



RF TEST REPORT

Product Name: Dash Cam

Model Name: HK30-A71-1

FCC ID: 2A22Z-HK30

Issued For : Botslab, Inc.

919 North Market Street, Suite 950, Wilmington, New Castle,
Delaware, USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT24B029RF01

Sample Received Date: Feb. 23, 2024

Date of Test: Feb. 23, 2024 – Mar. 14, 2024

Date of Issue: Mar. 14, 2024

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TEST REPORT CERTIFICATION

Applicant: Botslab, Inc.
Address: 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware, USA

Manufacturer: Botslab, Inc.
Address: 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware, USA

Product Name: Dash Cam

Trademark: Botslab

Model Name: HK30-A71-1

Sample Status: Normal

| APPLICABLE STANDARDS | |
|--|--------------|
| STANDARD | TEST RESULTS |
| FCC Part 15.247, Subpart C ANSI C63.10-2013 | PASS |

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Revision History

| Rev. | Issue Date | Contents |
|------|---------------|---------------|
| 00 | Mar. 14, 2024 | Initial Issue |
| | | |



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

| FCC Part 15.247, Subpart C | | | |
|-----------------------------------|---|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | N/A | -- |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | -- |
| 15.247 (b)(3) | Output Power | PASS | -- |
| 15.209 | Radiated Spurious Emission | PASS | -- |
| 15.247 (d) | Conducted Spurious & Band Edge Emission | PASS | -- |
| 15.247 (e) | Power Spectral Density | PASS | -- |
| 15.205 | Restricted Band Edge Emission | PASS | -- |
| Part 15.247(d)/ Part 15.209(a) | Band Edge Emission | PASS | -- |
| 15.203 | Antenna Requirement | PASS | -- |

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

| | |
|---------------------------|--|
| Company Name: | Shenzhen LGT Test Service Co., Ltd. |
| Address: | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate | A2LA Certificate No.: 6727.01 |
| | FCC Registration No.: 746540 |
| | CAB ID: CN0136 |

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

| No. | Item | Uncertainty |
|-----|---------------------------------------|---------------|
| 1 | RF Output Power, Conducted | ± 0.71 dB |
| 2 | Power Spectral Density, Conducted | ± 1.57 dB |
| 3 | Unwanted Emission, Conducted | ± 0.63 dB |
| 4 | Conducted emission | ± 2.80 dB |
| 5 | All Emissions, Radiated (0.009-30MHz) | ± 2.16 dB |
| 6 | All Emissions, Radiated (30MHz-1GHz) | ± 4.40 dB |
| 7 | All Emissions, Radiated (1GHz-18GHz) | ± 5.49 dB |
| 8 | Occupied Channel Bandwidth | ± 3.2 % |
| 9 | Occupied Channel Bandwidth | ± 3.2 % |

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

| | | |
|-------------------------|---|---|
| Product Name: | Dash Cam | |
| Trademark: | Botslab | |
| Model Name: | HK30-A71-1 | |
| Series Model: | N/A | |
| Model Difference: | N/A | |
| Product Description: | Operation Frequency: | 802.11b/g/n: 2412~2462 MHz |
| | Modulation Type: | 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM |
| | Number of Channel: | 802.11b/g/n: 11CH |
| | Antenna Designation: | Metal |
| | Antenna Gain(dBi): | -0.36 |
| Channel List: | Please refer to the Note 3. | |
| Adapter: | Input: DC 12-24V Output: DC 5V, 1.5A | |
| Battery: | Capacity: 200mAh Rated Voltage: 3.7V | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| Connecting I/O Port(s): | Please refer to the Note 1. | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

| Operation Frequency of channel | | | |
|--------------------------------|-----------|--|--|
| 802.11b/g/n(20MHz) | | | |
| Channel | Frequency | | |
| 01 | 2412 | | |
| 02 | 2417 | | |
| 03 | 2422 | | |
| 04 | 2427 | | |
| 05 | 2432 | | |
| 06 | 2437 | | |
| 07 | 2442 | | |
| 08 | 2447 | | |
| 09 | 2452 | | |
| 10 | 2457 | | |
| 11 | 2462 | | |

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 below:

Carrier Frequency Channel

2.4GHz Test Frequency:

| For 802.11b/g/n (HT20) | |
|------------------------|------------|
| Channel | Freq.(MHz) |
| 01 | 2412 |
| 06 | 2437 |
| 11 | 2462 |



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Worst Mode | Description | Data Rate |
|------------|---------------------------|-----------|
| Mode 1 | TX IEEE 802.11b CH1 | 1 Mbps |
| Mode 2 | TX IEEE 802.11b CH6 | 1 Mbps |
| Mode 3 | TX IEEE 802.11 b CH11 | 1 Mbps |
| Mode 4 | TX IEEE 802.11g CH1 | 6 Mbps |
| Mode 5 | TX IEEE 802.11g CH6 | 6 Mbps |
| Mode 6 | TX IEEE 802.11g CH11 | 6 Mbps |
| Mode 7 | TX IEEE 802.11n HT20 CH1 | MCS 0 |
| Mode 8 | TX IEEE 802.11n HT20 CH6 | MCS 0 |
| Mode 9 | TX IEEE 802.11n HT20 CH11 | MCS 0 |

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

AC Conducted Emission

| Test Case | |
|-----------------------|---------------------------------|
| AC Conducted Emission | Mode 10: Keeping TX + WLAN Link |

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| Test software Version | Test program: 2.4G WIFI | |
|-----------------------|-------------------------|---------------|
| | Mode Or Modulation type | Power setting |
| FCCShow_V1.1 | b | 45 |
| | g | 45 |
| | n20 | 40 |



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Accessories Equipment

| Description | Manufacturer | Model | S/N | Rating |
|--------------------------|--------------|--------|-----|---|
| USB-A to Micro-USB Cable | N/A | N/A | N/A | 3.5m |
| Car charger | shounuo xin | JP718H | N/A | Input: DC 12-24V Output: DC 5V, 1.5A |
| | | | | |
| | | | | |

Auxiliary Equipment

| Description | Manufacturer | Model | S/N | Rating |
|-------------|--------------|--------|-----|--------|
| Laptop | Lenovo | HKF-16 | N/A | N/A |
| | | | | |
| | | | | |

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

| Conducted Emission | | | | | |
|---------------------------|---------------------|-----------|-------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until |
| EMI Test Receiver | R&S | ESU8 | 100372 | 2023.04.13 | 2024.04.12 |
| LISN | COM-POWER | LI-115 | 02032 | 2023.04.07 | 2024.04.06 |
| LISN | SCHWARZBECK | NNLK 8122 | 00160 | 2023.04.07 | 2024.04.06 |
| Transient Limiter | CYBERTEK | EM5010A | E2250100049 | 2023.04.07 | 2024.04.06 |
| Temperature & Humidity | KTJ | TA218B | N.A | 2023.04.24 | 2024.04.23 |
| Testing Software | EMC-I_V1.4.0.3_SKET | | | | |

| Radiation Test equipment | | | | | |
|---------------------------------|---------------------|---------------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until |
| EMI Test Receiver | R&S | ESU | 100372 | 2023.04.13 | 2024.04.12 |
| Spectrum Analyzer | Keysight | N9010B | MY60242508 | 2023.04.10 | 2024.04.09 |
| Active loop Antenna | ETS | 6502 | 00049544 | 2023.04.10 | 2024.04.09 |
| Bilog Antenna(30M-1G) | SCHWARZBECK | VULB 9168 | 01447 | 2022.06.05 | 2025.06.04 |
| Horn Antenna(1-18G) | SCHWARZBECK | 3115 | 10SL0060 | 2022.06.02 | 2025.06.01 |
| Horn Antenna(18-40G) | A-INFO | LB-180400-KF | J211060273 | 2022.06.08 | 2025.06.07 |
| Pre-amplifier(30M-1G) | EMtrace | RP01A | 02019 | 2023.05.10 | 2024.05.09 |
| Pre-amplifier(9kHz-1GHz) | EMtrace | RP01A | 02017 | 2023.04.07 | 2024.04.06 |
| Pre-amplifier(1-26.5G) | Agilent | 8449B | 3008A4722 | 2023.04.07 | 2024.04.06 |
| RE Cable (9K-1G) | N.A | R01 | N.A | 2023.04.07 | 2024.04.06 |
| RE Cable (1-26G) | N.A | R02 | N.A | 2023.04.07 | 2024.04.06 |
| Horn Antenna(18-40G) | A-INFO | LB-180400-KF | J211060273 | 2022.06.08 | 2025.06.07 |
| Pre-amplifier(18-40G) | com-mw | LNPA_18-40-01 | 18050003 | 2023.04.07 | 2024.04.06 |
| Temperature & Humidity | KTJ | TA218B | N.A | 2023.04.24 | 2024.04.23 |
| Testing Software | EMC-I_V1.4.0.3_SKET | | | | |

| RF Connected Test equipment | | | | | |
|-------------------------------------|----------------------------|-----------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until |
| Signal Generator | Keysight | N5182B | MY59100717 | 2023.04.10 | 2024.04.09 |
| Signal Analyzer | Keysight | N9010B | MY60242508 | 2023.04.13 | 2024.04.12 |
| Wireless Communications Test Set | R&S | CMW 500 | 137737 | 2023.04.13 | 2024.04.12 |
| Temperature & Humidity | KTJ | TA218B | N/A | 2023.04.24 | 2024.04.23 |
| Temperature & Humidity test chamber | AISRY | LX-1000L | 171200018 | 2023.05.10 | 2024.05.09 |
| Attenuator | eastsheep | 90db | N/A | 2023.04.10 | 2024.04.09 |
| Testing Software | MTS 8310_2.0.0.0_MWRF-TEST | | | | |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

| FREQUENCY (MHz) | Conducted Emission limit (dBuV) | |
|-----------------|---------------------------------|-----------|
| | Quasi-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 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

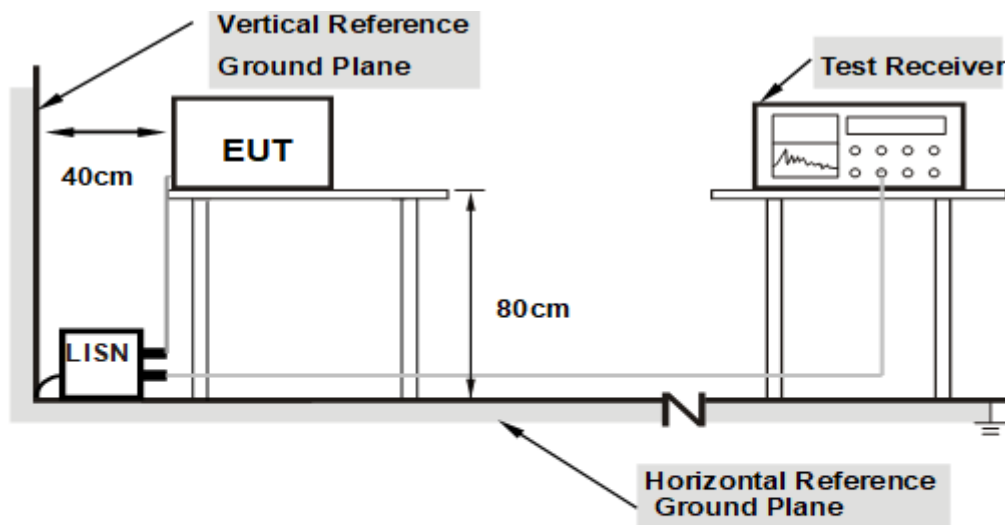
| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |



3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 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.

3.1.5 TEST RESULT

Note: This EUT is connected to the onboard power supply, does not require test conduction .



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

| Frequencies (MHz) | Field Strength (micorvolts/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 |

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

| FREQUENCY (MHz) | (dBuV/m) (at 3M) | |
|-----------------|------------------|---------|
| | 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).

LIMITS OF RESTRICTED FREQUENCY BANDS

| FREQUENCY (MHz) | FREQUENCY (MHz) | FREQUENCY (MHz) | FREQUENCY (GHz) |
|-------------------|---------------------|-----------------|-----------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 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 | Above 38.6 |
| 13.36-13.41 | | | |



For Radiated Emission

| Spectrum Parameter | Setting |
|---------------------------------------|---|
| Attenuation | Auto |
| Detector | Peak/QP/AV |
| Start Frequency | 9 KHz/150KHz(Peak/QP/AV) |
| Stop Frequency | 150KHz/30MHz(Peak/QP/AV) |
| RB / VB (emission in restricted band) | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |

| Spectrum Parameter | Setting |
|---------------------------------------|--------------------|
| Attenuation | Auto |
| Detector | Peak/QP |
| Start Frequency | 30 MHz(Peak/QP) |
| Stop Frequency | 1000 MHz (Peak/QP) |
| RB / VB (emission in restricted band) | 120 KHz / 300 KHz |

| Spectrum Parameter | Setting |
|---------------------------------------|---|
| Attenuation | Auto |
| Detector | Peak |
| Start Frequency | 1000 MHz(Peak/AV) |
| Stop Frequency | 10th carrier harmonic(Peak/AV) |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG) |

For Restricted band

| Spectrum Parameter | Setting |
|----------------------|--|
| Detector | Peak |
| Start/Stop Frequency | Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz |
| RB / VB | 1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG) |

| Receiver Parameter | Setting |
|------------------------|--------------------------------------|
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

3.2.2 TEST PROCEDURE

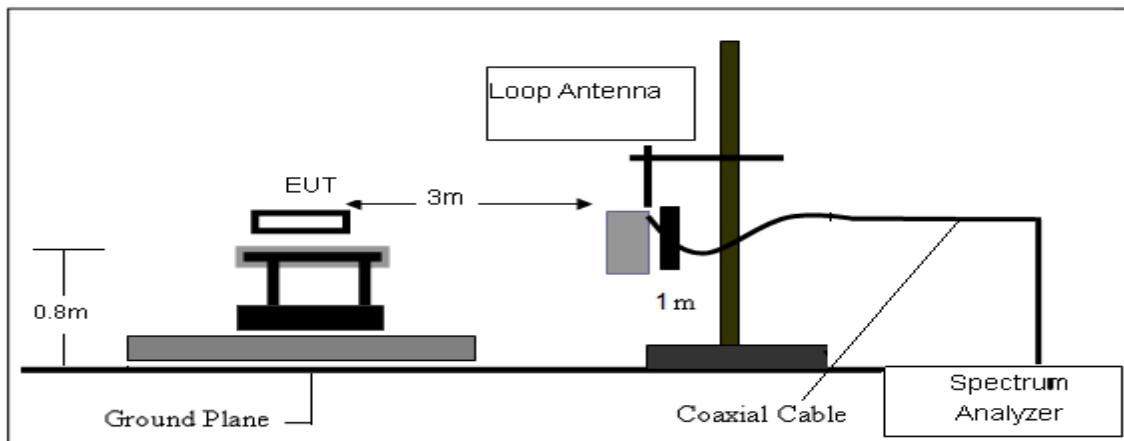
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

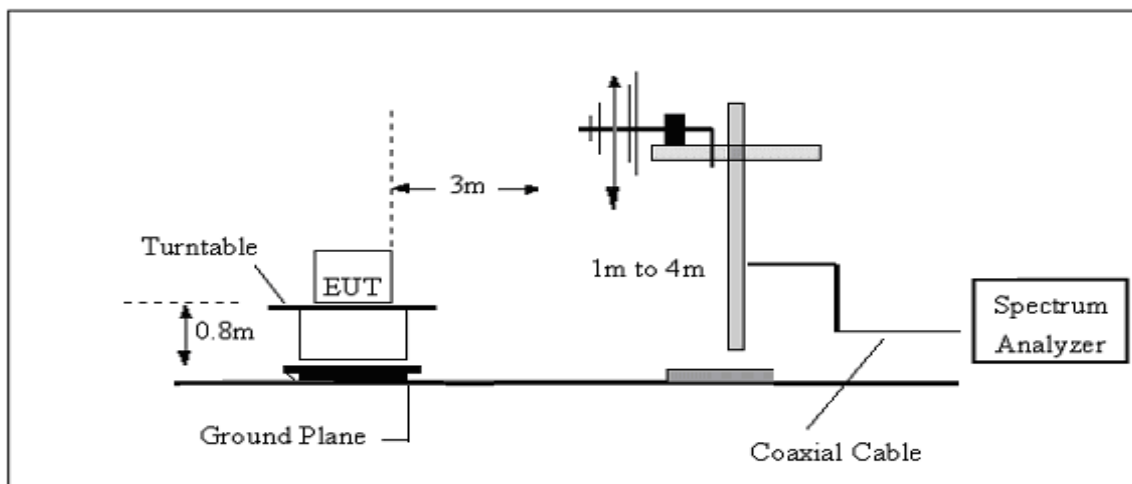
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

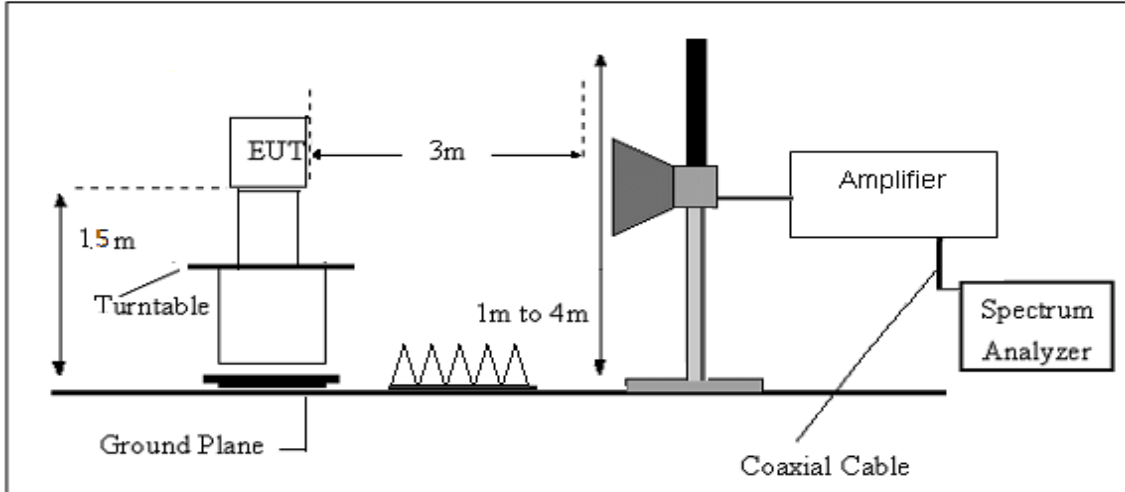
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

| Frequency (MHz) | FS (dB μ V/m) | RA (dB μ V/m) | AF (dB) | CL (dB) | AG (dB) | Factor (dB) |
|--------------------|----------------------|----------------------|------------|------------|------------|----------------|
| 300 | 40 | 58.1 | 12.2 | 1.6 | 31.9 | -18.1 |

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULT

Results of Radiated Emissions (9 KHz~30MHz)

| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Remark |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------------|
| 1* | - | - | - | - | - | - | - | See Note |

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

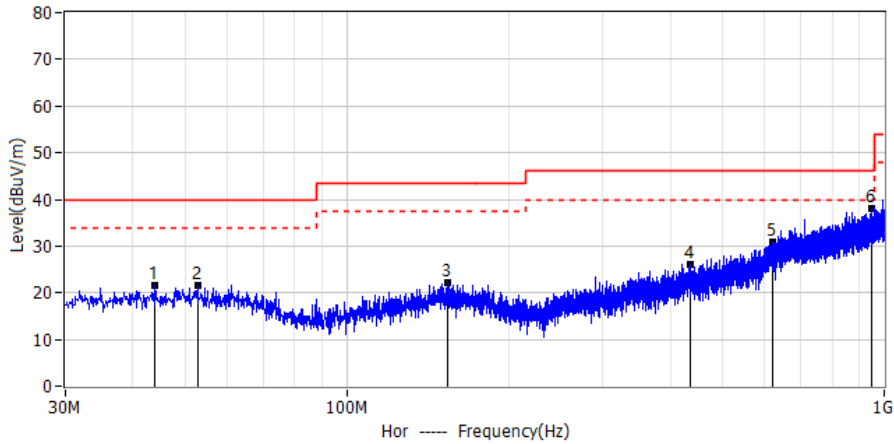
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

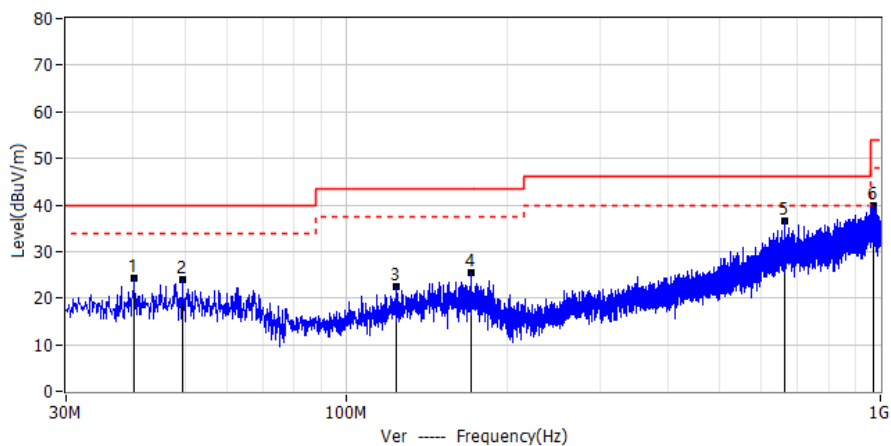


Results of Radiated Emissions (30MHz~1000MHz)

| | |
|----------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 21.5°C |
| M/N: HK30-A71-1 | Humidity: 57%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-14 |
| Test Mode: TX 802.11b 2412 | |
| Note: | |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 44.065 | 2.32 | 19.25 | 21.57 | 40.00 | -18.43 | QP | Hor |
| 2* | 52.916 | 2.53 | 19.15 | 21.68 | 40.00 | -18.32 | QP | Hor |
| 3* | 154.160 | 2.15 | 19.93 | 22.08 | 43.50 | -21.42 | QP | Hor |
| 4* | 435.096 | 2.72 | 23.45 | 26.17 | 46.00 | -19.83 | QP | Hor |
| 5* | 620.488 | 2.32 | 28.43 | 30.75 | 46.00 | -15.25 | QP | Hor |
| 6* | 946.771 | 4.20 | 33.88 | 38.08 | 46.00 | -7.92 | QP | Hor |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 40.306 | 5.02 | 19.37 | 24.39 | 40.00 | -15.61 | QP | Ver |
| 2* | 49.521 | 4.63 | 19.35 | 23.98 | 40.00 | -16.02 | QP | Ver |
| 3* | 124.211 | 4.53 | 18.00 | 22.53 | 43.50 | -20.97 | QP | Ver |
| 4* | 171.620 | 5.80 | 19.63 | 25.43 | 43.50 | -18.07 | QP | Ver |
| 5* | 662.440 | 7.21 | 29.38 | 36.59 | 46.00 | -9.41 | QP | Ver |
| 6* | 972.840 | 5.50 | 34.40 | 39.90 | 54.00 | -14.10 | QP | Ver |

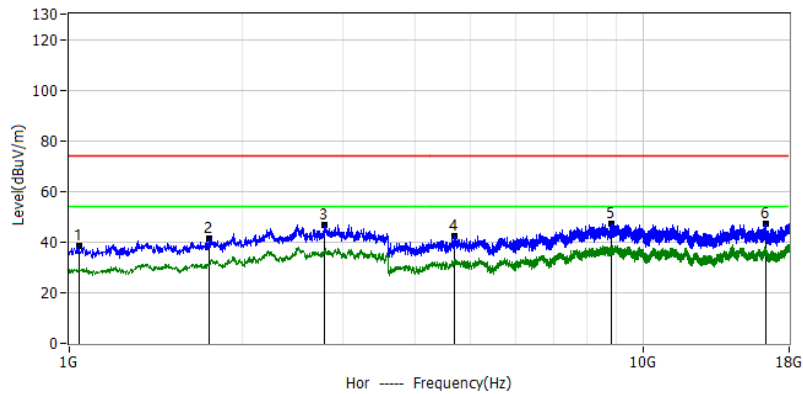


Results of Radiated Emissions (Above 1000MHz)

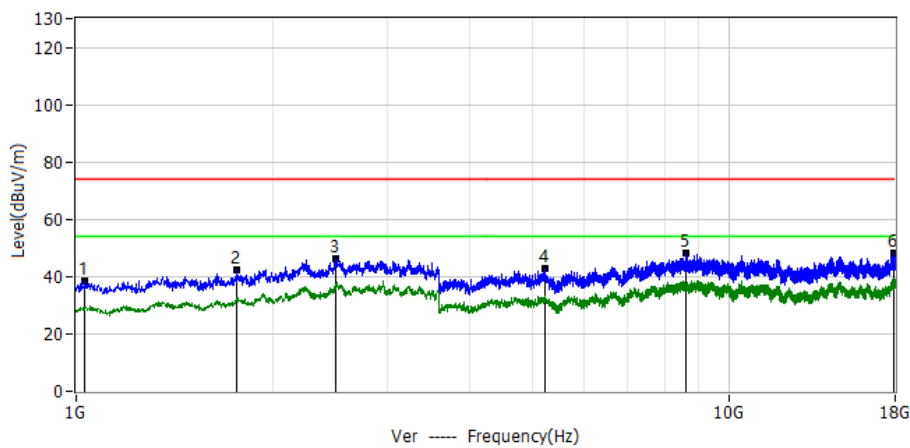
Note: 1. All the modes have been tested, found worst case at IEEE 802.11b, recorded the worst case results in this report.

2. The peak value is less than the AV limit, so no AV data is displayed.

| | |
|-------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 25°C |
| M/N: HK30-A71-1 | Humidity: 45%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-13 |
| Test Mode: 802.11b 2412 | |
| Note: | |



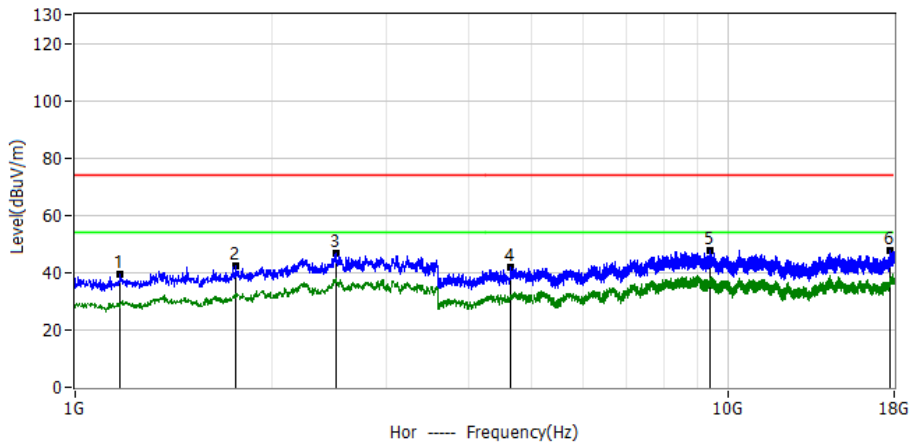
| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1.040GHz | 62.81 | -24.40 | 38.41 | 74.00 | -35.59 | PK | Hor |
| 2* | 1.752GHz | 60.37 | -18.87 | 41.50 | 74.00 | -32.50 | PK | Hor |
| 3* | 2.787GHz | 56.72 | -9.85 | 46.87 | 74.00 | -27.13 | PK | Hor |
| 4* | 4.700GHz | 49.22 | -6.70 | 42.52 | 74.00 | -31.48 | PK | Hor |
| 5* | 8.805GHz | 51.46 | -4.03 | 47.43 | 74.00 | -26.57 | PK | Hor |
| 6* | 16.396GHz | 46.67 | 0.78 | 47.45 | 74.00 | -26.55 | PK | Hor |



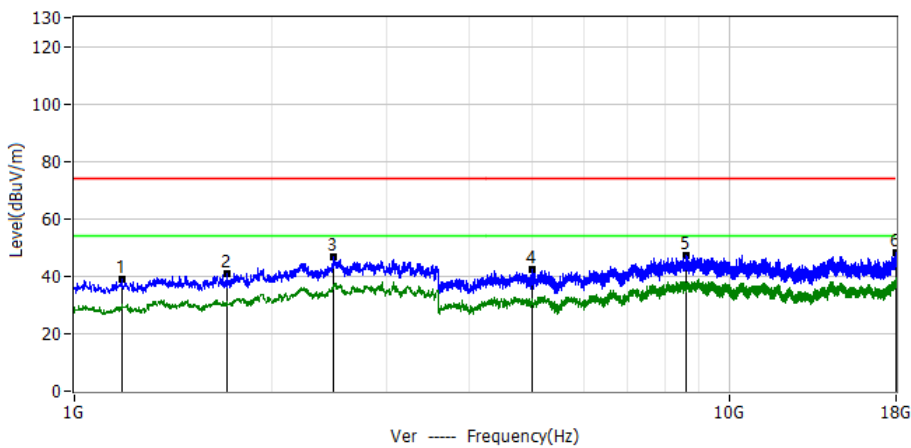
| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1.032GHz | 62.88 | -24.47 | 38.41 | 74.00 | -35.59 | PK | Ver |
| 2* | 1.761GHz | 60.96 | -18.79 | 42.17 | 74.00 | -31.83 | PK | Ver |
| 3* | 2.502GHz | 57.38 | -11.29 | 46.09 | 74.00 | -27.91 | PK | Ver |
| 4* | 5.229GHz | 50.58 | -7.78 | 42.80 | 74.00 | -31.20 | PK | Ver |
| 5* | 8.588GHz | 52.39 | -4.42 | 47.97 | 74.00 | -26.03 | PK | Ver |
| 6* | 17.941GHz | 46.40 | 1.99 | 48.39 | 74.00 | -25.61 | PK | Ver |



| | |
|-------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 25°C |
| M/N: HK30-A71-1 | Humidity: 45%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-13 |
| Test Mode: 802.11b 2437 | |
| Note: | |



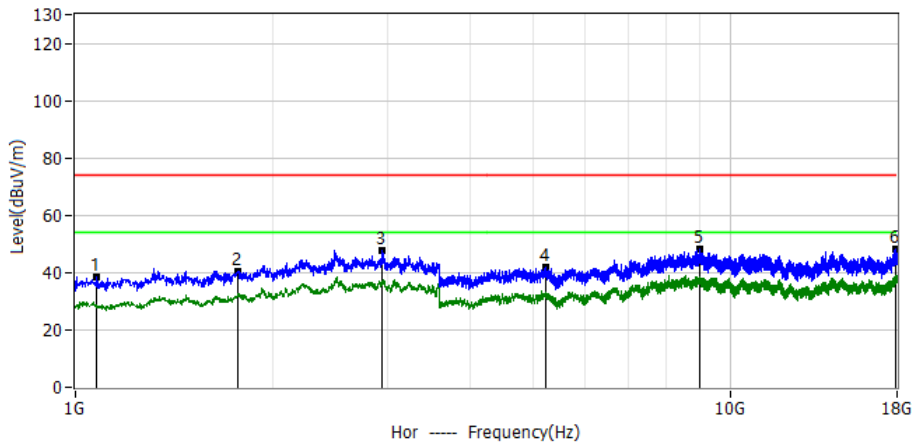
| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1.172GHz | 62.55 | -23.25 | 39.30 | 74.00 | -34.70 | PK | Hor |
| 2* | 1.765GHz | 61.17 | -18.75 | 42.42 | 74.00 | -31.58 | PK | Hor |
| 3* | 2.507GHz | 57.97 | -11.27 | 46.70 | 74.00 | -27.30 | PK | Hor |
| 4* | 4.657GHz | 48.71 | -6.66 | 42.05 | 74.00 | -31.95 | PK | Hor |
| 5* | 9.375GHz | 51.72 | -3.86 | 47.86 | 74.00 | -26.14 | PK | Hor |
| 6* | 17.756GHz | 45.97 | 1.91 | 47.88 | 74.00 | -26.12 | PK | Hor |



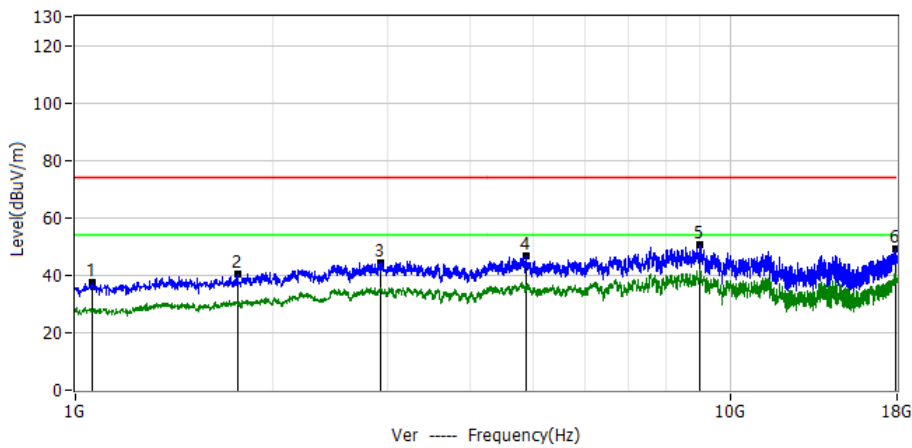
| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1.183GHz | 62.12 | -23.16 | 38.96 | 74.00 | -35.04 | PK | Ver |
| 2* | 1.708GHz | 60.25 | -19.29 | 40.96 | 74.00 | -33.04 | PK | Ver |
| 3* | 2.492GHz | 57.95 | -11.39 | 46.56 | 74.00 | -27.44 | PK | Ver |
| 4* | 4.993GHz | 49.23 | -6.99 | 42.24 | 74.00 | -31.76 | PK | Ver |
| 5* | 8.584GHz | 51.60 | -4.43 | 47.17 | 74.00 | -26.83 | PK | Ver |
| 6* | 17.998GHz | 46.11 | 2.02 | 48.13 | 74.00 | -25.87 | PK | Ver |



| | |
|-------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 25°C |
| M/N: HK30-A71-1 | Humidity: 45%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-13 |
| Test Mode: 802.11b 2462 | |
| Note: | |



| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1.077GHz | 62.72 | -24.08 | 38.64 | 74.00 | -35.36 | PK | Hor |
| 2* | 1.767GHz | 59.37 | -18.73 | 40.64 | 74.00 | -33.36 | PK | Hor |
| 3* | 2.947GHz | 56.93 | -9.04 | 47.89 | 74.00 | -26.11 | PK | Hor |
| 4* | 5.225GHz | 49.75 | -7.76 | 41.99 | 74.00 | -32.01 | PK | Hor |
| 5* | 8.990GHz | 51.67 | -3.69 | 47.98 | 74.00 | -26.02 | PK | Hor |
| 6* | 17.930GHz | 46.30 | 1.99 | 48.29 | 74.00 | -25.71 | PK | Hor |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 1061.6000 | 61.58 | -24.21 | 37.37 | 74.00 | -36.63 | PK | Ver |
| 2* | 1767.1000 | 59.14 | -18.73 | 40.41 | 74.00 | -33.59 | PK | Ver |
| 3* | 2918.9000 | 53.67 | -9.18 | 44.49 | 74.00 | -29.51 | PK | Ver |
| 4* | 4890.9000 | 53.62 | -6.89 | 46.73 | 74.00 | -27.27 | PK | Ver |
| 5* | 9011.2000 | 54.25 | -3.68 | 50.57 | 74.00 | -23.43 | PK | Ver |
| 6* | 17915.0000 | 47.25 | 1.98 | 49.23 | 74.00 | -24.77 | PK | Ver |

Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

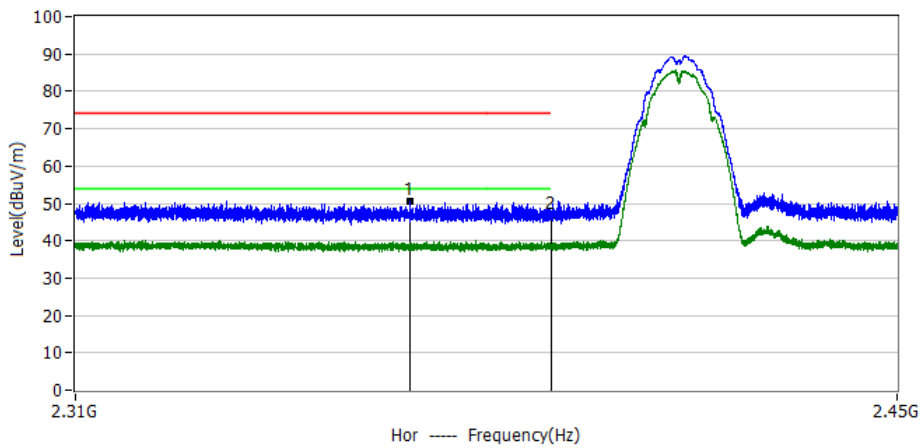


3.2.7 TEST RESULTS(Band edge Requirements)

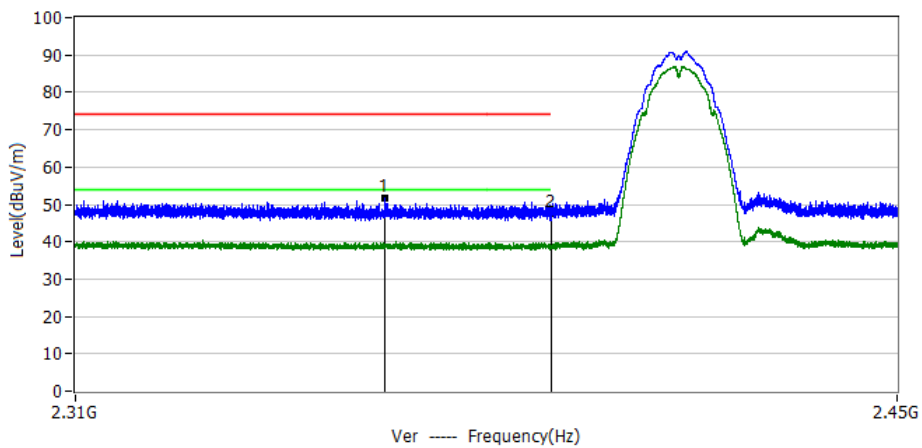
Note: 1. All the modes have been tested, found worst case at IEEE 802.11b, recorded the worst case results in this report.

2. The peak value is less than the AV limit, so no AV data is displayed.

| | |
|-------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 25°C |
| M/N: HK30-A71-1 | Humidity: 45%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-13 |
| Test Mode: 802.11b 2412 | |
| Note: | |



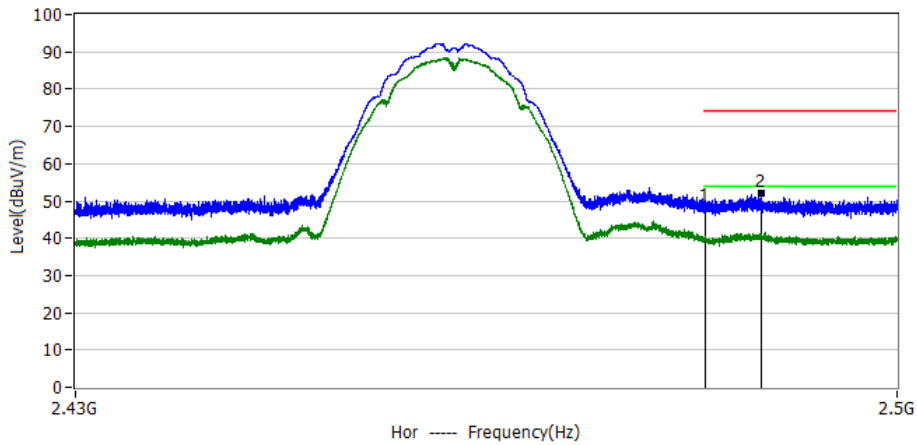
| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 2366.1000 | 16.66 | 34.01 | 50.67 | 74.00 | -23.33 | PK | Hor |
| 2* | 2390.0000 | 12.75 | 33.95 | 46.70 | 74.00 | -27.30 | PK | Hor |



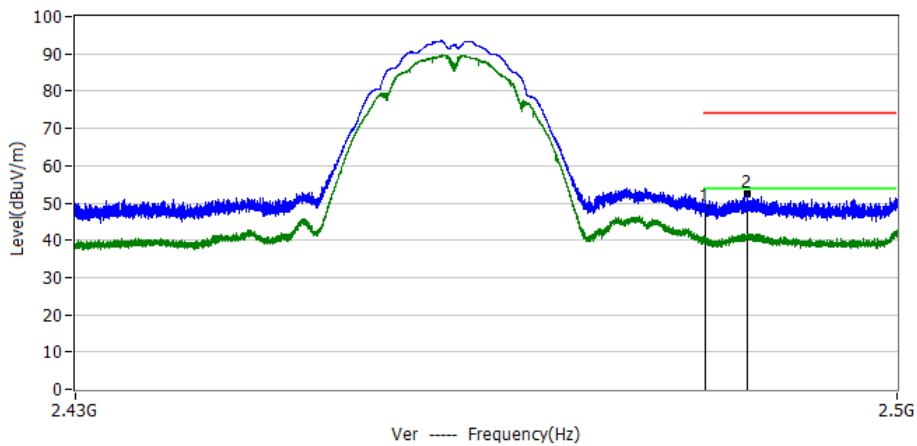
| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 2361.8000 | 17.53 | 34.02 | 51.55 | 74.00 | -22.45 | PK | Ver |
| 2* | 2390.0000 | 13.55 | 33.95 | 47.50 | 74.00 | -26.50 | PK | Ver |



| | |
|-------------------------|-----------------------------|
| Project: LGT24B029 | Test Engineer: Xiangdong Ma |
| EUT: Dash Cam | Temperature: 25°C |
| M/N: HK30-A71-1 | Humidity: 45%RH |
| Test Voltage: DC 12V | Test Data: 2024-03-13 |
| Test Mode: 802.11b 2462 | |
| Note: | |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 2483.5000 | 14.07 | 34.13 | 48.20 | 74.00 | -25.80 | PK | Hor |
| 2* | 2488.3000 | 17.80 | 34.14 | 51.94 | 74.00 | -22.06 | PK | Hor |



| No. | Frequency MHz | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|---------------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1* | 2483.5000 | 14.67 | 34.13 | 48.80 | 74.00 | -25.20 | PK | Ver |
| 2* | 2487.1000 | 18.43 | 34.13 | 52.56 | 74.00 | -21.44 | PK | Ver |



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

| Spectrum Parameter | Setting |
|---------------------------------------|---------------------------------|
| Detector | Peak |
| Start/Stop Frequency | 30 MHz to 10th carrier harmonic |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

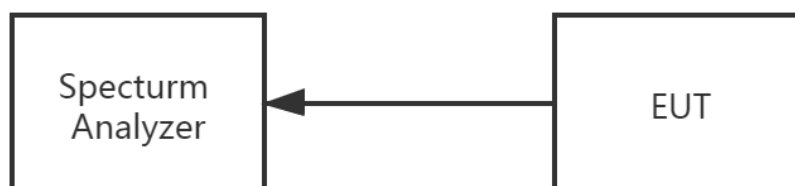
For Band edge

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Detector | Peak |
| Start/Stop Frequency | Lower Band Edge: 2300 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.



5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

| FCC Part15.247 , Subpart C | | | | |
|----------------------------|------------------------|------------------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(e) | Power Spectral Density | ≤ 8 dBm (RBW ≥ 3 KHz) | 2400-2483.5 | PASS |

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

For the measurement records, refer to the appendix I.



6. BANDWIDTH TEST

6.1 LIMIT

| FCC Part15.247,Subpart C | | | | |
|--------------------------|-----------|---|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | $\geq 500\text{KHz}$ (6dB bandwidth) | 2400-2483.5 | PASS |

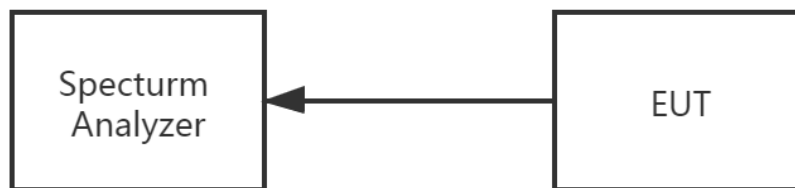
6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



7. PEAK OUTPUT POWER TEST

7.1 LIMIT

| FCC Part15.247,Subpart C | | | | |
|--------------------------|--------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

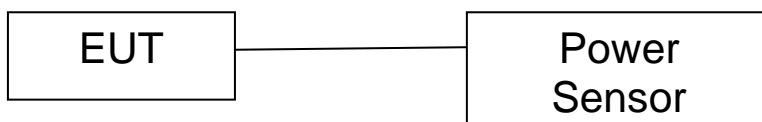
PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

For the measurement records, refer to the appendix I.



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

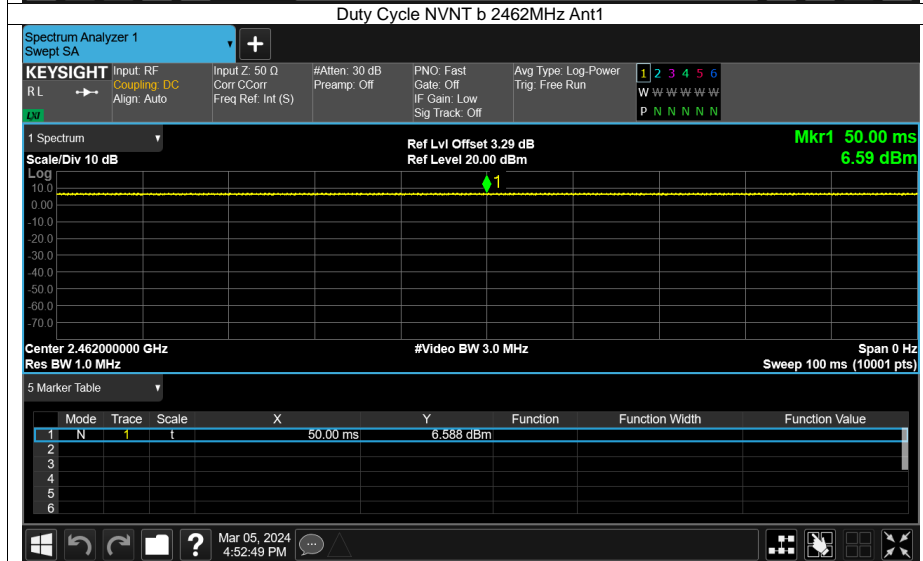
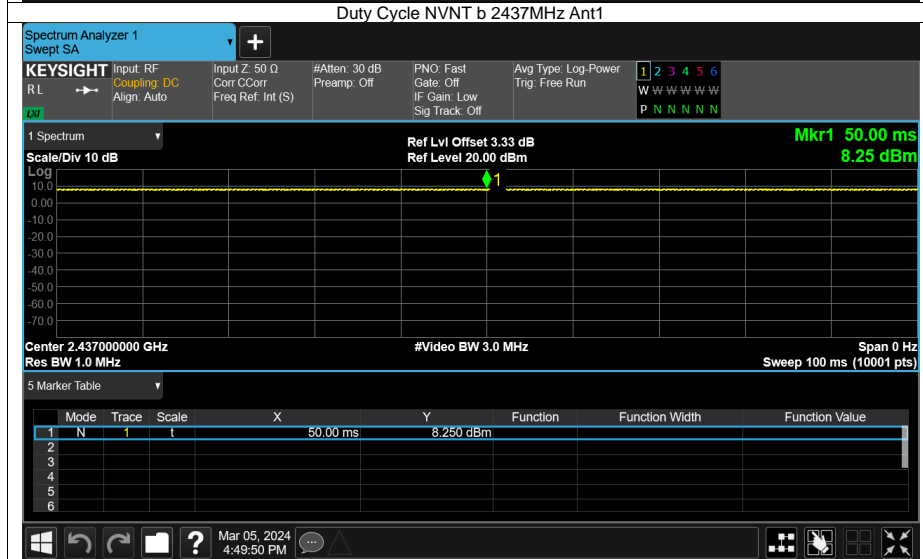
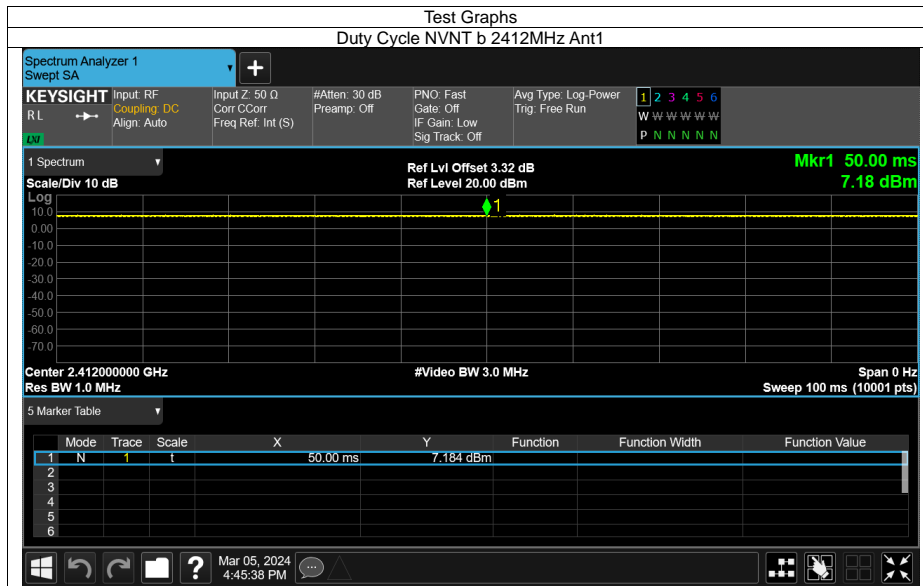
The EUT antenna is Metal Antenna. It comply with the standard requirement.

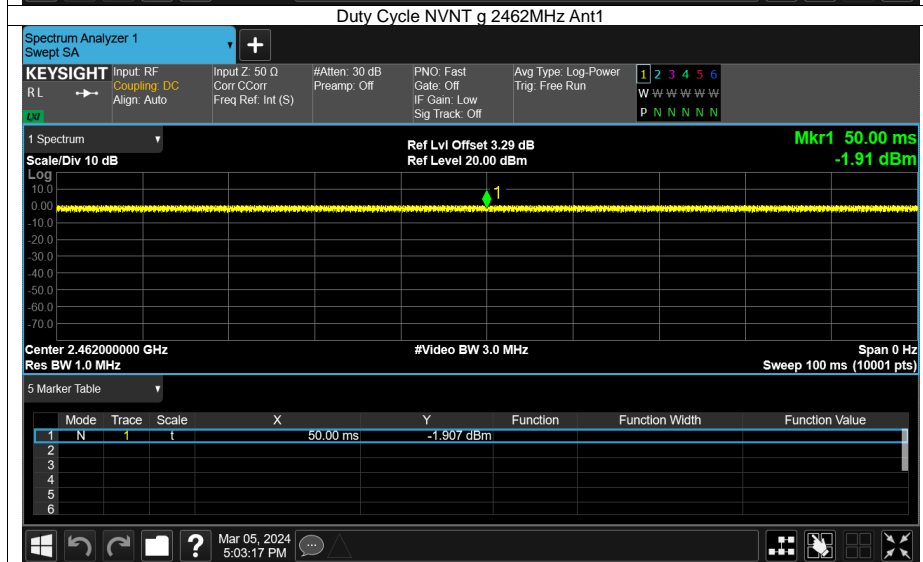
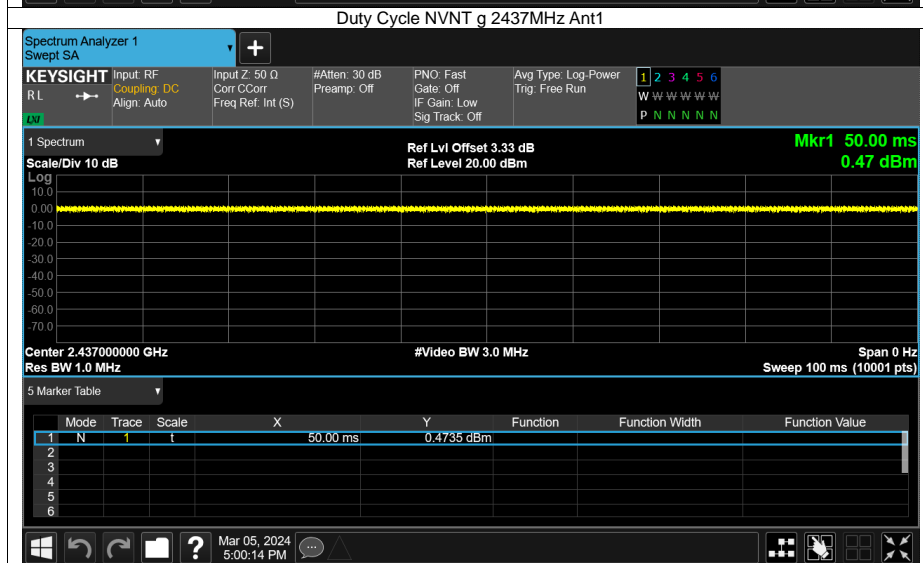
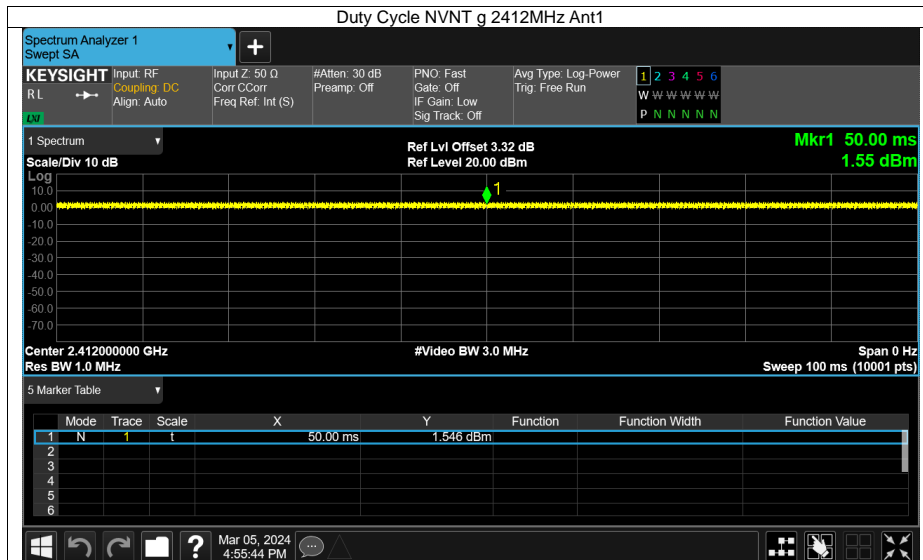


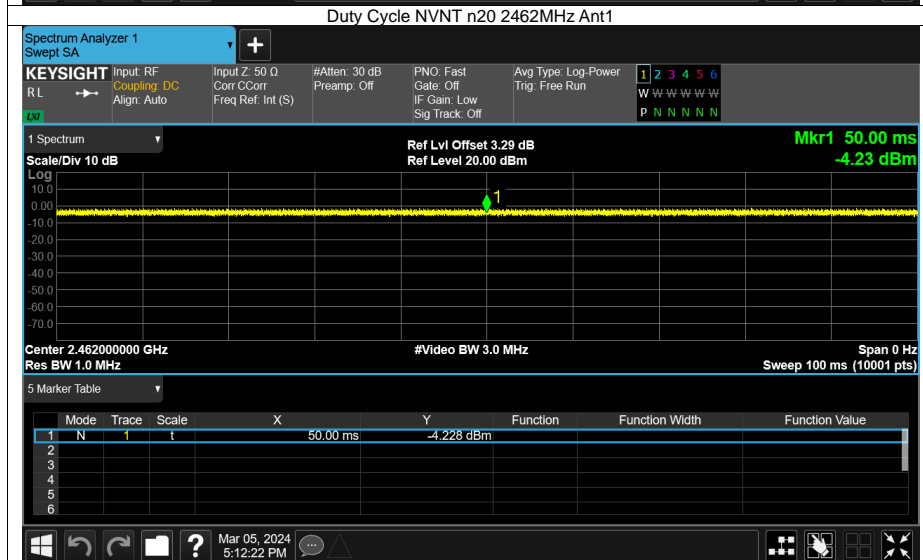
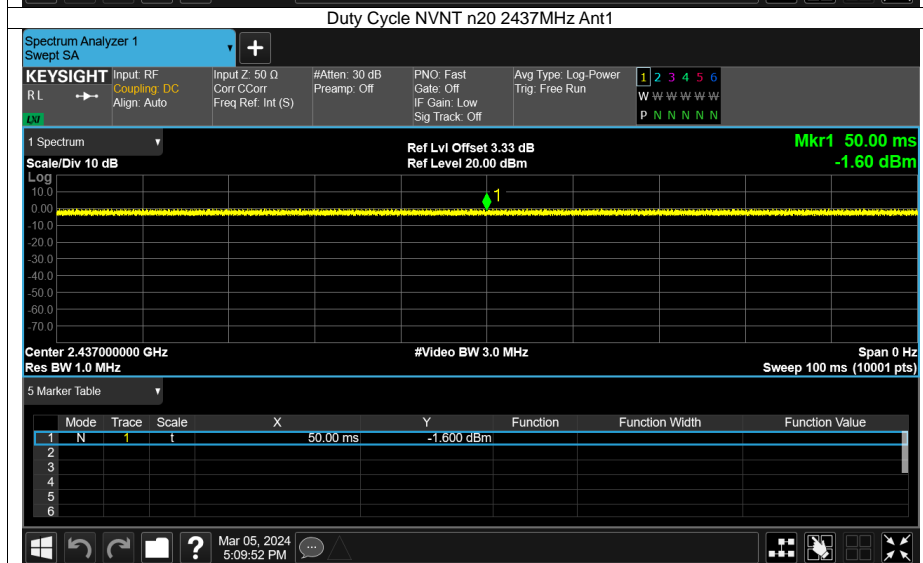
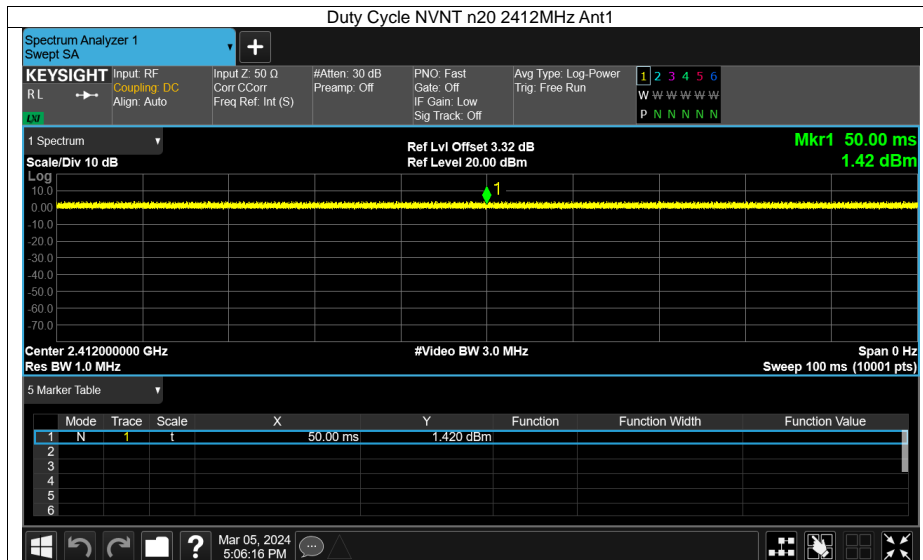
APPENDIX I - TEST RESULTS

Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT | b | 2412 | Ant1 | 100 | 0 | 0.01 |
| NVNT | b | 2437 | Ant1 | 100 | 0 | 0.01 |
| NVNT | b | 2462 | Ant1 | 100 | 0 | 0.01 |
| NVNT | g | 2412 | Ant1 | 100 | 0 | 0.01 |
| NVNT | g | 2437 | Ant1 | 100 | 0 | 0.01 |
| NVNT | g | 2462 | Ant1 | 100 | 0 | 0.01 |
| NVNT | n20 | 2412 | Ant1 | 100 | 0 | 0.01 |
| NVNT | n20 | 2437 | Ant1 | 100 | 0 | 0.01 |
| NVNT | n20 | 2462 | Ant1 | 100 | 0 | 0.01 |









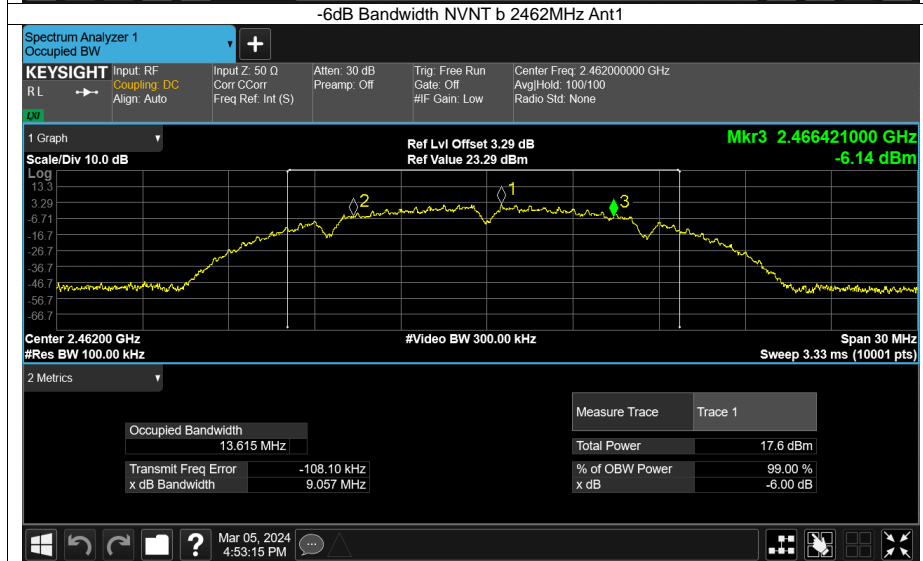
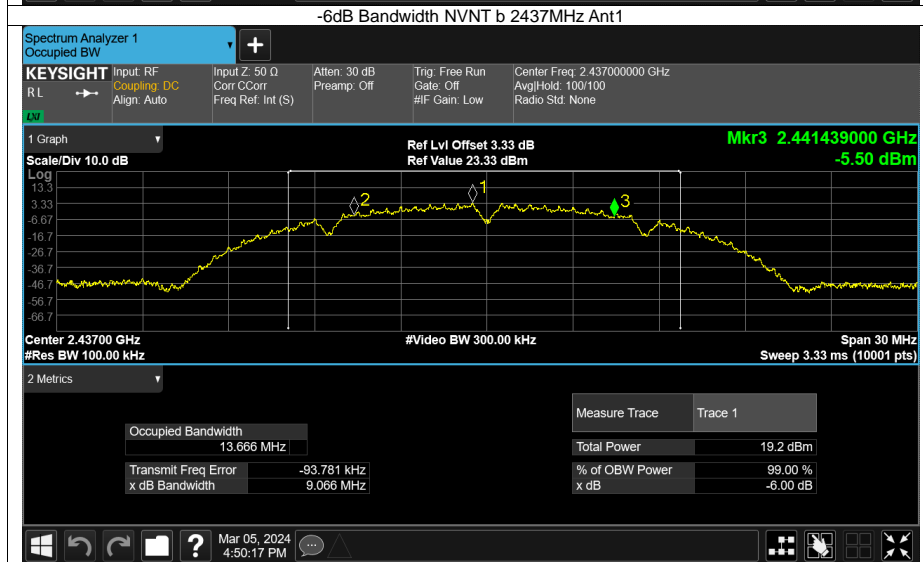
Maximum Peak Conducted Output Power

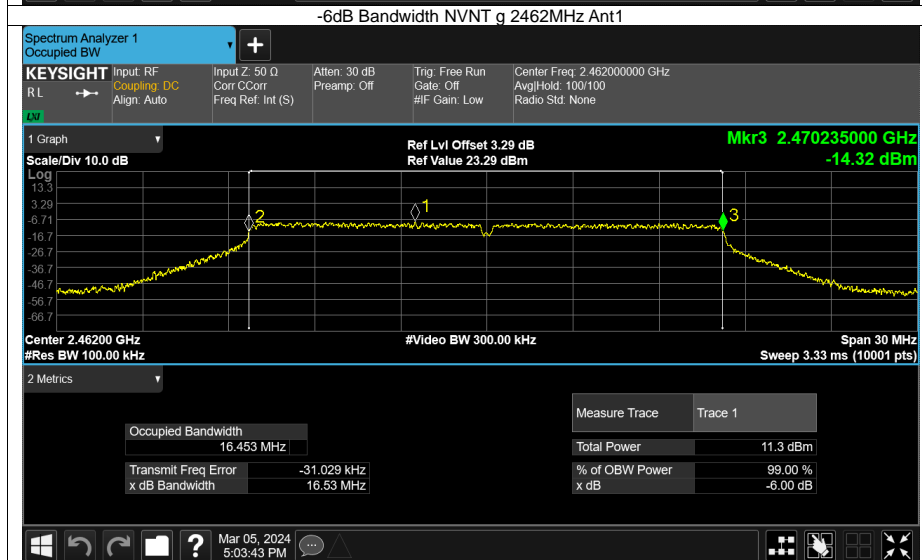
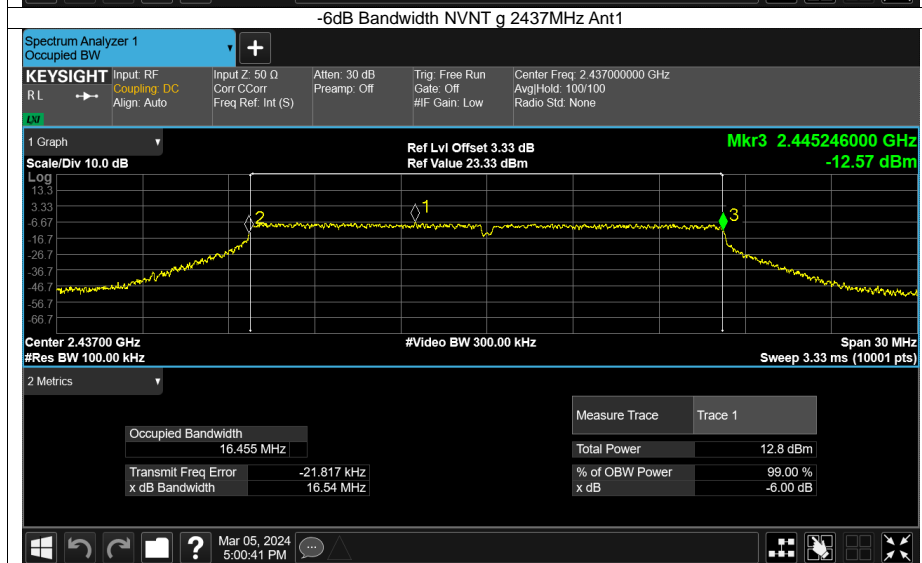
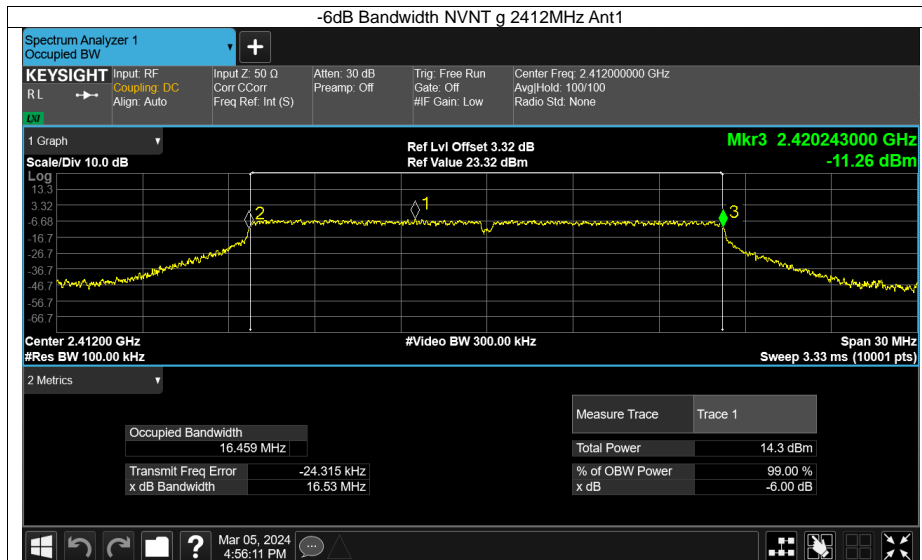
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | 16.56 | 30 | Pass |
| NVNT | b | 2437 | Ant1 | 14.32 | 30 | Pass |
| NVNT | b | 2462 | Ant1 | 12.76 | 30 | Pass |
| NVNT | g | 2412 | Ant1 | 13.09 | 30 | Pass |
| NVNT | g | 2437 | Ant1 | 11.61 | 30 | Pass |
| NVNT | g | 2462 | Ant1 | 10.2 | 30 | Pass |
| NVNT | n20 | 2412 | Ant1 | 11.5 | 30 | Pass |
| NVNT | n20 | 2437 | Ant1 | 9.57 | 30 | Pass |
| NVNT | n20 | 2462 | Ant1 | 8.01 | 30 | Pass |

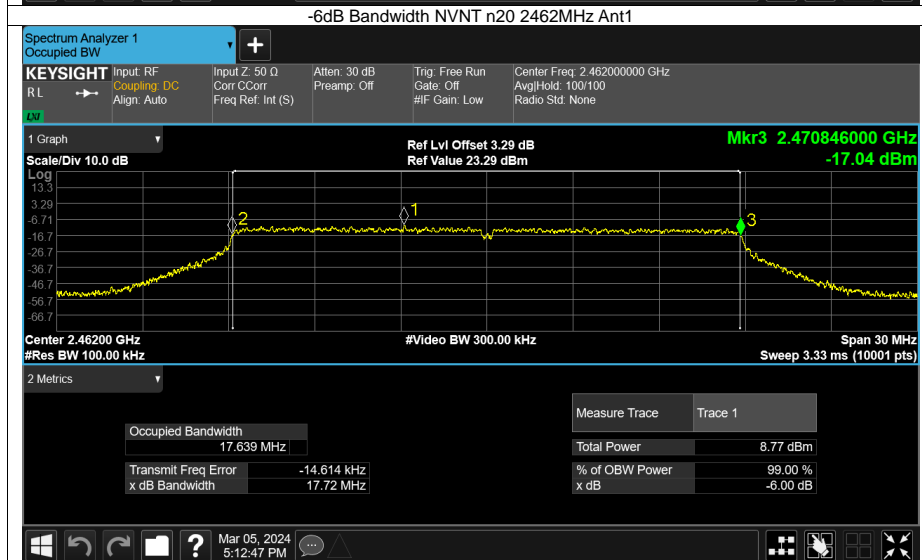
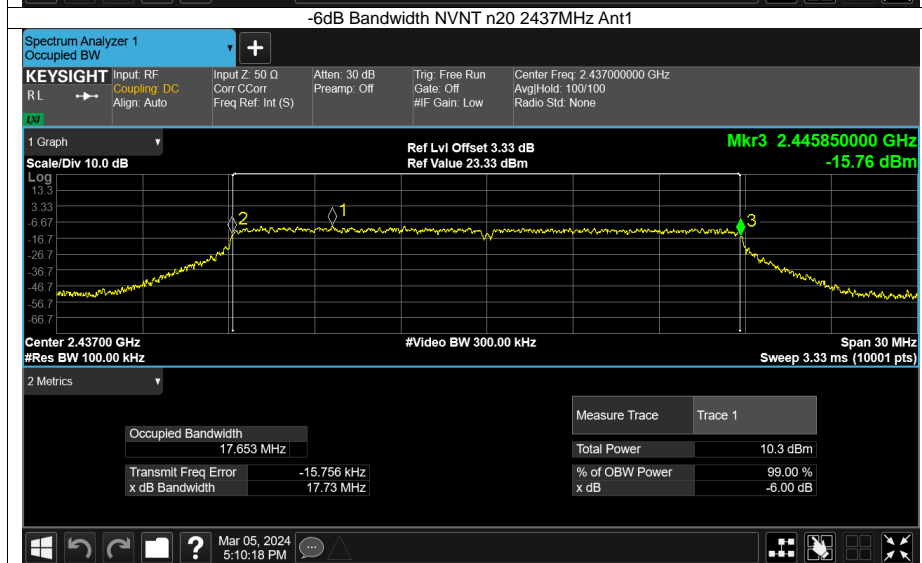
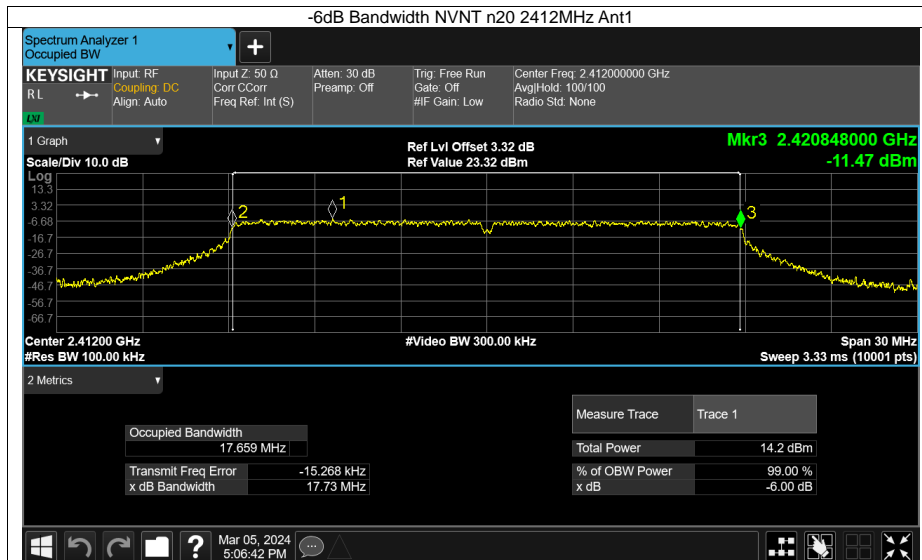


-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | b | 2412 | Ant1 | 9.034 | 0.5 | Pass |
| NVNT | b | 2437 | Ant1 | 9.066 | 0.5 | Pass |
| NVNT | b | 2462 | Ant1 | 9.057 | 0.5 | Pass |
| NVNT | g | 2412 | Ant1 | 16.534 | 0.5 | Pass |
| NVNT | g | 2437 | Ant1 | 16.536 | 0.5 | Pass |
| NVNT | g | 2462 | Ant1 | 16.532 | 0.5 | Pass |
| NVNT | n20 | 2412 | Ant1 | 17.727 | 0.5 | Pass |
| NVNT | n20 | 2437 | Ant1 | 17.732 | 0.5 | Pass |
| NVNT | n20 | 2462 | Ant1 | 17.721 | 0.5 | Pass |



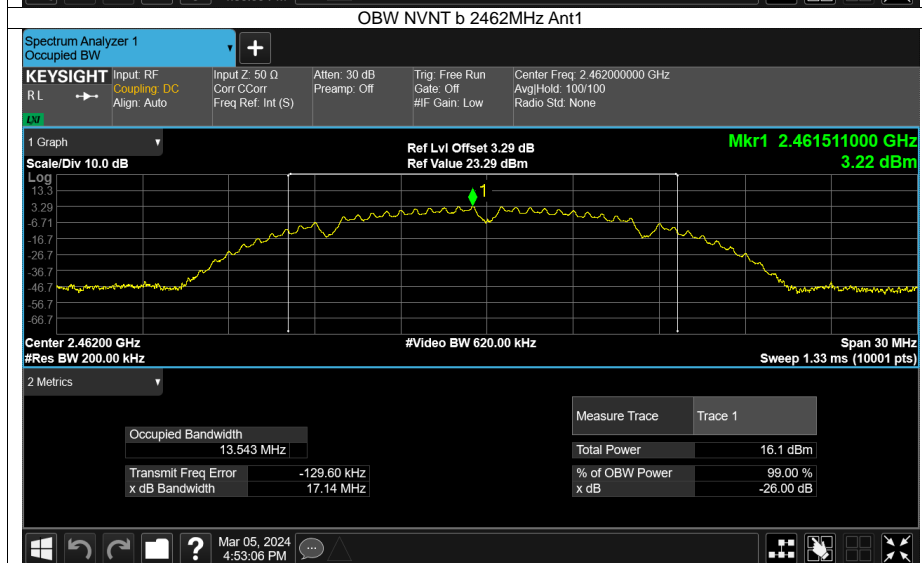
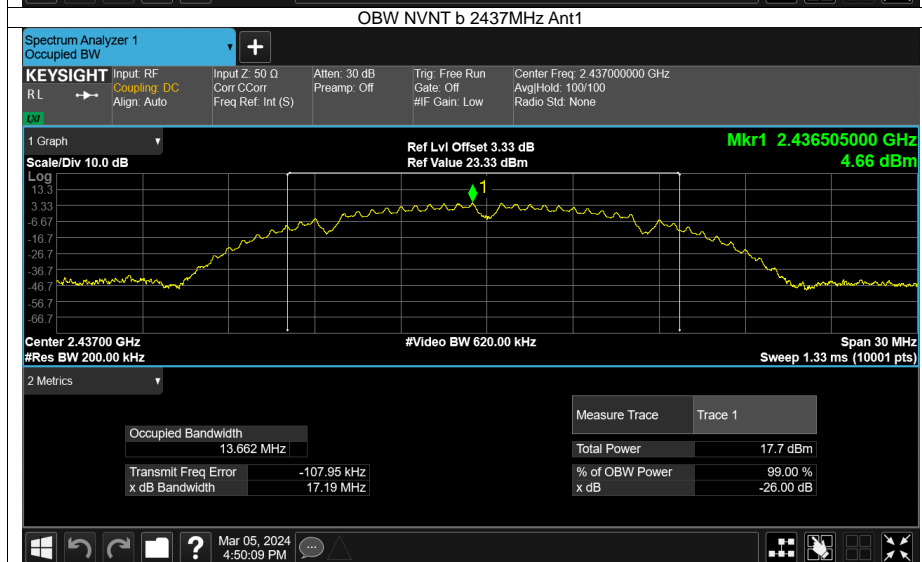


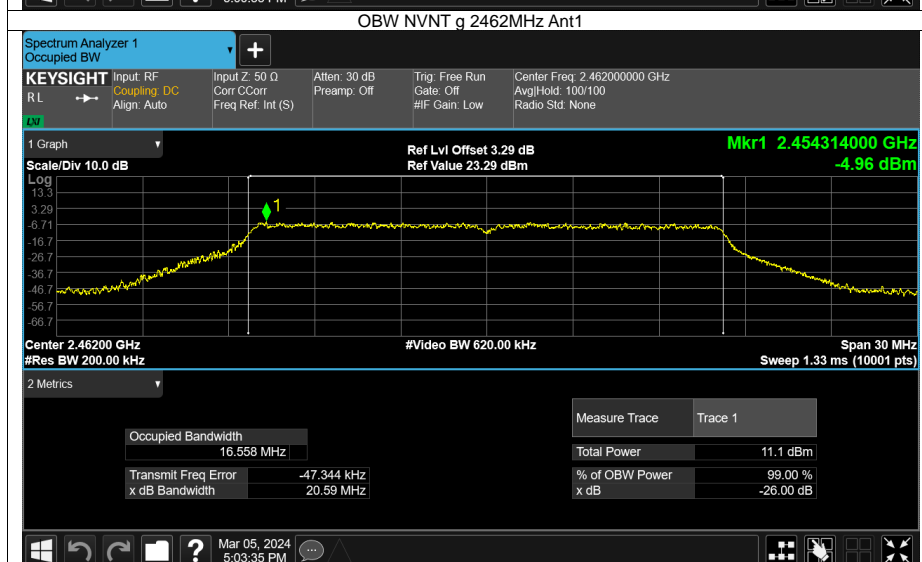
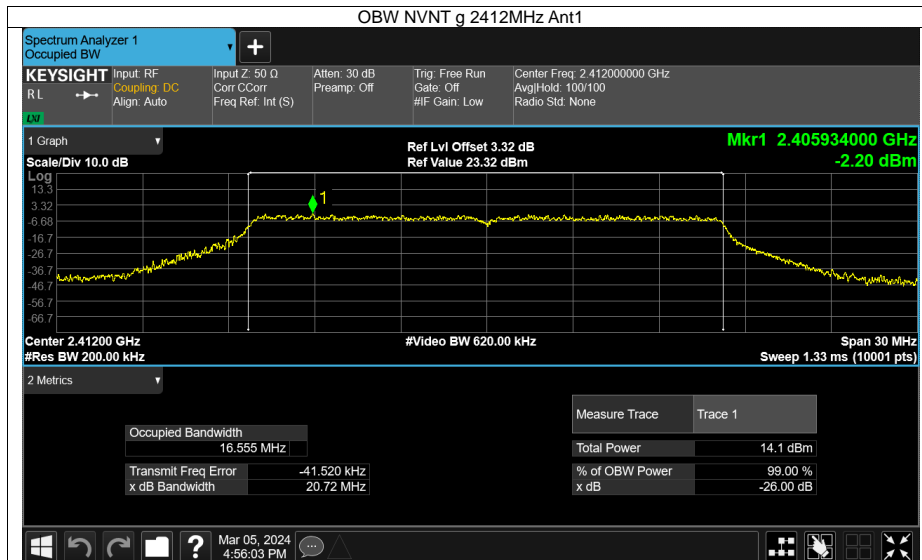


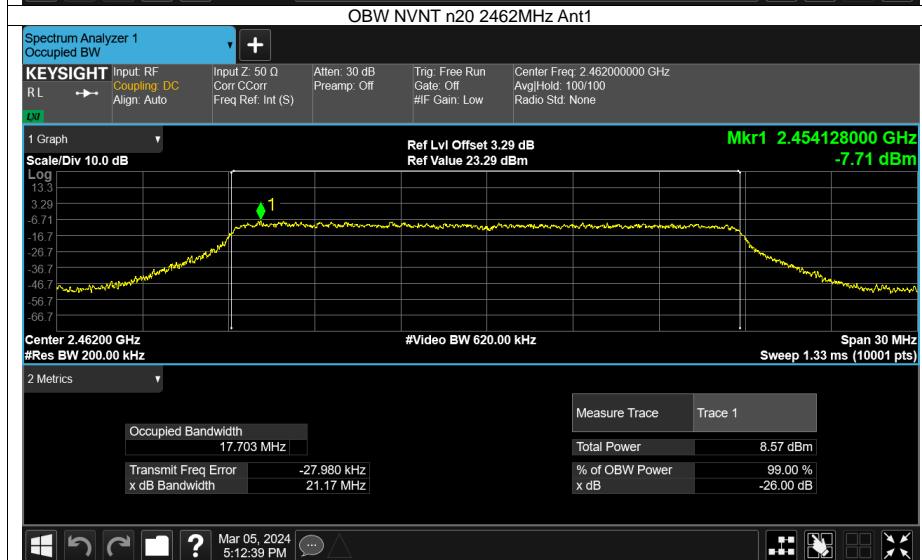
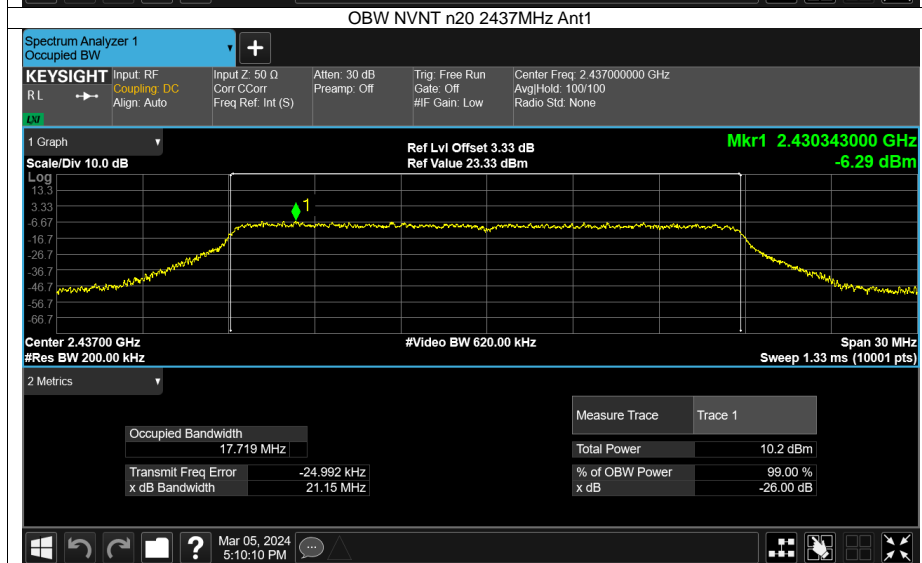
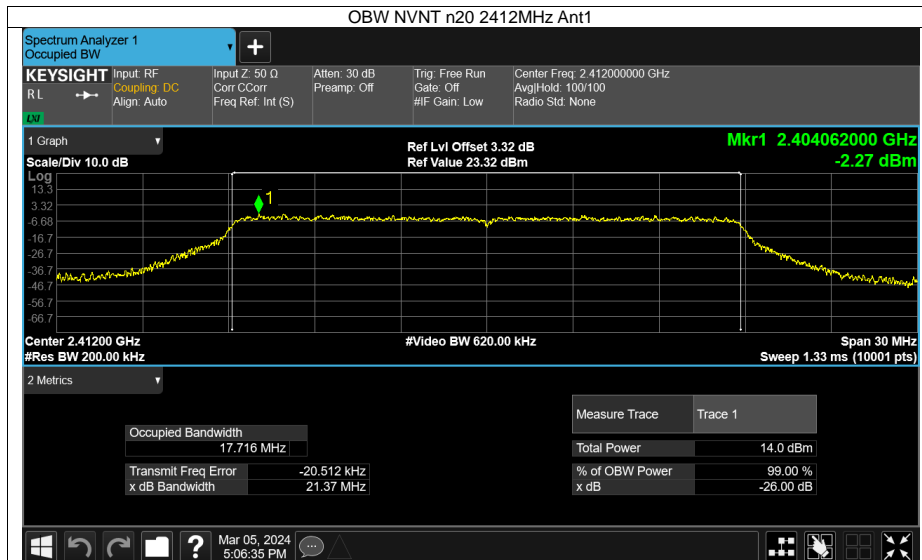


Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT | b | 2412 | Ant1 | 13.754 |
| NVNT | b | 2437 | Ant1 | 13.662 |
| NVNT | b | 2462 | Ant1 | 13.543 |
| NVNT | g | 2412 | Ant1 | 16.555 |
| NVNT | g | 2437 | Ant1 | 16.571 |
| NVNT | g | 2462 | Ant1 | 16.558 |
| NVNT | n20 | 2412 | Ant1 | 17.716 |
| NVNT | n20 | 2437 | Ant1 | 17.719 |
| NVNT | n20 | 2462 | Ant1 | 17.703 |



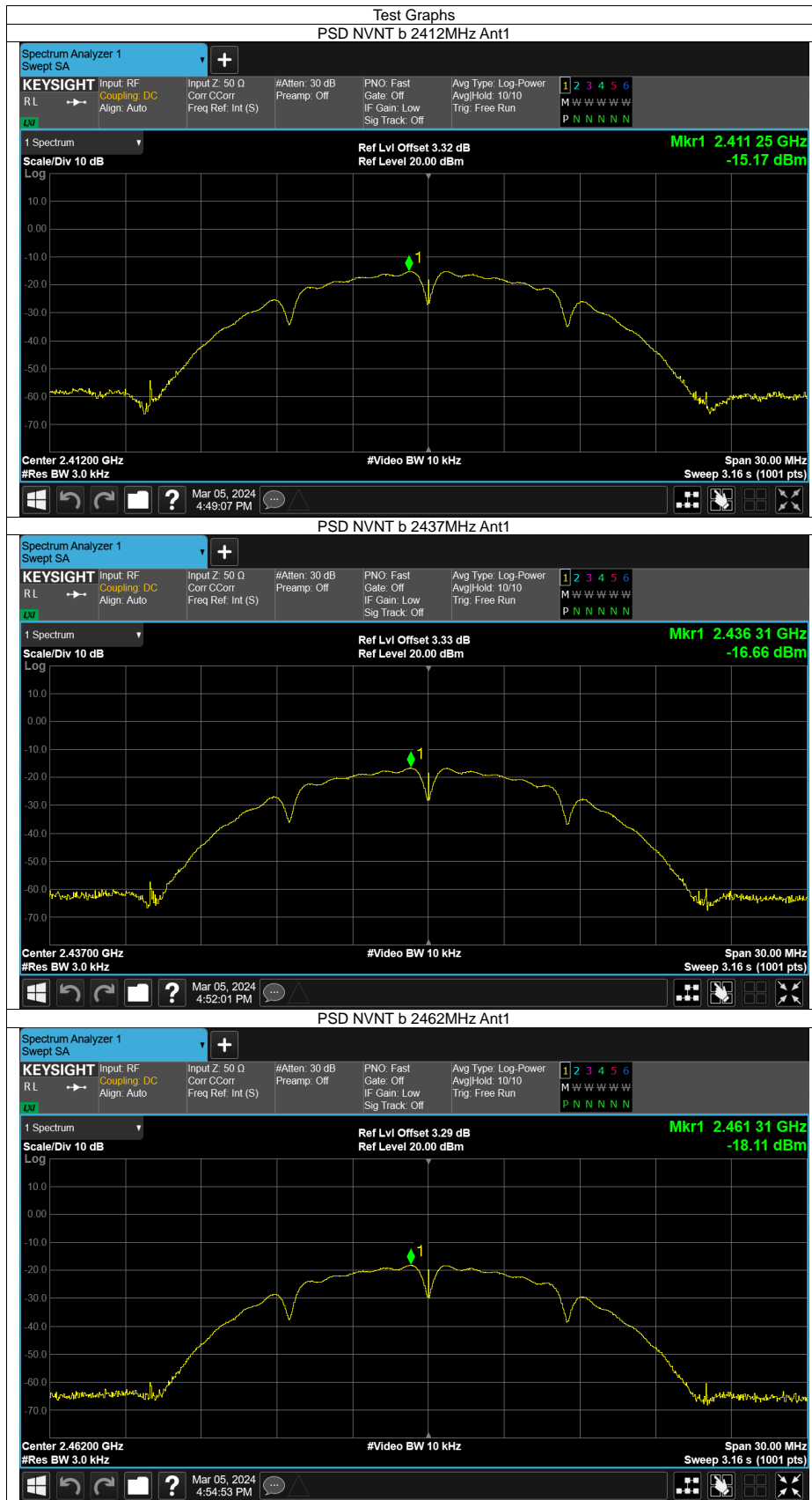


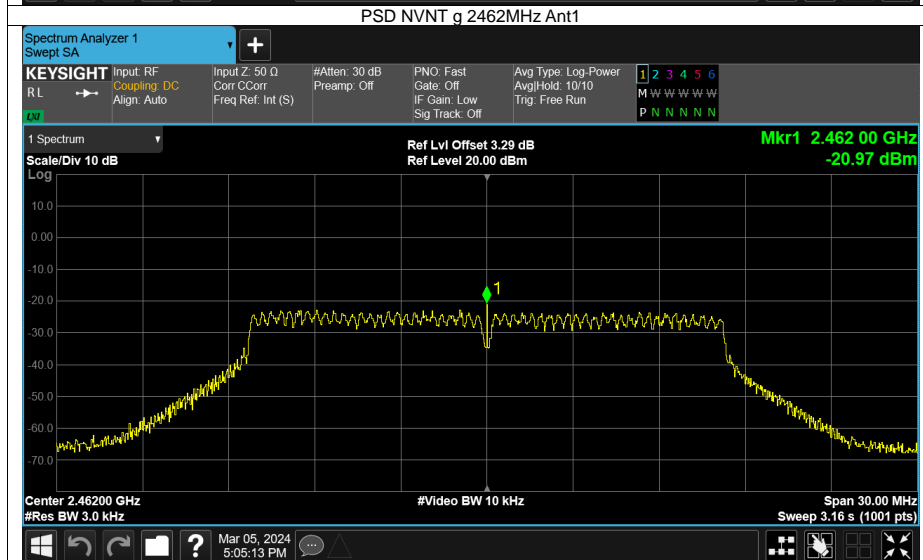
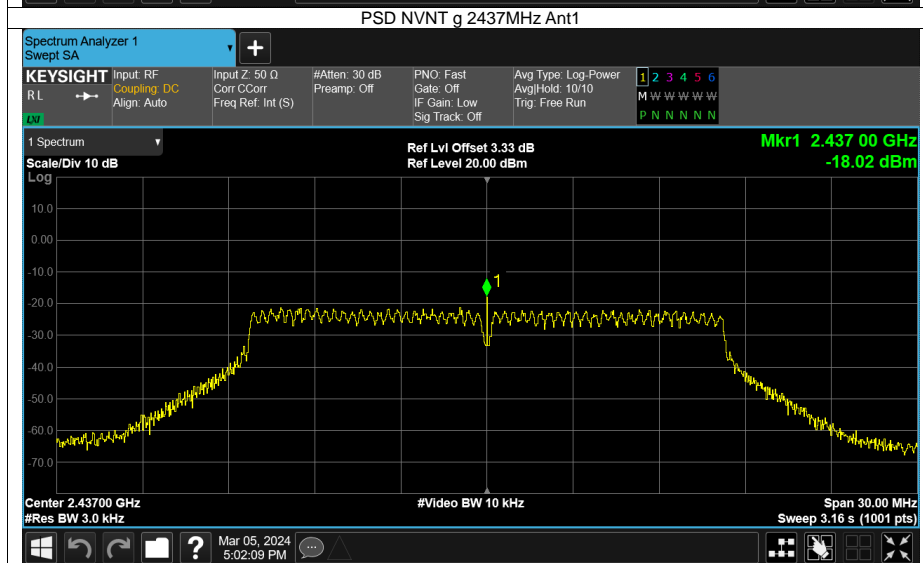
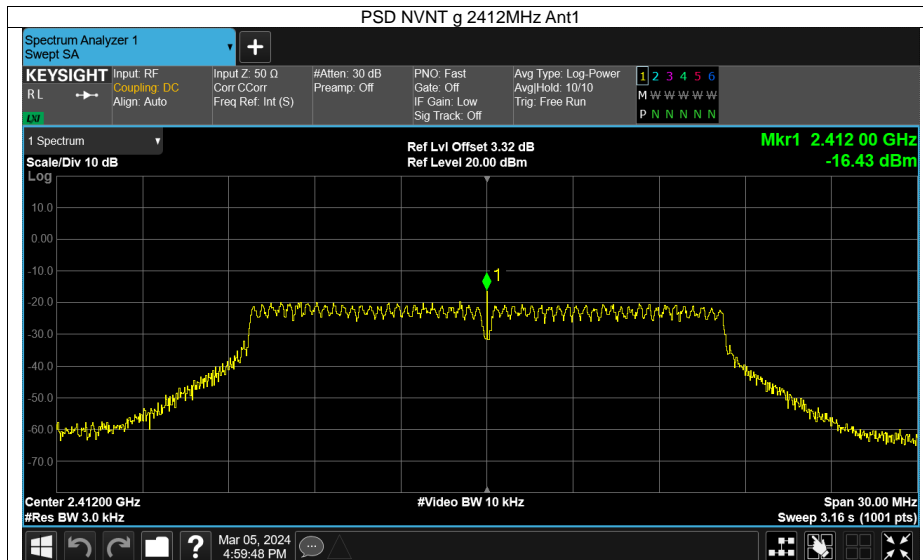


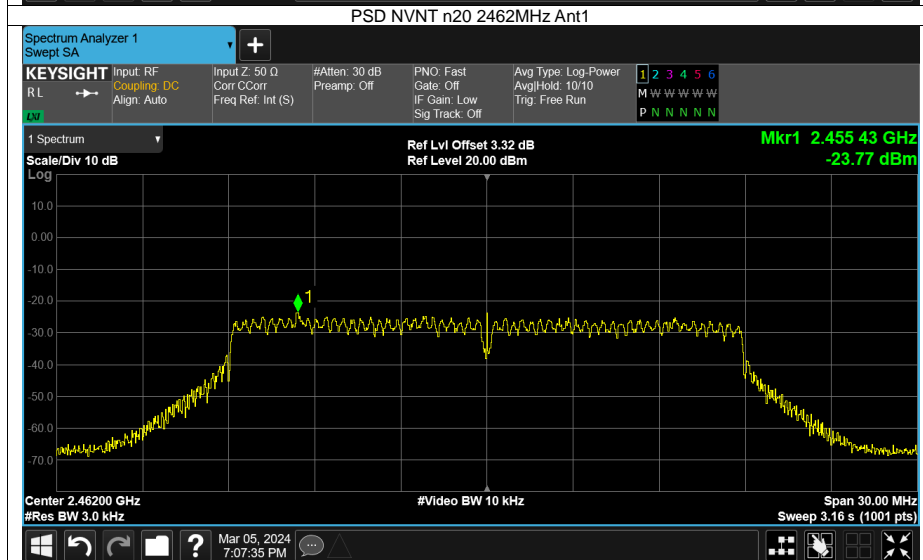
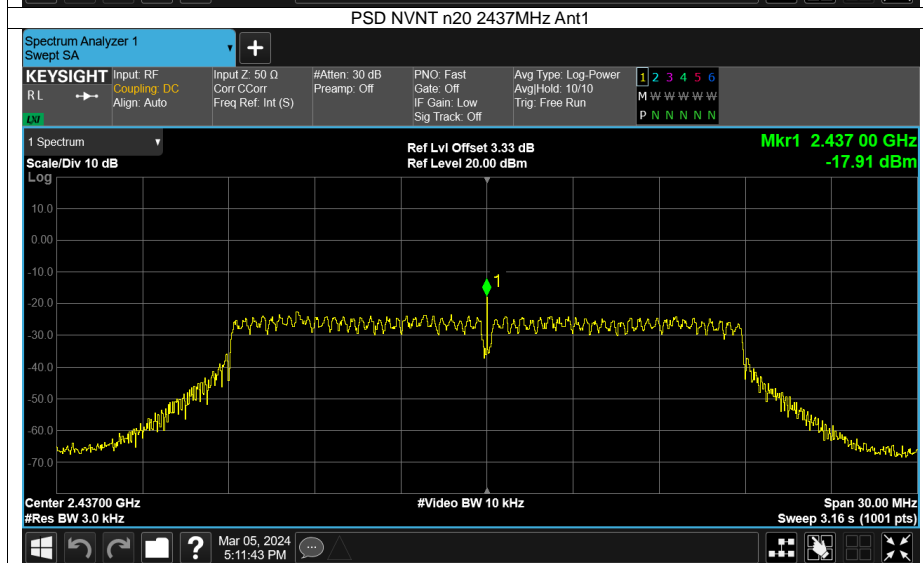
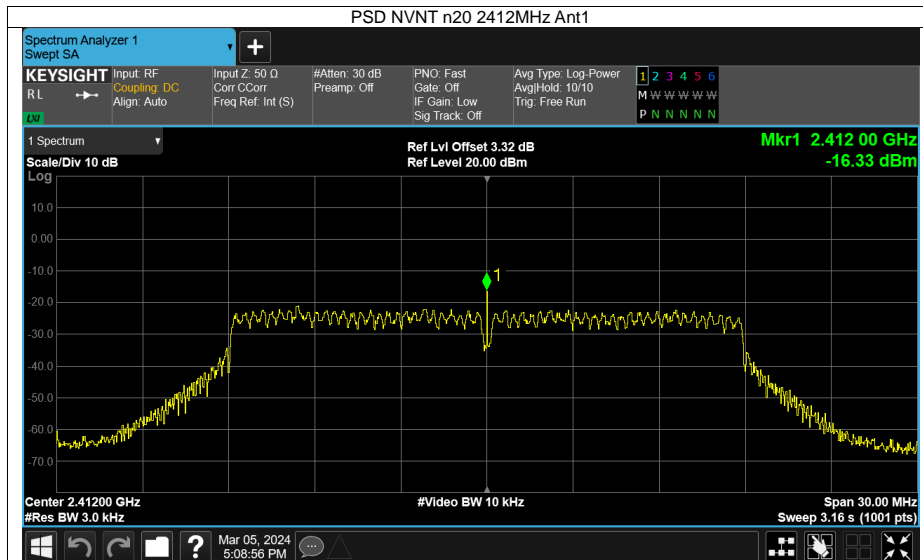


Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT | b | 2412 | Ant1 | -15.17 | 8 | Pass |
| NVNT | b | 2437 | Ant1 | -16.66 | 8 | Pass |
| NVNT | b | 2462 | Ant1 | -18.11 | 8 | Pass |
| NVNT | g | 2412 | Ant1 | -16.43 | 8 | Pass |
| NVNT | g | 2437 | Ant1 | -18.02 | 8 | Pass |
| NVNT | g | 2462 | Ant1 | -20.97 | 8 | Pass |
| NVNT | n20 | 2412 | Ant1 | -16.33 | 8 | Pass |
| NVNT | n20 | 2437 | Ant1 | -17.91 | 8 | Pass |
| NVNT | n20 | 2462 | Ant1 | -23.77 | 8 | Pass |

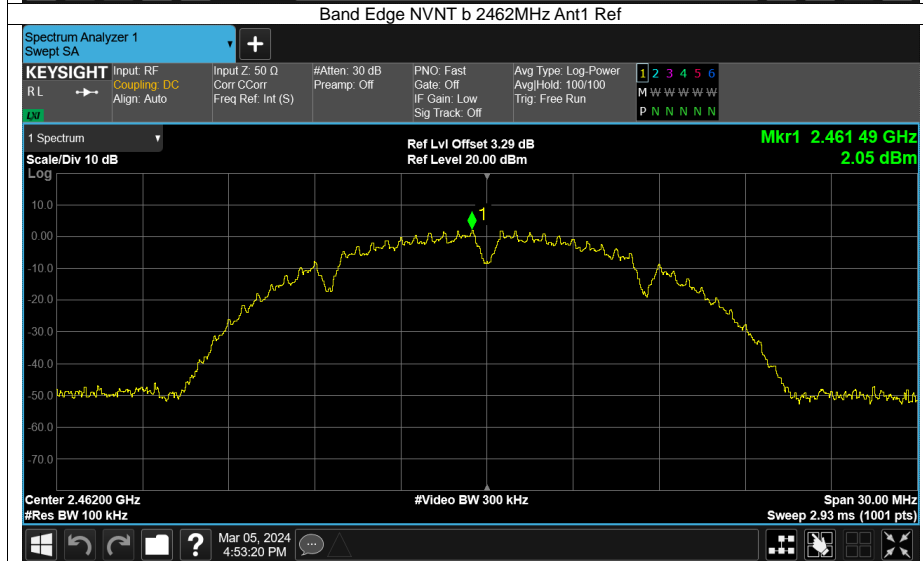
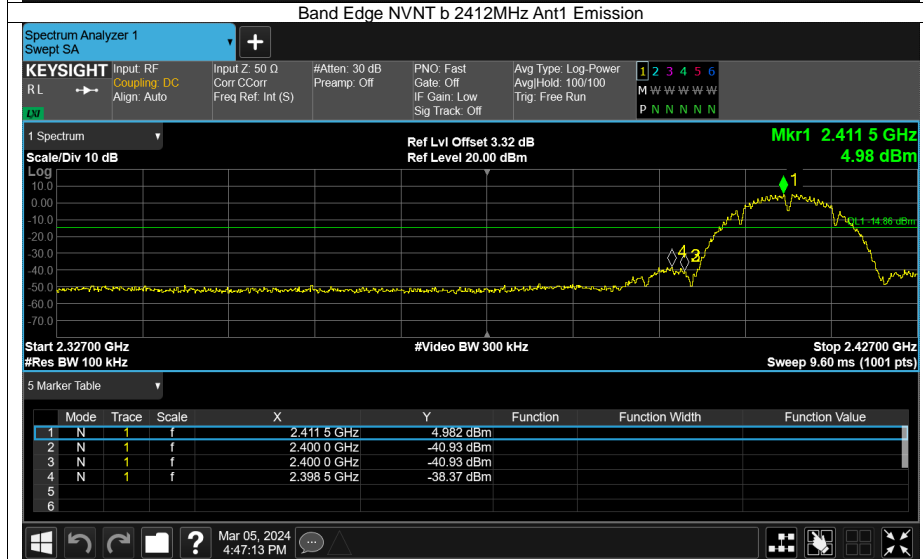
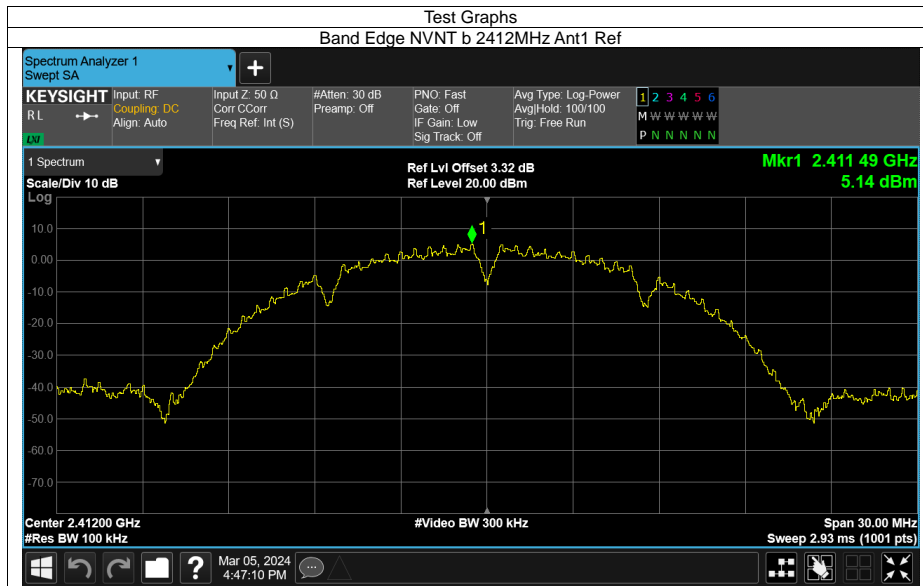


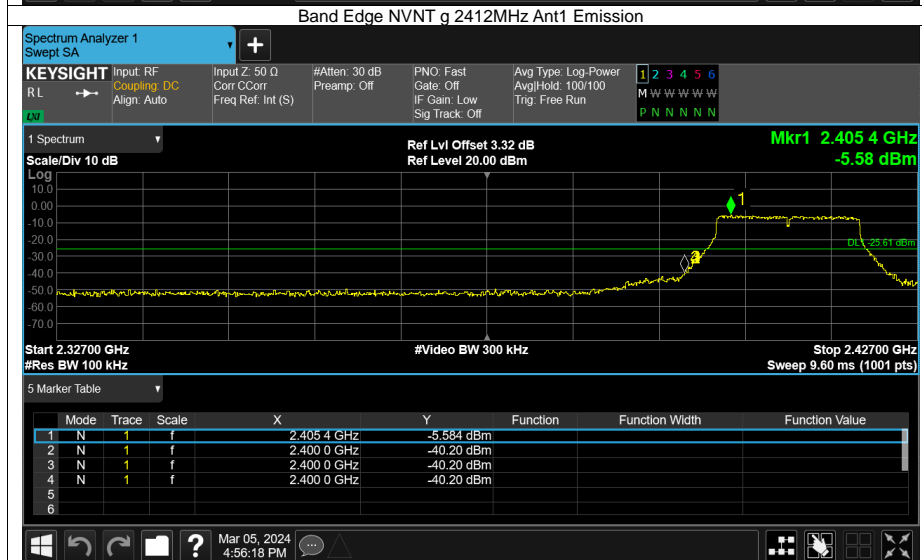
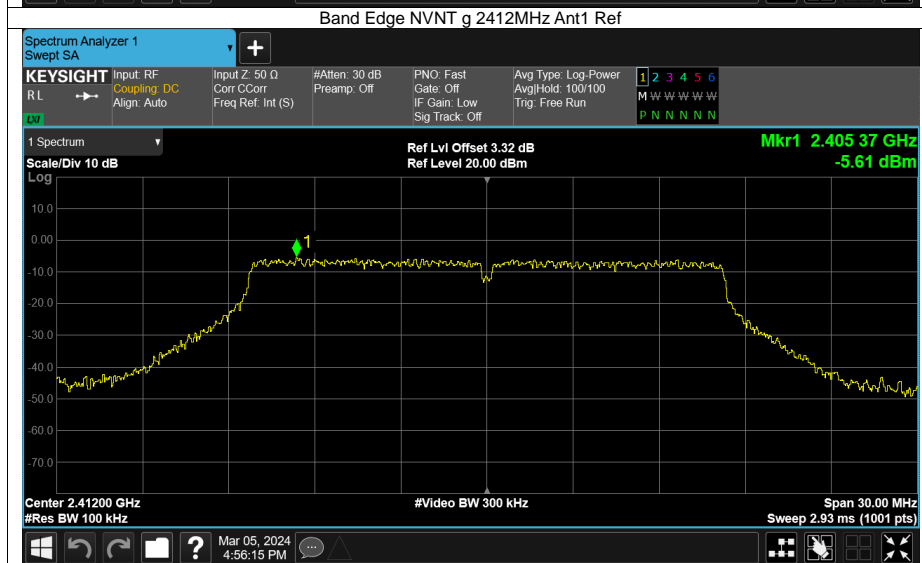
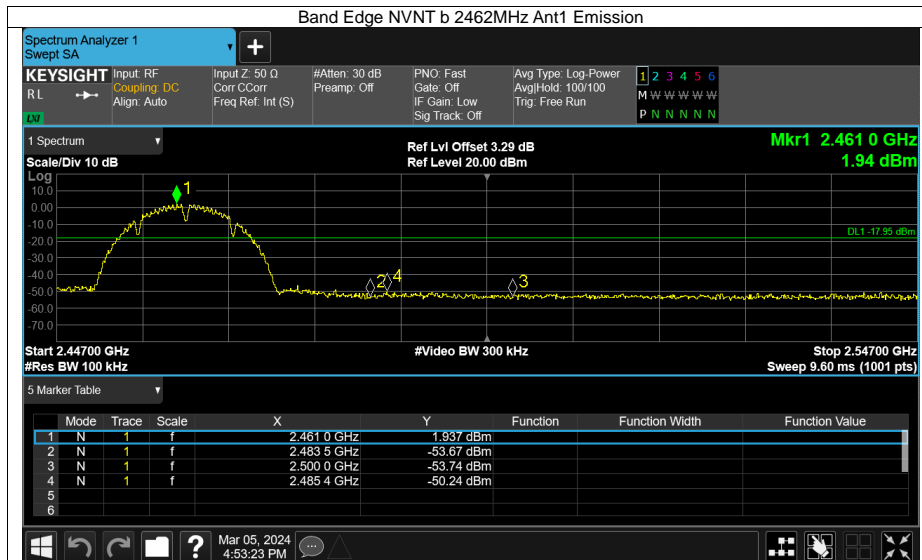


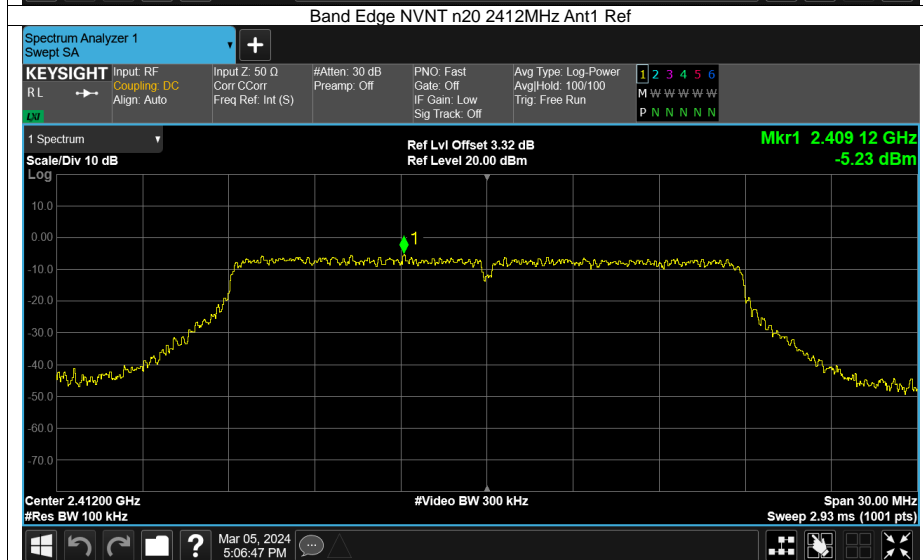
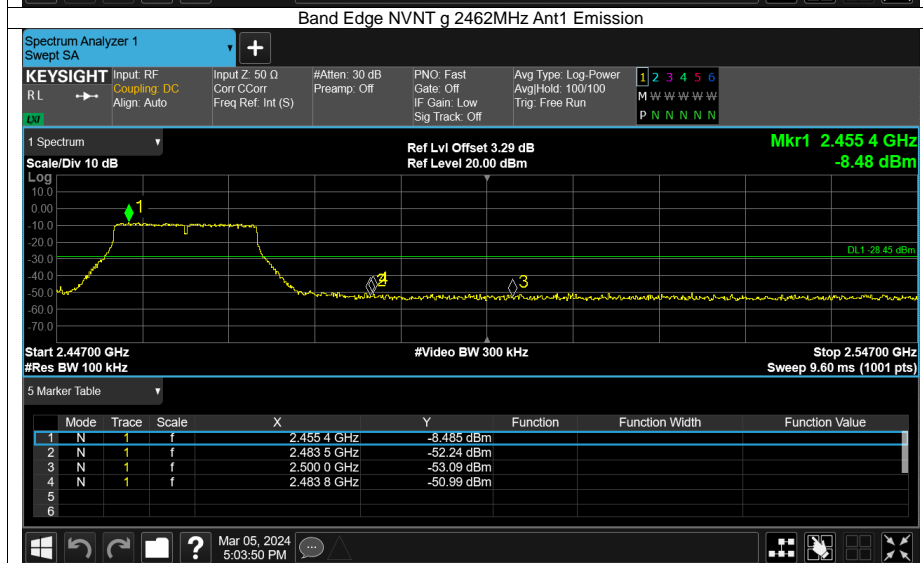


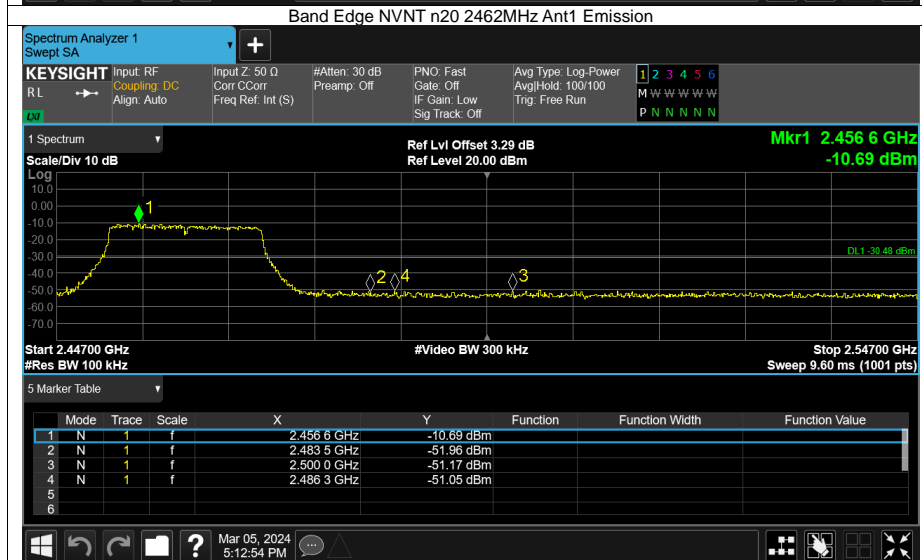
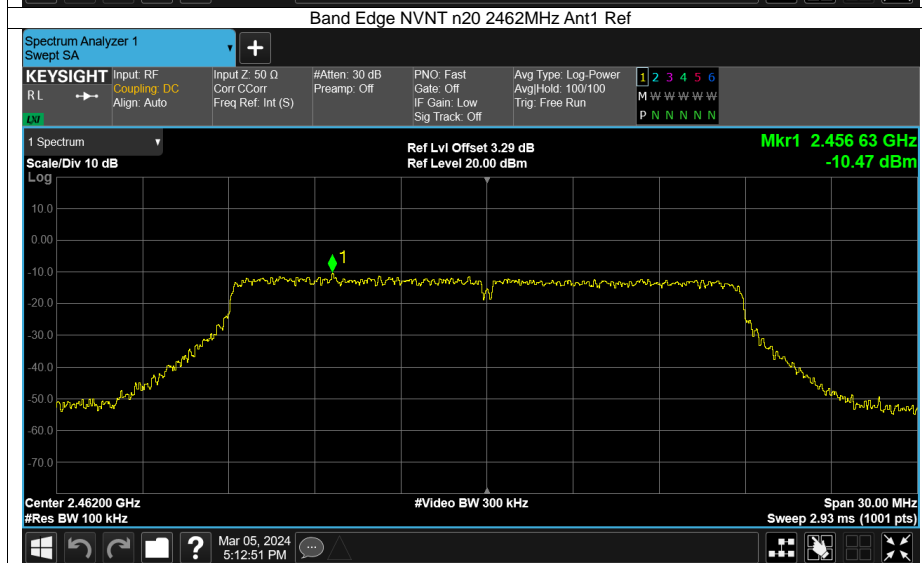
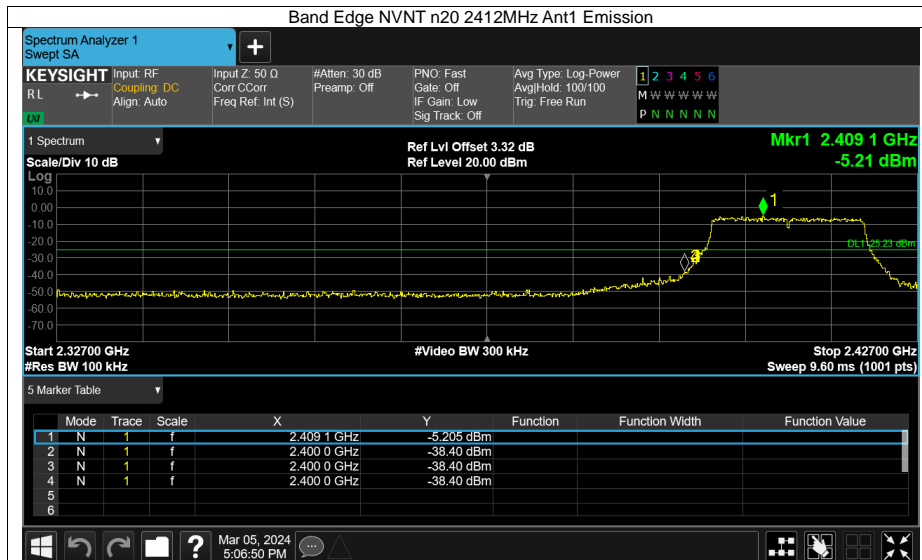
**Band Edge**

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -43.5 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -52.28 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -34.59 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -42.54 | -20 | Pass |
| NVNT | n20 | 2412 | Ant1 | -33.16 | -20 | Pass |
| NVNT | n20 | 2462 | Ant1 | -40.58 | -20 | Pass |





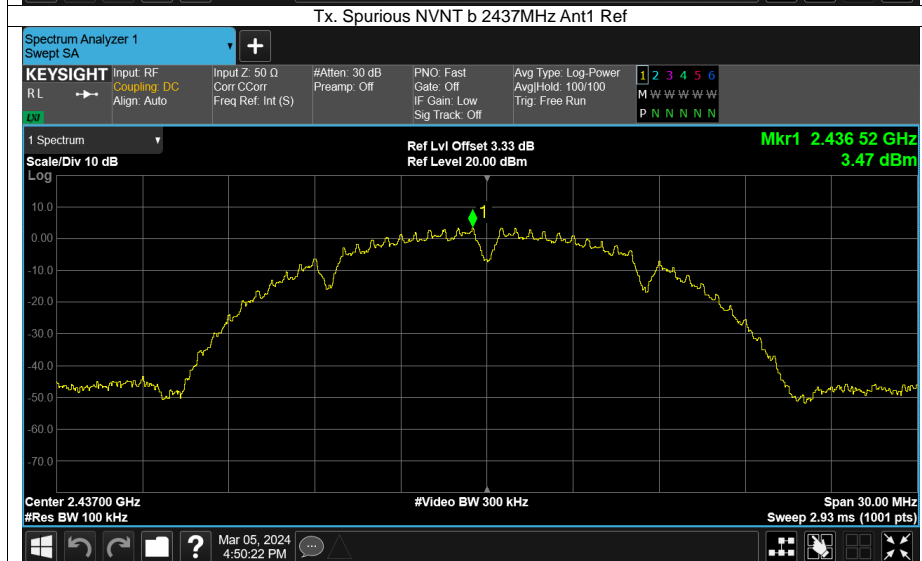
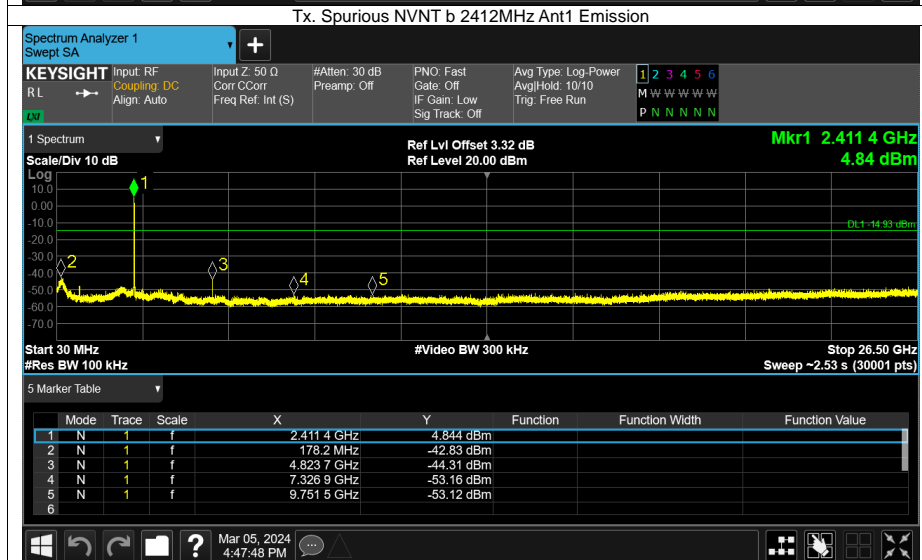
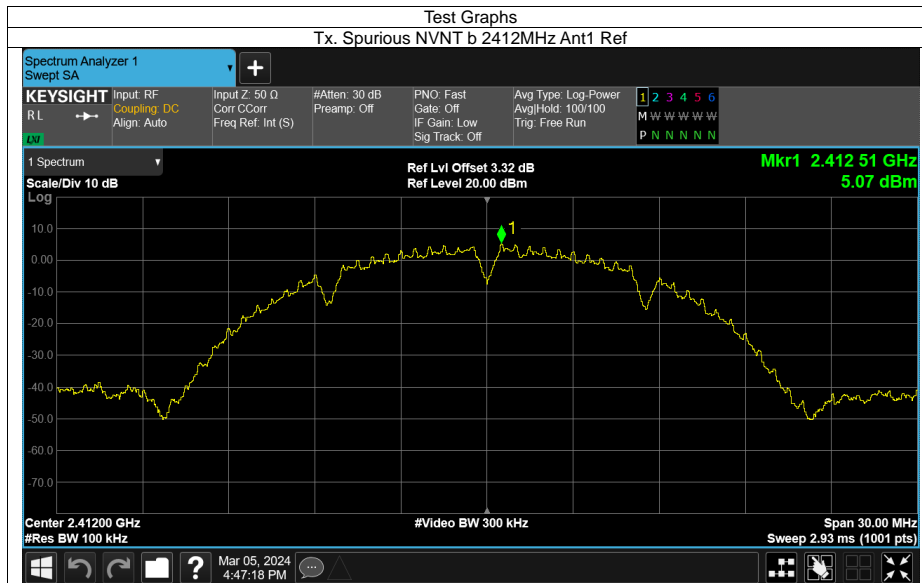


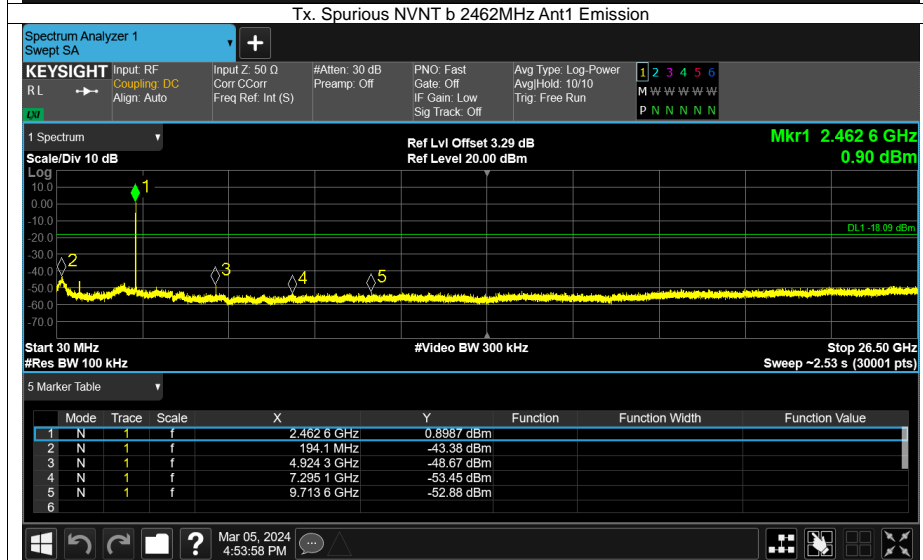
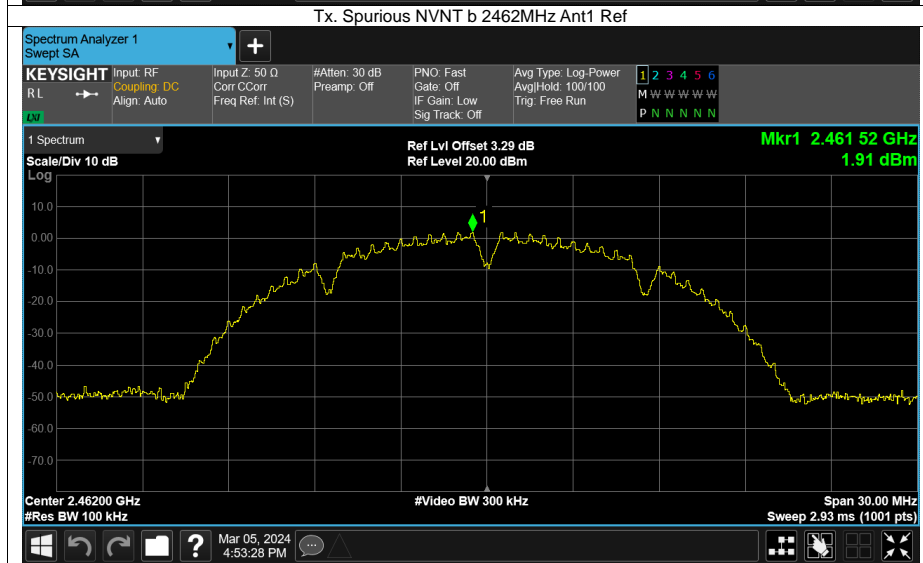
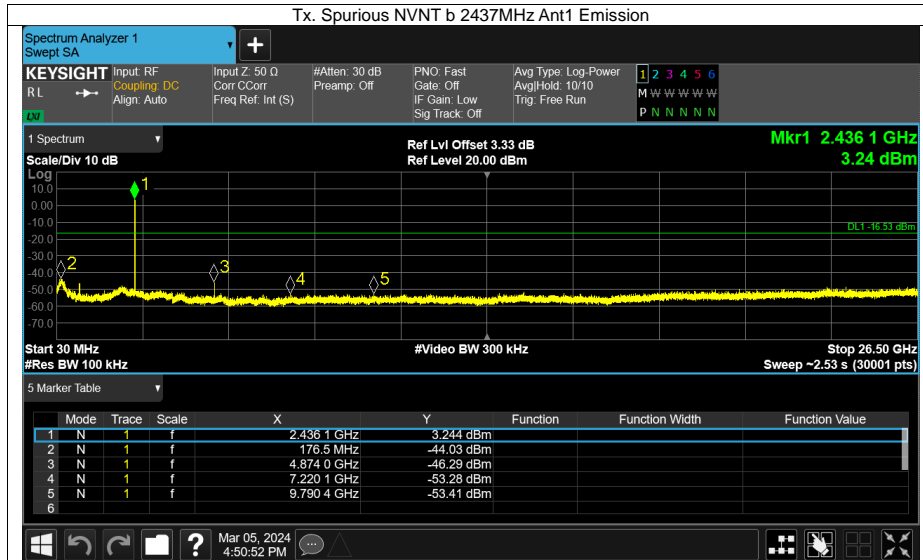


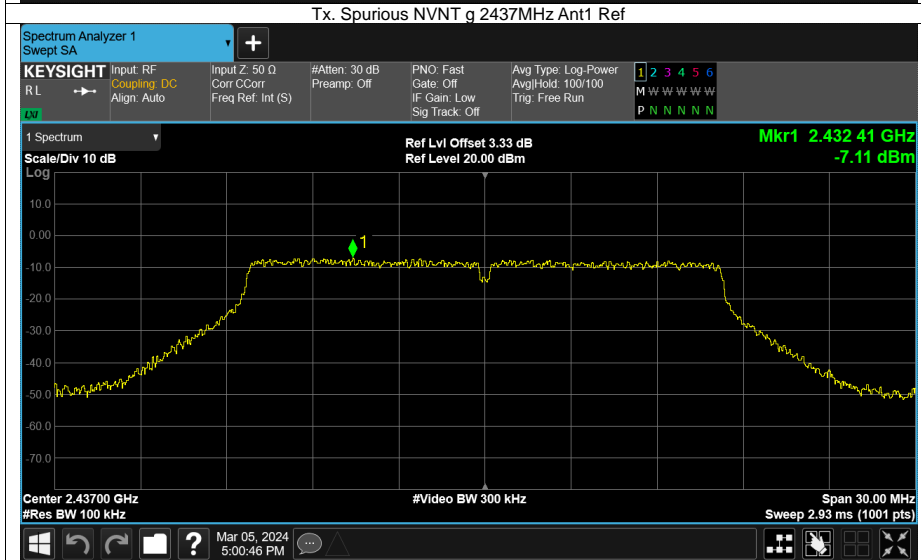
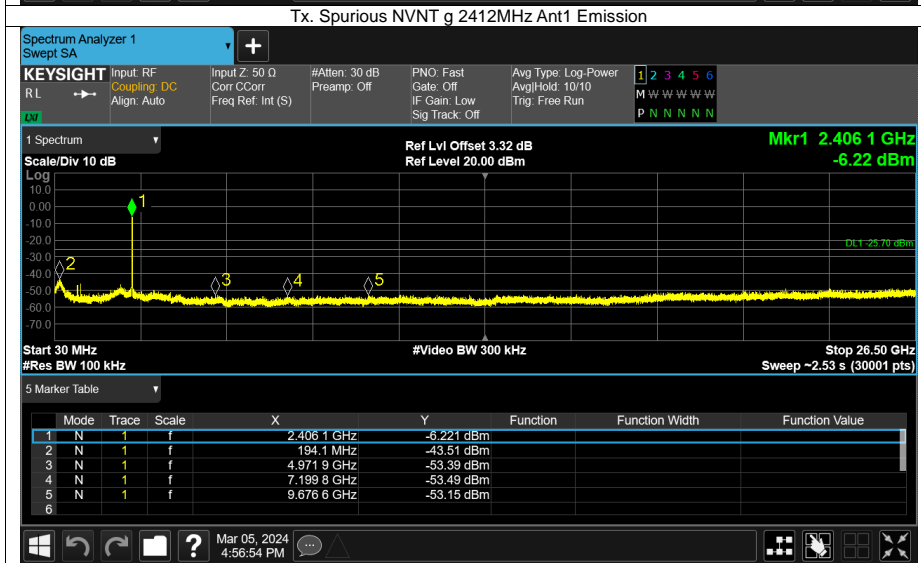
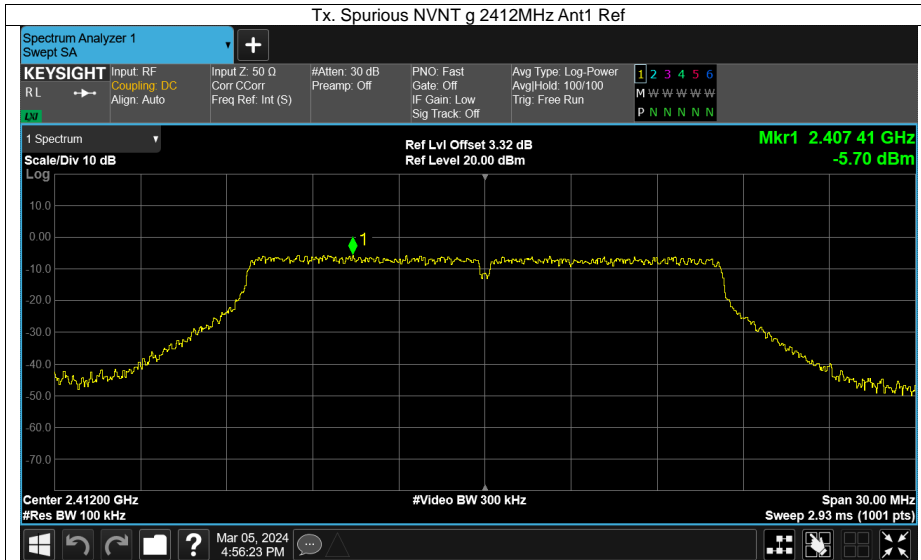


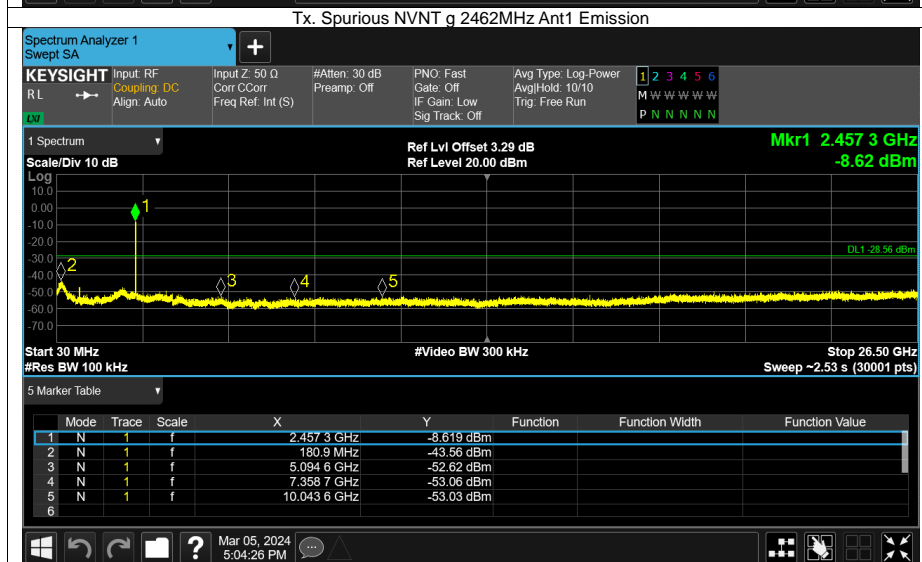
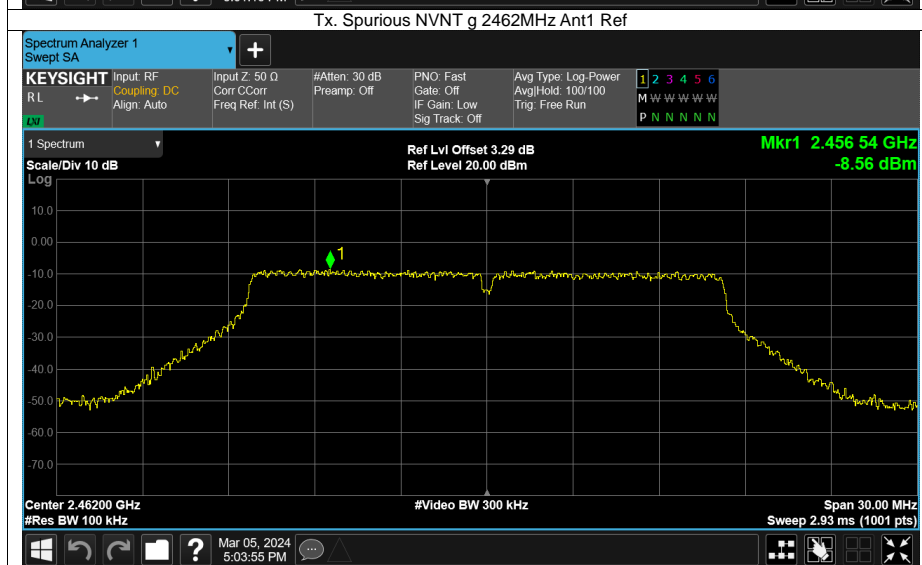
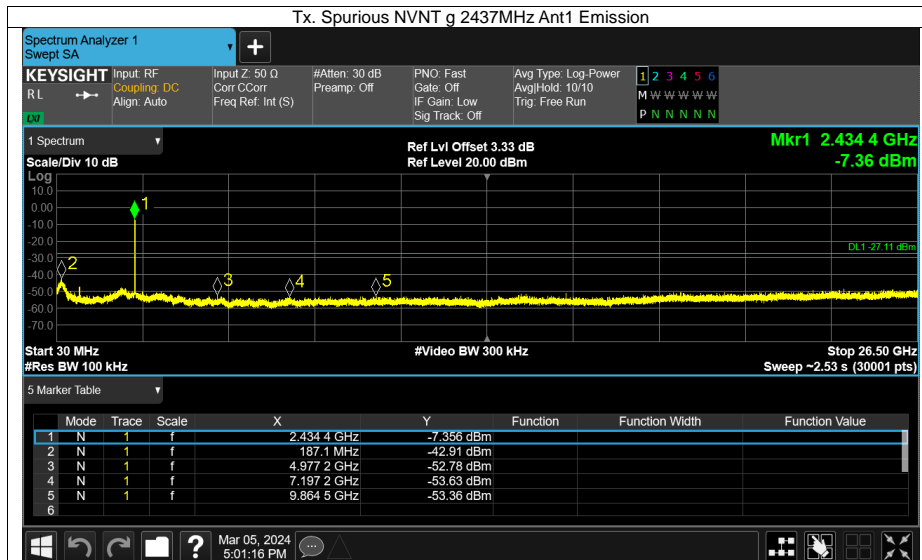
Conducted RF Spurious Emission

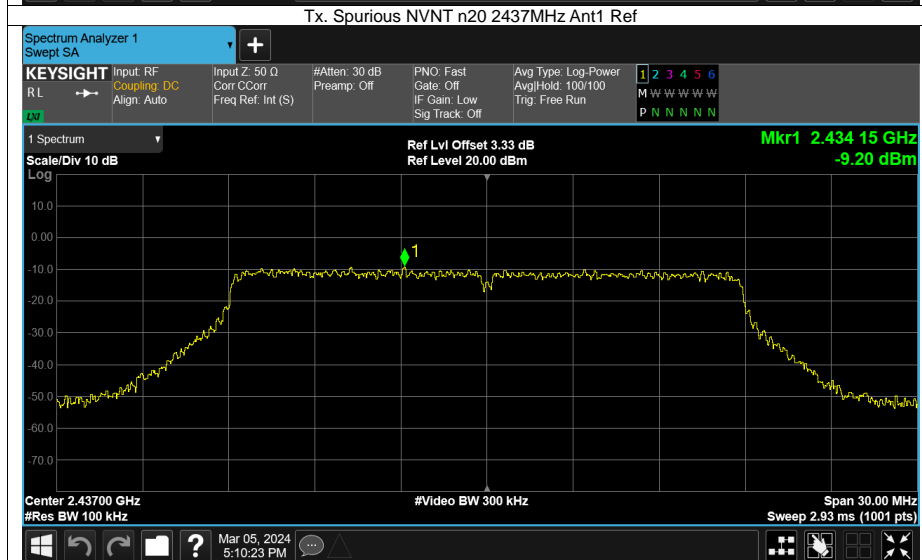
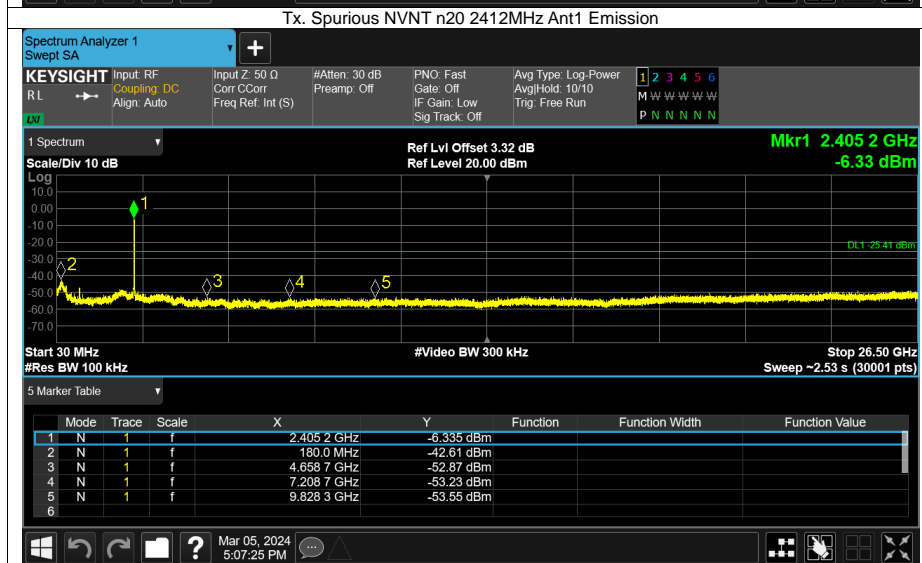
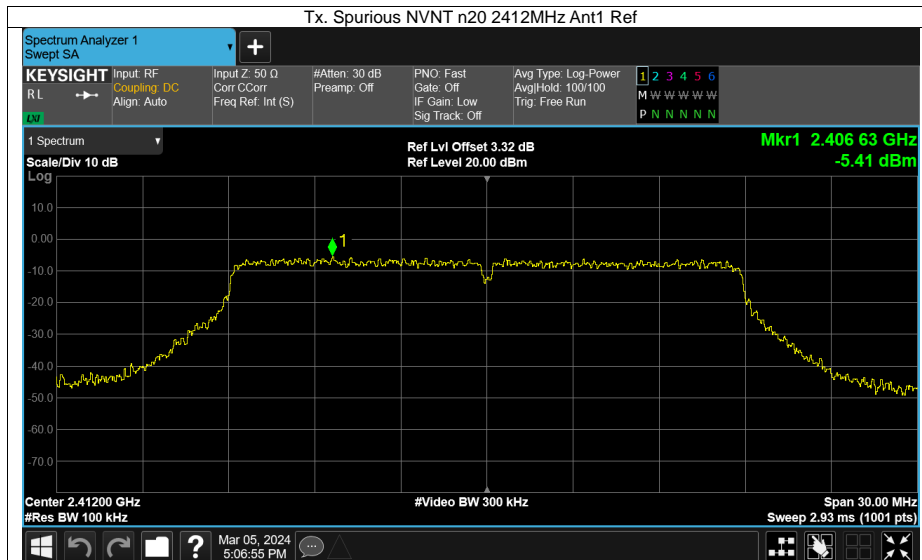
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -47.89 | -20 | Pass |
| NVNT | b | 2437 | Ant1 | -47.5 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -45.29 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -37.8 | -20 | Pass |
| NVNT | g | 2437 | Ant1 | -35.8 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -34.99 | -20 | Pass |
| NVNT | n20 | 2412 | Ant1 | -37.19 | -20 | Pass |
| NVNT | n20 | 2437 | Ant1 | -34.63 | -20 | Pass |
| NVNT | n20 | 2462 | Ant1 | -32.71 | -20 | Pass |

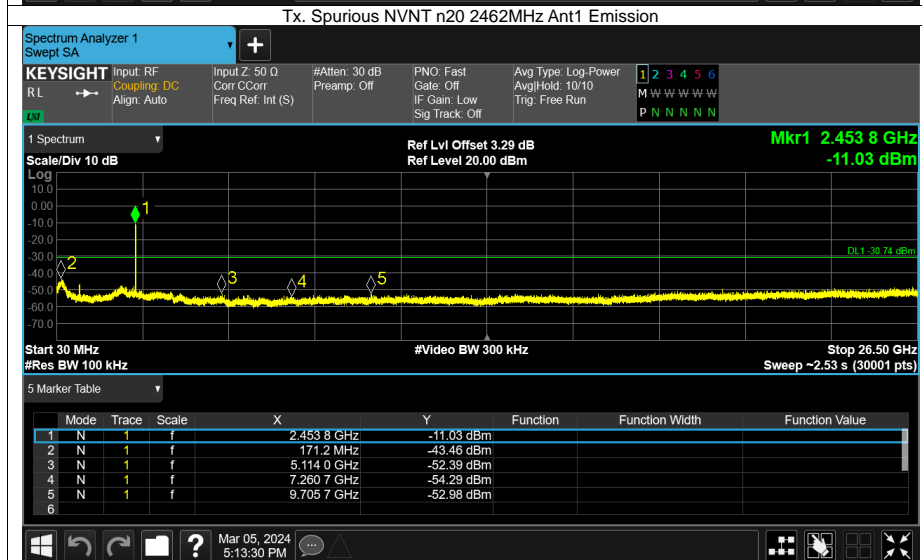
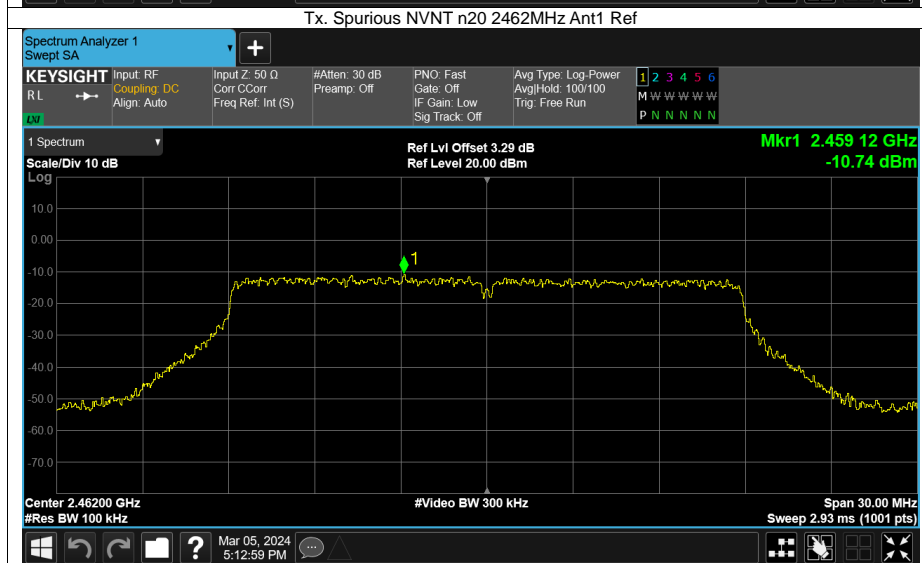
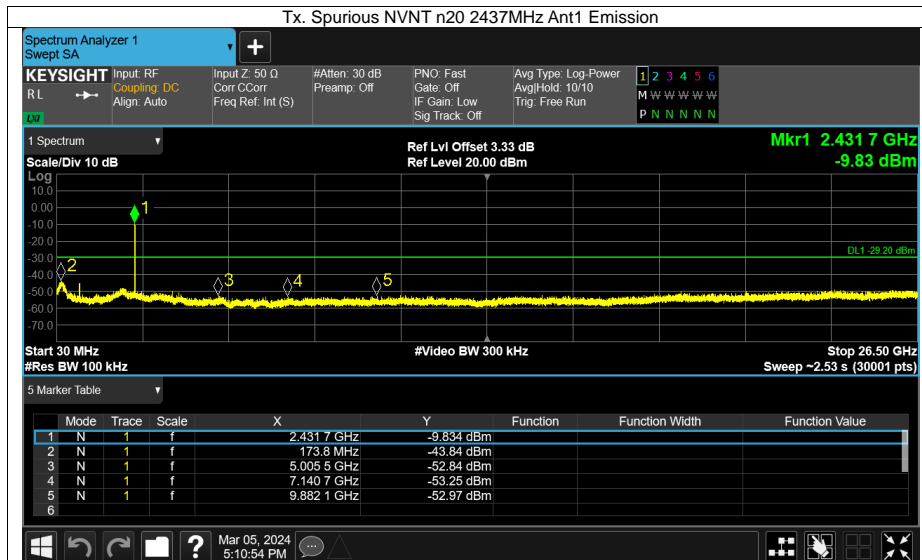












※※※※END OF THE REPORT※※※※