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
|--------------|-------------|--------------------|---------|--|
| Pressure: | 101KPa | Test Voltage : | | |
| Test Mode: | Mode 5 | Test voltage . | DC 3.8V | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | PASS |
| | | | | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

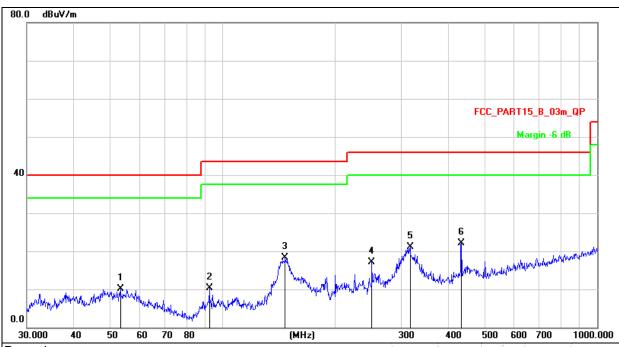
No.: BCTC/RF-EMC-007

Page: 20 of 80



Between 30MHz - 1GHz

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|------------|
| Pressure: | 101KPa | Phase : | Horizontal |
| Test Mode: | Mode 5 | Test Voltage: | DC 3.8V |



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement = Reading Level + Correct Factor 3. Over = Measurement - Limit

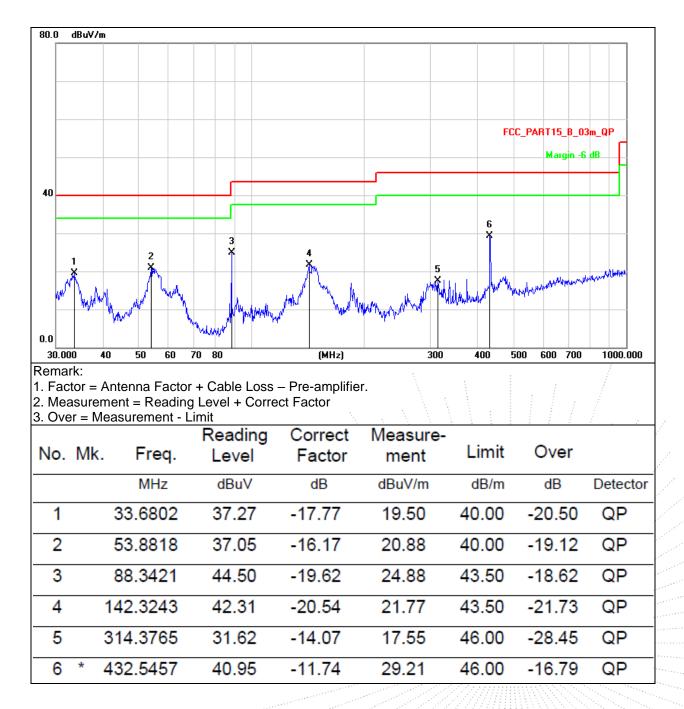
| J. UVE | = mea | asurement - L | 11111 | | | | | |
|--------|-------|---------------|------------------|-------------------|------------------|-------|--------|----------|
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector |
| 1 | | 53.3179 | 26.24 | -16.09 | 10.15 | 40.00 | -29.85 | QP |
| 2 | | 92.1388 | 29.26 | -18.92 | 10.34 | 43.50 | -33.16 | QP |
| 3 | 1 | 46.8877 | 39.15 | -20.85 | 18.30 | 43.50 | -25.20 | QP |
| 4 | 2 | 250.3012 | 32.98 | -15.82 | 17.16 | 46.00 | -28.84 | QP |
| 5 | 3 | 316.5890 | 35.10 | -13.99 | 21.11 | 46.00 | -24.89 | QP |
| 6 | * 4 | 34.0651 | 33.74 | -11.72 | 22.02 | 46.00 | -23.98 | QP |

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| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|----------|
| Pressure: | 101KPa | Phase : | Vertical |
| Test Mode: | Mode 5 | Test Voltage: | DC 3.8V |



检



Between 1GHz – 25GHz

| Polar | Frequency | Reading Level | Correct Factor | Measure- ment | Limits | Over | Detector | | |
|-------|------------------|------------------|-------------------|------------------|--------------|--------|----------|--|--|
| (H/V) | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | Туре | | |
| | GFSK Low channel | | | | | | | | |
| V | 4804.00 | 52.72 | -0.43 | 52.29 | 74.00 | -21.71 | PK | | |
| V | 4804.00 | 43.19 | -0.43 | 42.76 | 54.00 | -11.24 | AV | | |
| V | 7206.00 | 43.76 | 8.31 | 52.07 | 74.00 | -21.93 | PK | | |
| V | 7206.00 | 32.80 | 8.31 | 41.11 | 54.00 | -12.89 | AV | | |
| Н | 4804.00 | 51.66 | -0.43 | 51.23 | 74.00 | -22.77 | PK | | |
| Н | 4804.00 | 41.33 | -0.43 | 40.90 | 54.00 | -13.10 | AV | | |
| Н | 7206.00 | 42.42 | 8.31 | 50.73 | 74.00 | -23.27 | PK | | |
| Н | 7206.00 | 34.74 | 8.31 | 43.05 | 54.00 | -10.95 | AV | | |
| | | G | FSK Middle c | hannel | | | | | |
| V | 4882.00 | 51.50 | -0.38 | 51.12 | 74.00 | -22.88 | PK | | |
| V | 4882.00 | 45.01 | -0.38 | 44.63 | 54.00 | -9.37 | AV | | |
| V | 7323.00 | 44.12 | 8.83 | 52.95 | 74.00 | -21.05 | PK | | |
| V | 7323.00 | 36.05 | 8.83 | 44.88 | 54.00 | -9.12 | AV | | |
| Н | 4882.00 | 49.38 | -0.38 | 49.00 | 74.00 | -25.00 | PK | | |
| Н | 4882.00 | 39.63 | -0.38 | 39.25 | 54.00 | -14.75 | AV | | |
| Н | 7323.00 | 41.32 | 8.83 | 50.15 | 74.00 | -23.85 | PK | | |
| Н | 7323.00 | 32.35 | 8.83 | 41.18 | 54.00 | -12.82 | AV | | |
| | | | GFSK High ch | annel | | | | | |
| V | 4960.00 | 53.17 | -0.32 | 52.85 | 74.00 | -21.15 | / PK | | |
| V | 4960.00 | 43.72 | -0.32 | 43.40 | 54.00 | -10.60 | AV | | |
| V | 7440.00 | 46.32 | 9.35 | 55.67 | 74.00 | -18.33 | PK | | |
| V | 7440.00 | 35.53 | 9.35 | 44.88 | 54.00 | -9.12 | AV | | |
| Н | 4960.00 | 52.12 | -0.32 | 51.80 | 74.00 | -22.20 | PK | | |
| Н | 4960.00 | 41.15 | -0.32 | 40.83 | 54.00 | -13.17 | AV | | |
| Н | 7440.00 | 44.74 | 9.35 | 54.09 | 74.00 | -19.91 | PK | | |
| Н | 7440.00 | 37.08 | 9.35 | 46.43 | 54.00 | -7.57 | AV | | |

Remark:

1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

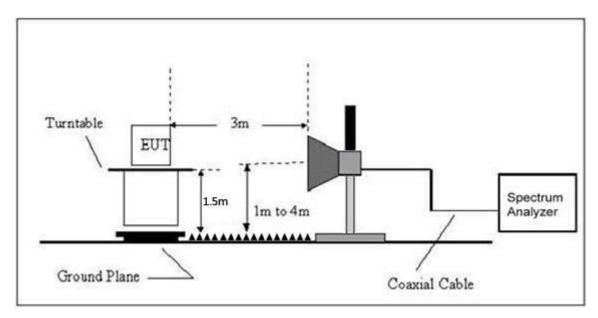
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |



Limits Of Radiated Emission Measurement (Above 1000MHz)

| | Limit (dBuV/m) (at 3M) | | | | | |
|-----------------|------------------------|---------|--|--|--|--|
| Frequency (MHz) | Peak | Average | | | | |
| Above 1000 | 74 | 54 | | | | |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

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

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

| Receiver Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 2300MHz |
| Stop Frequency | 2520 |
| RB / VB (Emission In Restricted Band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

| Test mode | Polar (H/V) | Frequency (MHz) | Reading Level | Correct Factor | Measure- ment (dBuV/m) | Limits (dBuV/m) | | Result | | | |
|------------|----------------|----------------------|------------------|-------------------|------------------------------|--------------------|-------|--------|--|--|--|
| | (10 •) | (11112) | (dBuV/m) | (dB) | РК | РК | AV | | | | |
| | | | Low | / Channel 2 | 402MHz | • | | | | | |
| | Н | 2390.00 | 53.36 | -6.70 | 46.66 | 74.00 | 54.00 | PASS | | | |
| | Н | 2400.00 | 56.94 | -6.71 | 50.23 | 74.00 | 54.00 | PASS | | | |
| | V | 2390.00 | 53.20 | -6.70 | 46.50 | 74.00 | 54.00 | PASS | | | |
| OFOK | V | 2400.00 | 54.64 | -6.71 | 47.93 | 74.00 | 54.00 | PASS | | | |
| Gran | | High Channel 2480MHz | | | | | | | | | |
| GFSK | Н | 2483.50 | 52.60 | -6.79 | 45.81 | 74.00 | 54.00 | PASS | | | |
| | Н | 2500.00 | 49.09 | -6.81 | 42.28 | 74.00 | 54.00 | PASS | | | |
| | V | 2483.50 | 52.77 | -6.79 | 45.98 | 74.00 | 54.00 | PASS | | | |
| | V | 2500.00 | 47.85 | -6.81 | 41.04 | 74.00 | 54.00 | PASS | | | |
| | | | Low | / Channel 24 | 402MHz | | | | | | |
| | Н | 2390.00 | 52.79 | -6.70 | 46.09 | 74.00 | 54.00 | PASS | | | |
| | Н | 2400.00 | 56.34 | -6.71 | 49.63 | 74.00 | 54.00 | PASS | | | |
| | V | 2390.00 | 52.08 | -6.70 | 45.38 | 74.00 | 54.00 | PASS | | | |
| π/4DQPSK | V | 2400.00 | 52.54 | -6.71 | 45.83 | 74.00 | 54.00 | PASS | | | |
| II/4DQF SK | | | | n Channel 2 | 480MHz | | | | | | |
| | Н | 2483.50 | 52.95 | -6.79 | 46.16 | 74.00 | 54.00 | PASS | | | |
| | Н | 2500.00 | 49.73 | -6.81 | 42.92 | 74.00 | 54.00 | PASS | | | |
| | V | 2483.50 | 51.56 | -6.79 | 44.77 | 74.00 | 54.00 | PASS | | | |
| | V | 2500.00 | 48.50 | -6.81 | 41.69 | 74.00 | 54.00 | PASS | | | |
| | | | Low | / Channel 24 | 402MHz | | | | | | |
| | Н | 2390.00 | 53.04 | -6.70 | 46.34 | 74.00 | 54.00 | PASS | | | |
| | Н | 2400.00 | 56.64 | -6.71 | 49.93 | 74.00 | 54.00 | PASS | | | |
| | V | 2390.00 | 53.46 | 6.70 | 46.76 | 74.00 | 54.00 | PASS | | | |
| 8DPSK | V | 2400.00 | 53.79 | -6.71 | 47.08 | 74.00 | 54.00 | PASS | | | |
| OUFSK | | | High | n Channel 2 | 480MHz | | | | | | |
| | Н | 2483.50 | 51.46 | -6.79 | 44.67 | 74.00 | 54.00 | PASS | | | |
| | Н | 2500.00 | 48.65 | -6.81 | 41.84 | 74.00 | 54.00 | PASS | | | |
| | V | 2483.50 | 52.82 | -6.79 | 46.03 | 74.00 | 54.00 | PASS | | | |
| | V | 2500.00 | 47.95 | -6.81 | 41.14 | 74.00 | 54.00 | PASS | | | |

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss - Pre-amplifier. Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

E



9. Spurious RF Conducted Emissions

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 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. 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 §15.205(c))

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

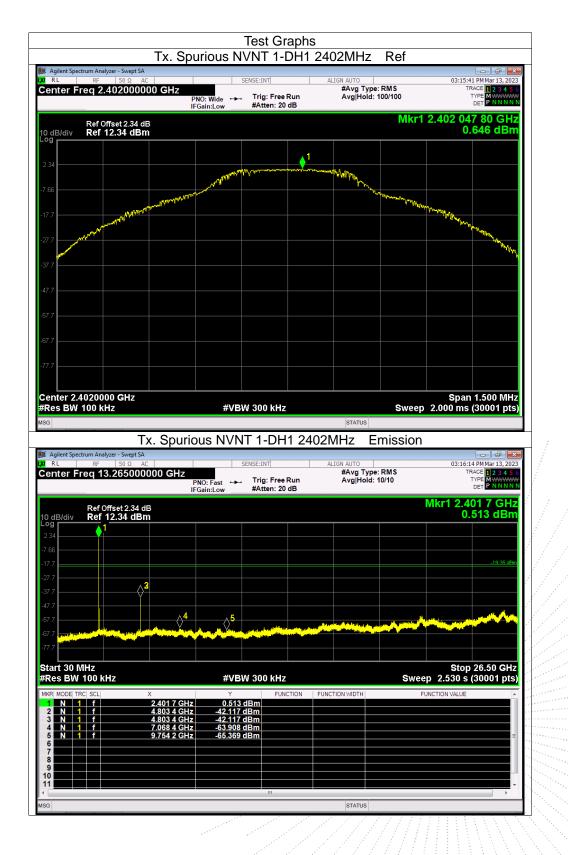
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Edition: A.5

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9.4 Test Result

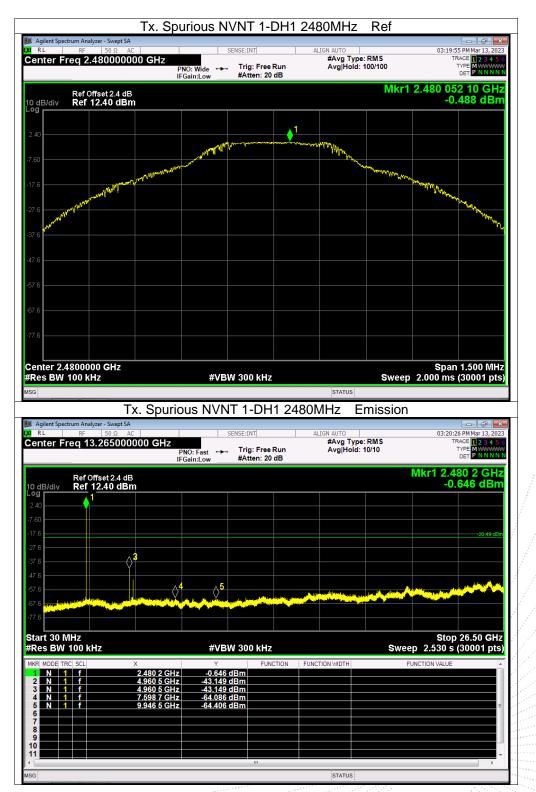




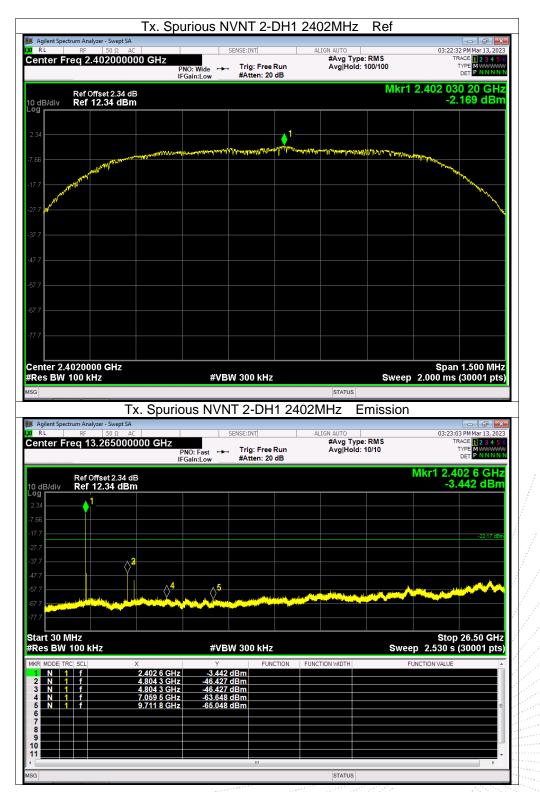


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| dB/div | Ref | 12.36 dB | sm | | | | | | | | 0.302 0 | |
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| Agilent Spec RL enter F 36 64 7.6 7.6 | ctrum Ana RF req 1 | | A AC 0000 GH dB | -Iz P | US NVN NO: Fast ↔ | IT 1-C SENSE:INT . Trig: F | 0H1 244 ree Run | 41MHz ALIGN AUTO #Avg T | Emissi | on | 03:18:06 PM Mar 1 TRACE 1 2 TYPE Mw DET P N 2.441140 0.4400 | B 3, 202 3 4 5 NNN GH2 |
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| Agilent Spec RL enter F 9 36 64 7.6 7.6 7.6 7.6 | ctrum Ana RF req 1 | | A AC 00000 GH dB Sm | -Iz P | US NVN NO: Fast ↔ | IT 1-C SENSE:INT . Trig: F | 0H1 244 ree Run | 41MHz ALIGN AUTO #Avg T | Emissi | on | 03:18:06 PM Mar 1 TRACE 1 2 TYPE Mw DET P N 2.44114 (0.440 d | B 3, 202 3 4 5 NNN GH2 |
| Agilent Spec RL enter F 0 dB/div 0 g 36 64 7.6 7.6 7.6 7.6 | ctrum Ana RF req 1 | | A AC 00000 GH dB Sm | -Iz P | US NVN NO: Fast Gain:Low | IT 1-C SENSE:INT . Trig: F | 0H1 244 ree Run | ALIGN AUTO #Avg T AvgiHe | Emissi | on | 03:18:06 PM Mar 1 TRACE 1 2 TYPE Mw DET P N 2.44114 (0.440 d | 3, 202 3 4 5 N N N GHz Bm |
| Agilent Spee RL enter F 9 36 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref 1 | | A AC 00000 GH dB Sm | -Iz P | us NVN NO: Fast Gain:Low 5 | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg T AvgiHe | S Emissi ype: RMS ld: 10/10 | on Mkr 200 | 03:18:06 PM Mar 1 TRACE] 2 TYPE MW DET P N 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spec RL enter F 9 36 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref C Ref C Ref M Ref M R | | A AC 00000 GH 3m | -Iz P | us NVN NO: Fast Gain:Low 5 | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg | S Emissi ype: RMS ld: 10/10 | on Mkr | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spec RL enter F 336 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref 0 Ref 0 | | | | US NVN NO: Fast Gain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | JT 1-D SENSE:INT Trig: F #Atten W 300 k | PH1 244 | ALIGN AUTO #Avg T AvgiHe | S Emissi ype: RMS ld: 10/10 | on Mkr 200 | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spec RL enter F 0 dB/div 9 9 36 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref Ref | | A AC O O O O O O O O O O O O O O O O O O | | US NVN NO: Fast → Gain:Low → \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg | S Emissi ype: RMS ld: 10/10 | on Mkr | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spec RL enter F 36 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref Ref | | A AC O0000 GH dB 3m 2 2 4 4 8 2 4 4 8 82 0 4 8 82 0 4 8 82 0 | | US NVN NO: Fast Gain:Low | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg | S Emissi ype: RMS ld: 10/10 | on Mkr | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spee RL P enter F od B/div 9 336 64 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref Ref | | A AC O O O O O O O O O O O O O O O O O O | | US NVN NO: Fast → Gain:Low → \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg | S Emissi ype: RMS ld: 10/10 | on Mkr | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |
| Agilent Spec RL enter F enter F 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | Ref Ref | | A AC O O O O O O O O O O O O O O O O O O | | US NVN NO: Fast → Gain:Low → \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | JT 1-D SENSE:INT Trig: F #Atten | PH1 244 | ALIGN AUTO #Avg | S Emissi ype: RMS ld: 10/10 | on Mkr | 03:18:06 PM Mar 1 TRACE 12 TYPE MW 0ET PN 1 2.441 4 (0.440 d | 3,202 345 300 345 345 345 345 345 345 345 345 345 345 |



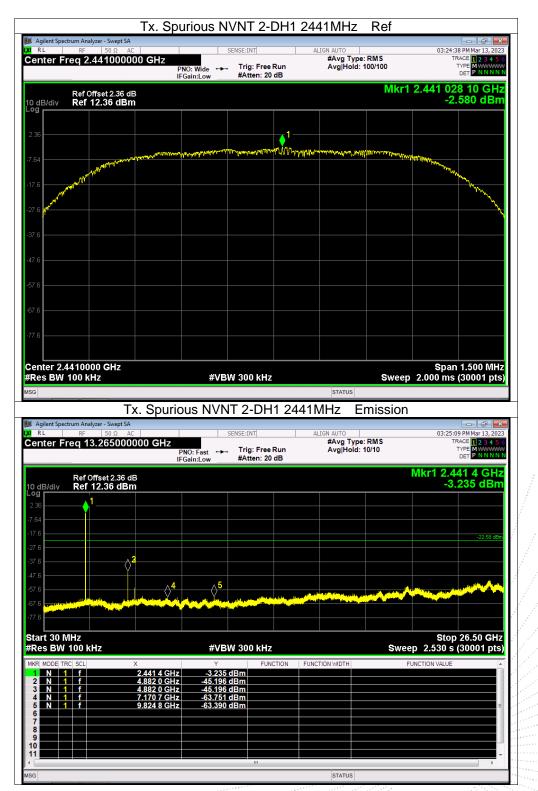




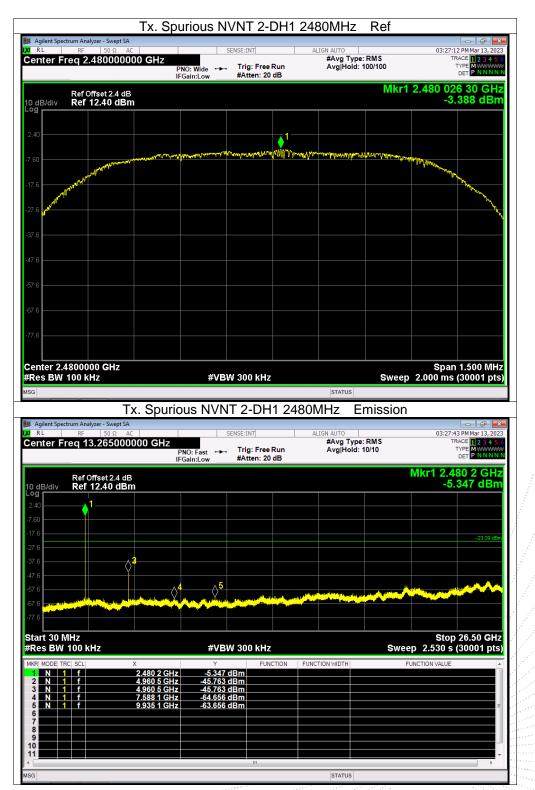








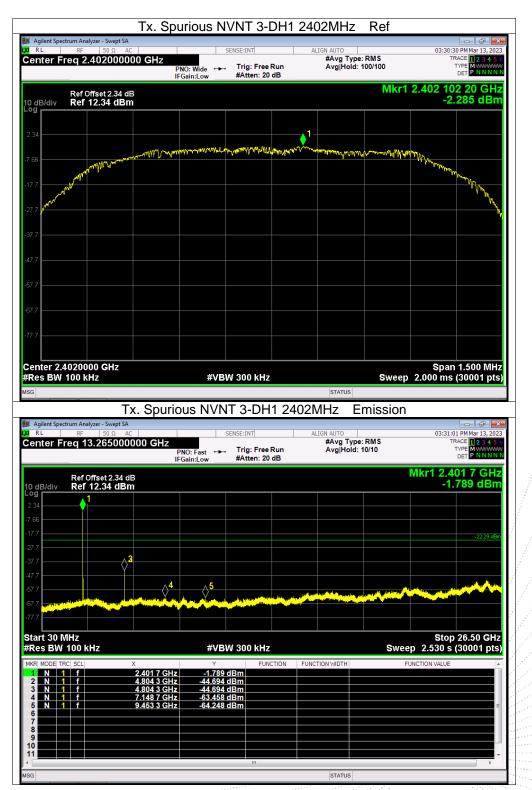






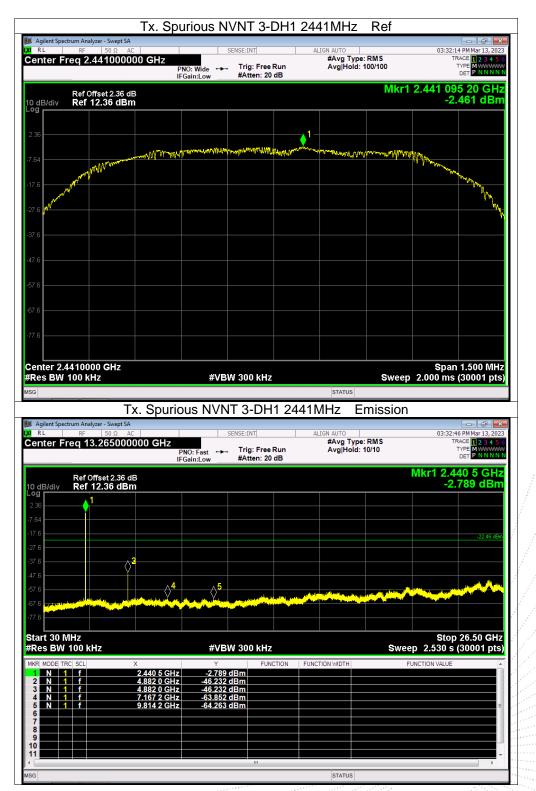




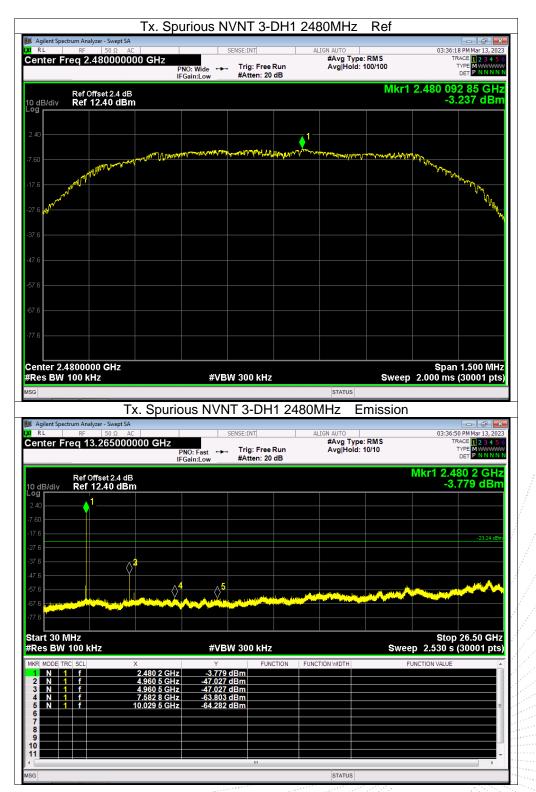






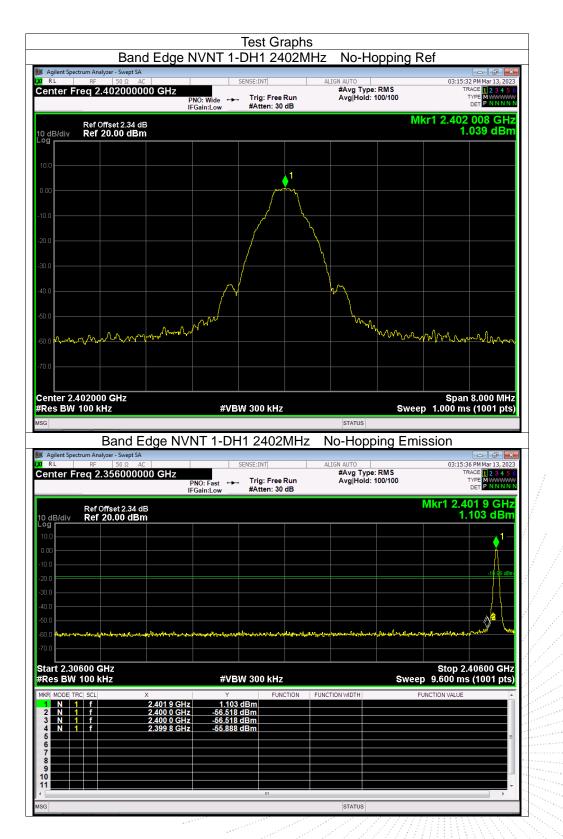






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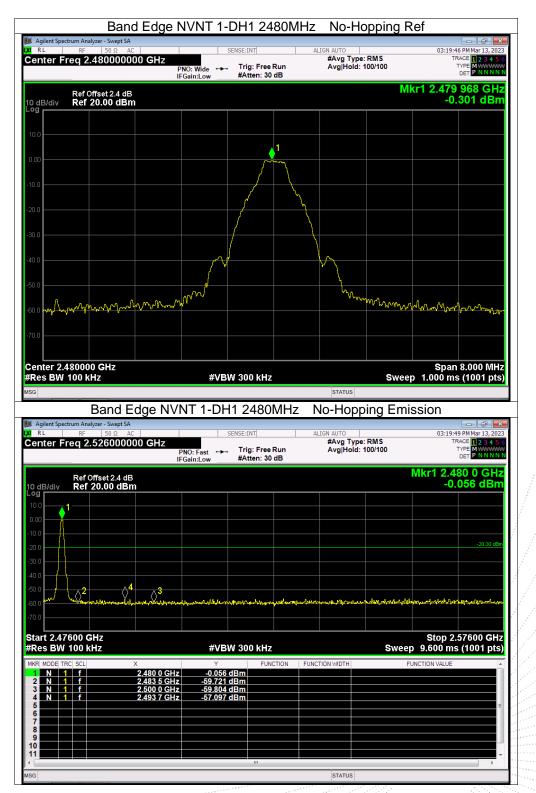


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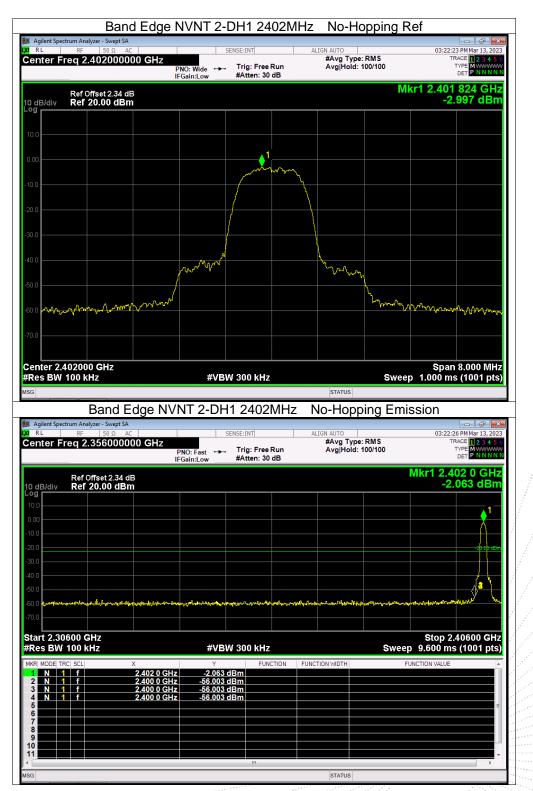
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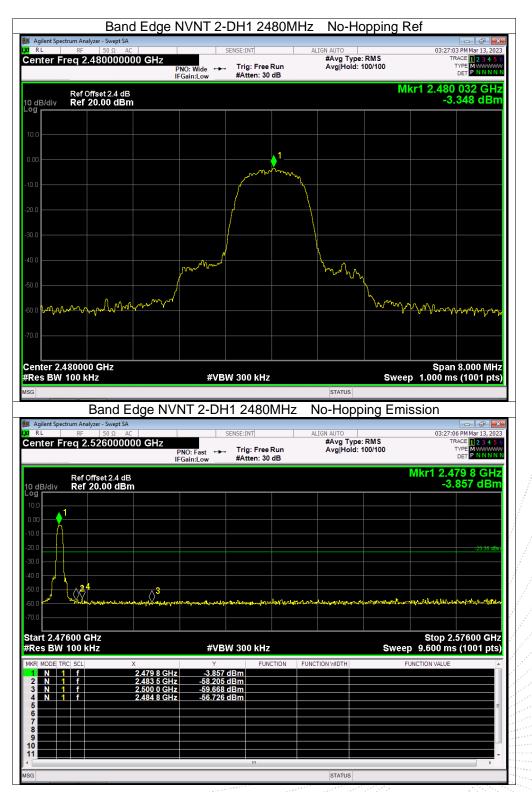






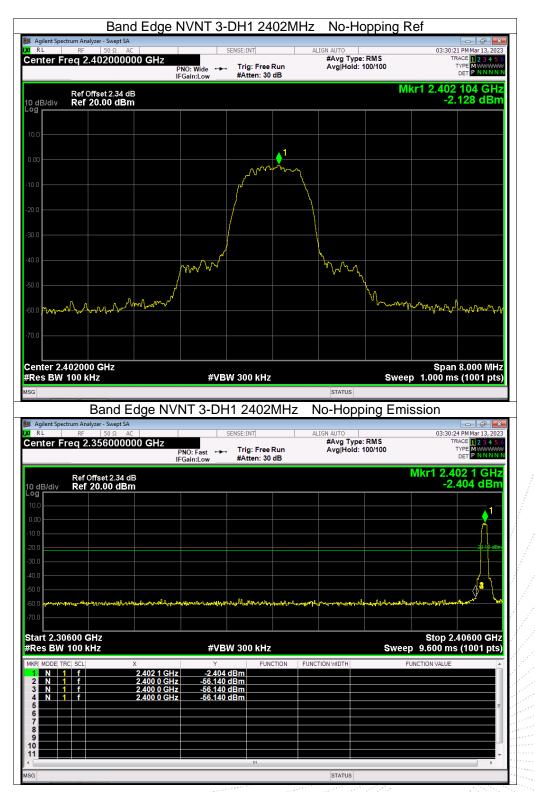




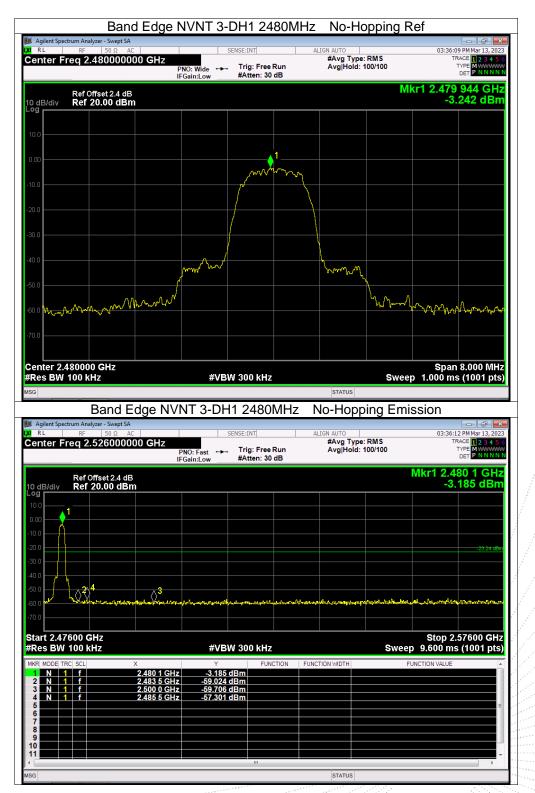




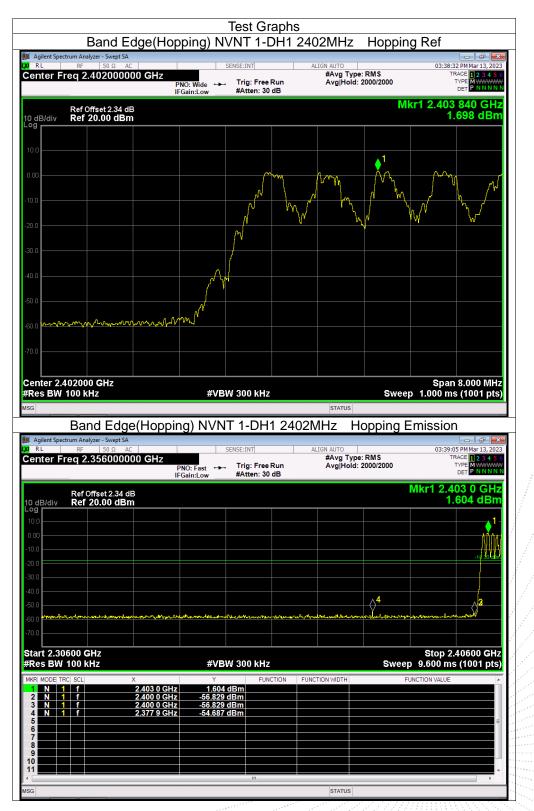
















| Band Ed | ge(Hopping) | NVNT 1-DH1 | 2480MHz | Hopping Ref | |
|--|----------------------------------|---|-------------------------|--|---|
| Magilent Spectrum Analyzer - Swept SA | | SENSE:INT | ALIGN AUTO | 03:41:42 PM Ma | r 13, 2023 |
| Center Freq 2.48000000 | 0 GHz PNO: Wide IFGain:Low | ↔→ Trig: Free Run #Atten: 30 dB | #Avg Type Avg Hold:: | : RMS TRACE 1 2000/2000 TYPE M DET P | 2 3 4 5 6 WWWWW N N N N N |
| Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm | | | | Mkr1 2.476 184 0.070 | |
| Log | | | | | |
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| 0.00 | pm pm | Ma Ma | | | |
| -10.0 | | h | | | |
| -20.0 | <u> </u> | V* | M . | | |
| -30.0 | | | | | |
| -40.0 | | | | | |
| -50.0 | | | ľ 'n | | |
| -60.0 | | | VI∕∕ | anhanna ana ma | www. |
| | | | | | |
| -70.0 | | | | | |
| Center 2.480000 GHz #Res BW 100 kHz | | VBW 300 kHz | | Span 8.00 Sweep 1.000 ms (100 | |
| MSG | " | | STATUS | | - ptoy |
| Band Edge | (Hopping) N | /NT 1-DH1 24 | 180MHz H | opping Emission | |
| | <u> 11 3/</u> | | | <u> </u> | - N |
| Agilent Spectrum Analyzer - Swept SA ΙΧΙ RF 50 Ω AC | | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma : RMS TRACE | r 13, 2023 2 3 4 5 6 |
| 📕 Agilent Spectrum Analyzer - Swept SA | | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma RMS TRACE 1 2000/2000 TYPE M DET P | r 13, 2023 2 3 4 5 6 WWWWW N N N N N |
| Agilent Spectrum Analyzer - Swept SA RL PF 50 Ω Acc Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma : RMS TRACE 2000/2000 TYPE | r 13, 2023 2 3 4 5 6 N N N N N GHz |
| Agilent Spectrum Analyzer - Swept SA A RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma RMS TRACE 2000/2000 TYPE DET Mkr1 2.476 2 | r 13, 2023 2 3 4 5 6 N N N N N GHz |
| Agilent Spectrum Analyzer - Swept SA M RL RF 50 Ω Acc Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma RMS TRACE 2000/2000 TYPE DET Mkr1 2.476 2 | r 13, 2023 2 3 4 5 6 N N N N N GHz |
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 10.0 1 1 -10.0 1 1 1 1 1 1 1 -20.0 1 | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma 03:42:15 PM Ma 2000/2000 TRACE 0 TYPE M Det M Mkr1 2.476 2 0.731 | r 13, 2023 2 3 4 5 6 N N N N N GHz |
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 10.0 1 10.0 1 0.00 1 1 | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma 03:42:15 PM Ma 2000/2000 TRACE 0 TYPE M Det M Mkr1 2.476 2 0.731 | GHz dBm |
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm 10 dB/div Ref 20.00 dBm | 0 GHz PNO: Fast | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma 03:42:15 PM Ma 2000/2000 TRACE 0 TYPE M Det M Mkr1 2.476 2 0.731 | GHz dBm |
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm 10 dB/div Ref 20.00 dBm | 0 GHz PNO: Fast IFGain:Low | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma 03:42:15 PM Ma 2000/2000 TRACE 0 TYPE M Det M Mkr1 2.476 2 0.731 | GHz dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 1 <td< td=""><td>D GHz PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 30 dB</td><td>ALIGN AUTO</td><td>03:42:15 PM Ma 2000/2000 TRACE 2000/2000 Mkr1 2.476 2 0.731</td><td>r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm</td></td<> | D GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE 2000/2000 Mkr1 2.476 2 0.731 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF S0 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 000 < | D GHz PNO: Fast IFGain:Low | SENSE:INT | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE DET 00:42:15 PM Ma 1990 PM 1990 PM 199 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 000 < | 0 GHz PNO: Fast IFGain:Low | SENSE:INT → Trig: Free Run #Atten: 30 dB | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF 50 Ω AC Center Freq 2.526000000 Ref Offset2.4 dB Ref Offset2.4 dB Ref Offset2.4 dB 10 dB/div Ref 20.00 dBm Acc Acc Acc -0.00 <td>0 GHz PNO: Fast IFGain:Low</td> <td>SENSE:INT Trig: Free Run #Atten: 30 dB</td> <td>ALIGN AUTO</td> <td>03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100</td> <td>r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm</td> | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 30 dB | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF S0 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref Offset 2.4 dB Ref Offset 2.4 dB Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm Ref 20 | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 30 dB #Atten: 30 dB #Atten: 30 dB #Atten: 30 dB Particular Particolor Particolor <td>ALIGN AUTO</td> <td>03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100</td> <td>r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm</td> | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |
| Agilent Spectrum Analyzer - Swept SA M RL RF S0 Ω AC Center Freq 2.526000000 Ref Offset 2.4 dB Ref 20.00 dBm Ref 20.00 dBm 10 dB/div Ref 20.00 dBm 100 < | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 30 dB #Atten: 30 dB #Atten: 30 dB #Atten: 30 dB Particular Particolor Particolor <td>ALIGN AUTO</td> <td>03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100</td> <td>r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm</td> | ALIGN AUTO | 03:42:15 PM Ma 2000/2000 TRACE 2000/2000 RK:1 2.476 2 0.731 Mkr1 2.476 2 0.731 Stop 2.5760 Sweep 9.600 ms (100 | r 13, 2023 2 3 4 5 6 NNNNN GHZ dBm 19 93 dBm |



| | | g) NVNT 2-DH1 | 1 2402MHz Ho | opping Ref |
|---|---|---|------------------------------------|---|
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω | AC | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 03:43:19 PM Mar 13, 202 |
| enter Freq 2.40200 | 10000 GHZ PNO: W IFGain:L | ide ⊶⊷ Trig: Free Run .ow #Atten: 30 dB | #Avg Type: RMS Avg Hold: 2000/2 | 000 TYPE MWWWW DET P NNN |
| Ref Offset 2.3 | 4 dB | | | Mkr1 2.402 832 GH: 0.418 dBn |
| dB/div Ref 20.00 c | Bm | | | 0.418 0.81 |
| | | | | |
| .00 | | | | |
| 3.0 | | MM | my my m | mpyonmand |
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| 0.0 | - ANY | VWV | | |
| Marriana Marriana | mmmmm | | | |
| | | | | |
| | | | | |
| enter 2.402000 GHz Res BW 100 kHz | | #)/D)// 200 W- | | Span 8.000 MH: |
| Res BW 100 KHZ | | #VBW 300 kHz | STATUS | Sweep 1.000 ms (1001 pts |
| | | NVNT 2-DH1 2 | 402MHz Hopp | ing Emission |
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω | AC | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 03:43:53 PM Mar 13, 202 TRACE 12 3 4 5 |
| enter Freq 2.35600 | PNO: Fr IFGain:L | ast +++ Trig: Free Run .ow #Atten: 30 dB | Avg Hold: 2000/2 | 000 TYPE MWWWW DET P N N N N |
| Ref Offset 2.3 dB/div Ref 20.00 (| 34 dB | | | Mkr1 2.401 9 GH2 0.466 dBn |
| 0 dB/div Ref 20.00 (| | | | 1_ |
| .00 | | | | |
| | | | | |
| 0.0 | | | | -19.58 dBn |
| 0.0 0.0 0.0 | | | | -19.50 dBr |
| 0.0 0.0 0.0 | | | | -1p.58 dBn |
| | and at -2-to the matching could | | | |
| | rent al - 2-way mat any action | | | A 3 |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | | #VBW 300 kHz | | 5top 2,40600 GH |
| 0.0 0.0 0.0 | × 2.401 9 GHz | Y FUNCTION 0.466 dBm | | 4 3 Stop 2.40600 GHz Sweep 9.600 ms (1001 pts) FUNCTION VALUE |
| 0.0 | 2.401 9 GHz 2.400 0 GHz 2.400 0 GHz | Y FUNCTION 0.466 dBm -58.426 dBm -58.426 dBm | | Stop 2.40600 GHz Sweep 9.600 ms (1001 pts |
| 0 0 0 1 0 0 1 1 1 1 1 1 1 1 1 | 2.401 9 GHz 2.400 0 GHz | Y FUNCTION 0.466 dBm -58.426 dBm | FUNCTION WIDTH | Stop 2.40600 GHz Sweep 9.600 ms (1001 pts |
| 0.0 | 2.401 9 GHz 2.400 0 GHz 2.400 0 GHz | Y FUNCTION 0.466 dBm -58.426 dBm -58.426 dBm | | Stop 2.40600 GH Sweep 9.600 ms (1001 pts FUNCTION VALUE |
| 0 | 2.401 9 GHz 2.400 0 GHz 2.400 0 GHz | Y FUNCTION 0.466 dBm -58.426 dBm -58.426 dBm | FUNCTION WIDTH | Stop 2.40600 GH Sweep 9.600 ms (1001 pts FUNCTION VALUE |























10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. 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.

10.4 Test Result

| Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|-------|---|---|--|
| 1-DH1 | 2402 | 0.959 | Pass |
| 1-DH1 | 2441 | 1.018 | Pass |
| 1-DH1 | 2480 | 0.960 | Pass |
| 2-DH1 | 2402 | 1.367 | Pass |
| 2-DH1 | 2441 | 1.368 | Pass |
| 2-DH1 | 2480 | 1.369 | Pass |
| 3-DH1 | 2402 | 1.349 | Pass |
| 3-DH1 | 2441 | 1.348 | Pass |
| 3-DH1 | 2480 | 1.347 | Pass |
| | 1-DH1 1-DH1 2-DH1 2-DH1 2-DH1 3-DH1 3-DH1 | Mode (MHz) 1-DH1 2402 1-DH1 2441 1-DH1 2480 2-DH1 2402 2-DH1 2441 2-DH1 2441 3-DH1 2402 3-DH1 2441 | Mode (MHz) (MHz) 1-DH1 2402 0.959 1-DH1 2441 1.018 1-DH1 2480 0.960 2-DH1 2402 1.367 2-DH1 2441 1.368 2-DH1 2480 1.369 3-DH1 2402 1.349 3-DH1 2441 1.348 |





BC APPR







