# FCC PART 15C
# Measurement and Test Report
# For
# Shenzhen Yidian International Digital Co., LTD

## FCC ID:2BCLC-X10

| | |
|---|---|
| **FCC Rule(s)/Methods:** | FCC CFR Title 47 Part 15 Subpart C Section 15.247<br>ANSI C63.10:2013 |
| **Product Description:** | WiFi camera |
| **Trademark** | / |
| **Model/Type reference.:** | X10, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20. |
| **Report No.:** | BSL2305318275034F |
| **Date of receipt of test item :** | Aug. 10, 2023 |
| **Date of sampling :** | Aug. 10, 2023 |
| **Tested Date:** | Aug. 10, 2023 to Aug. 18, 2023 |
| **Issued Date:** | Aug. 18, 2023 |
| **Tested By:** | Cindy Zheng/ Engineer |
| **Reviewed By:** | Haley Wen/ EMC Manager |
| **Approved & Authorized By:** | Mike Mo / PSQ Manager |

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## 1. VERSION

| ReportNo. | Version | Description | Approved |
|---|---|---|---|
| BSL2305318275034F | Rev.01 | Initial issue of report | Aug. 18, 2023 |
| | | | |
| | | | |

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C<br>KDB 558074 D01, KDB 662911 D01 | | | |
|---|---|---|---|
| Standard Section | Test Item | Result | Remark |
| FCC part 15.203/15.247 (c) | Antenna requirement | PASS | |
| FCC part 15.207 | AC Power Line Conducted Emission | PASS | |
| FCC part 15.247 (b)(3) | Conducted Peak Output Power | PASS | |
| FCC part 15.247 (a)(2) | Channel Bandwidth& 99% OCB | PASS | |
| FCC part 15.247 (e) | Power Spectral Density | PASS | |
| FCC part 15.247(d) | Band Edge | PASS | |
| FCC part 15.247(d) | Conducted Spurious Emission | PASS | |
| FCC part 15.205/15.209 | Spurious Emission | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

## 2.1 TEST FACILITY

BSL TESTING CO., LTD
Add. : 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

FCC Test Firm Registration Number: 562200
Designation Number: CN1338
IC Registered No.: 11093A
Designation Number: CN0019

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended 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 | 3m camber Radiated spurious emission(9KHz-30MHz) | U=4.5dB |
| 2 | 3m camber Radiated spurious emission(30MHz-1GHz) | U=4.8dB |
| 3 | 3m chamber Radiated spurious emission(1GHz-6GHz) | U=4.9dB |
| 4 | 3m chamber Radiated spurious emission(6GHz-40GHz) | U=5.0dB |
| 5 | Conducted disturbance | U=3.2dB |
| 6 | RF Band Edge | U=1.68dB |
| 7 | RF power conducted | U=1.86dB |
| 8 | RF conducted Spurious Emission | U=2.2dB |
| 9 | RF Occupied Bandwidth | U=1.8dB |
| 10 | RF Power Spectral Density | U=1.75dB |
| 11 | humidity uncertainty | U=5.3% |
| 12 | Temperature uncertainty | U=0.59℃ |

## 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Applicant: | Shenzhen Yidian International Digital Co., LTD |
| Address of applicant: | Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen China |
| Manufacturer: | Shenzhen Yidian International Digital Co., LTD |
| Address of manufacturer: | Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen China |
| Product Name: | WiFi camera |
| Model No.: | X10, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20. |
| Model Different.: | Only the model names are different. |
| Serial No.: | N/A |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Sample(s) Status: | Engineer sample |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20):11 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum(DSSS)<br>802.11g/802.11n(H20)<br>Orthogonal Frequency Division Multiplexing(OFDM) |
| Antenna Type: | Built-in antenna |
| Antenna gain: | 2.73dBi |
| Power supply: | Input: DC 3.7V From battery<br>Adapter:<br>Input：AC100-240V 50/60Hz |
| Note： | |

| **Operation Frequency each of channel** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | |

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:

| **Test channel** | **Frequency (MHz)** | |
|---|---|---|
| | 802.11b/802.11g/802.11n(HT20) | / |
| Lowest channel | 2412MHz | / |
| Middle channel | 2437MHz | / |
| Highest channel | 2462MHz | / |

## 3.2 DESCRIPTION OF TEST MODES

| | |
|---|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode |
| Remark: During the test,the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. | |

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | 802.11b | 802.11g | 802.11n(HT20) | / |
|---|---|---|---|---|
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | / |

| | |
|---|---|
| Test Software | TROLiNIK |
| Power level setup | <13dBm |

## 3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

AC Line — EUT

Radiated Emission

AC Line — EUT

Conducted Spurious

AC Line — EUT

## 3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| / | ADAPTER | / | ADS-5001000C | / | DC 5V/1A |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

## 3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|
| 1 | Communication Tester | Rohde & Schwarz | CMW500 | 100358 Firewaware: 4.43 SP4 | Oct. 22, 2022 | Oct. 21, 2023 |
| 2 | Spectrum Analyzer | KEYSIGHT | 9020A | MY55370835 | Oct. 22, 2022 | Oct. 21, 2023 |
| 3 | Test Receiver | R&S | ESCI7 | US47140102 Firewaware: 4.42 SP3 | Oct. 22, 2022 | Oct. 21, 2023 |
| 4 | Signal Generator | HP | 83630B | 3844A01028 | Oct. 22, 2022 | Oct. 21, 2023 |
| 5 | Signal Generator | IFR | 2023A | 202307/242 | Oct. 22, 2022 | Oct. 21, 2023 |
| 6 | Amplifier | Agilent | 8449B | 4035A00116 | Oct. 22, 2022 | Oct. 21, 2023 |
| 7 | Amplifier | HP | 8447E | 2945A02770 | Oct. 22, 2022 | Oct. 21, 2023 |
| 8 | Broadband Antenna | SCHAFFNER | 2774 | 2774 | Feb.28,2022 | Feb.27,2025 |
| 9 | Bilog Antenna | Schwarzbeck | VULB9168 | N/A | Feb.28,2022 | Feb.27,2025 |
| 10 | Horn Antenna | R&S | HF906 | 100253 | Feb.28,2022 | Feb.27,2025 |
| 11 | Horn Antenna | Schwarzbeck | BBHA9170 | 00814 | Feb.28,2022 | Feb.27,2025 |
| 12 | Horn Antenna | EM | EM-6961 | 6462 | Feb.28,2022 | Feb.27,2025 |
| 13 | 3m Semi-Anechoic Chamber | Chengyu Electron | 9 (L)*6 (W)* 6 (H) | BSL086 | Feb.28,2022 | Feb.27,2025 |
| 14 | Loop Antenna | ZHINAN | ZN30900C | 20073 | Feb.28,2022 | Feb.27,2025 |
| 15 | power meter | DARE | RPR3006W | 15I00041SNO0 | Feb.28,2022 | Feb.27,2023 |
| 16 | RF Control Unit | MWRFtest | Mw100 | - | Feb.28,2022 | Feb.27,2025 |
| 17 | Test software | MWRFtest | V8310 | - | - | - |
| 18 | Turntable | MF | MF-7802BS | N/A | \ | \ |
| 19 | Antenna tower | MF | MF-7802BS | N/A | \ | \ |
| 20 | Signal Generator | Agilent | N5182A | N/A | Oct. 22, 2022 | Oct. 21, 2023 |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|
| 1 | LISN | R&S | ENV216 | 101471 | Oct. 22, 2022 | Oct. 21, 2023 |
| 2 | LISN | CYBERTEK | EM5040A | E1850400149 | Oct. 22, 2022 | Oct. 21, 2023 |
| 3 | Test Cable | N/A | C01 | N/A | Oct. 18, 2022 | Oct. 17, 2023 |
| 4 | Test Cable | N/A | C02 | N/A | Oct. 18, 2022 | Oct. 17, 2023 |
| 5 | EMI Test Receiver | R&S | ESCI3 | 101393 | Oct. 17, 2022 | Oct. 16, 2023 |
| 6 | Absorbing Clamp | DZ | ZN23201 | 15034 | Oct. 17, 2022 | Oct. 16, 2023 |
| 7 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON | \ | \ |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | 3A1.1 | | |

RF Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY55370835 | Oct. 18, 2022 | Oct. 17, 2023 |
| 2 | MWRF Power Meter Test system | MW | MW100-RPCB | N/A | Oct. 22, 2022 | Oct. 21, 2023 |
| 3 | D.C. Power Supply | LongWei | TPR-6405D | N/A | \ | \ |
| 4 | RF Software | MW | MTS8310 | V2.0.0.0 | \ | \ |

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|---|---|---|---|
| | Quasi-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) *Decreases with the logarithm of the frequency.

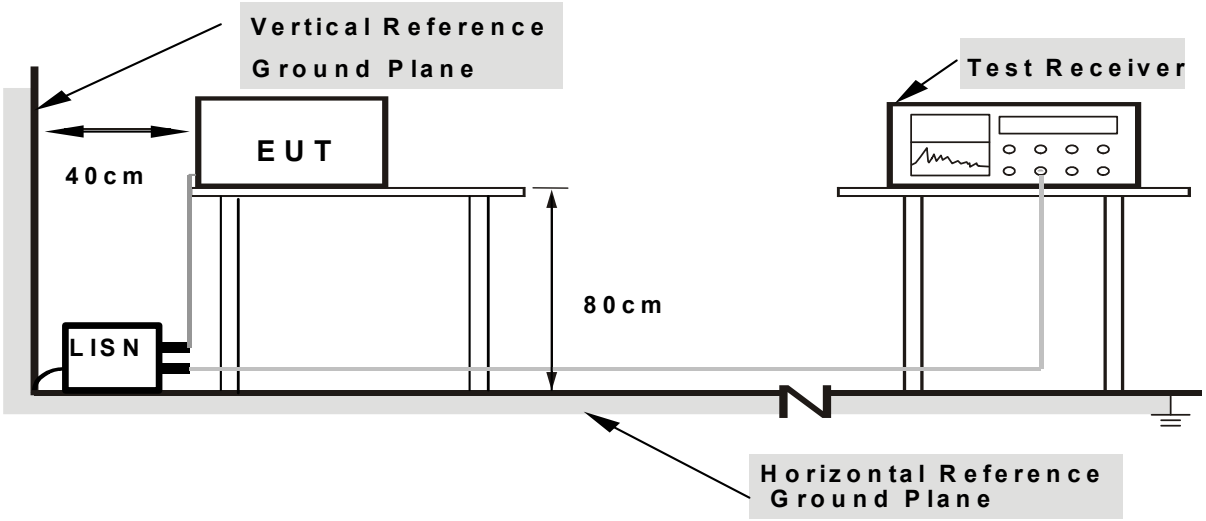
#### 4.1.2 TEST PROCEDURE

a. The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 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 at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 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 from other units and other metal planes

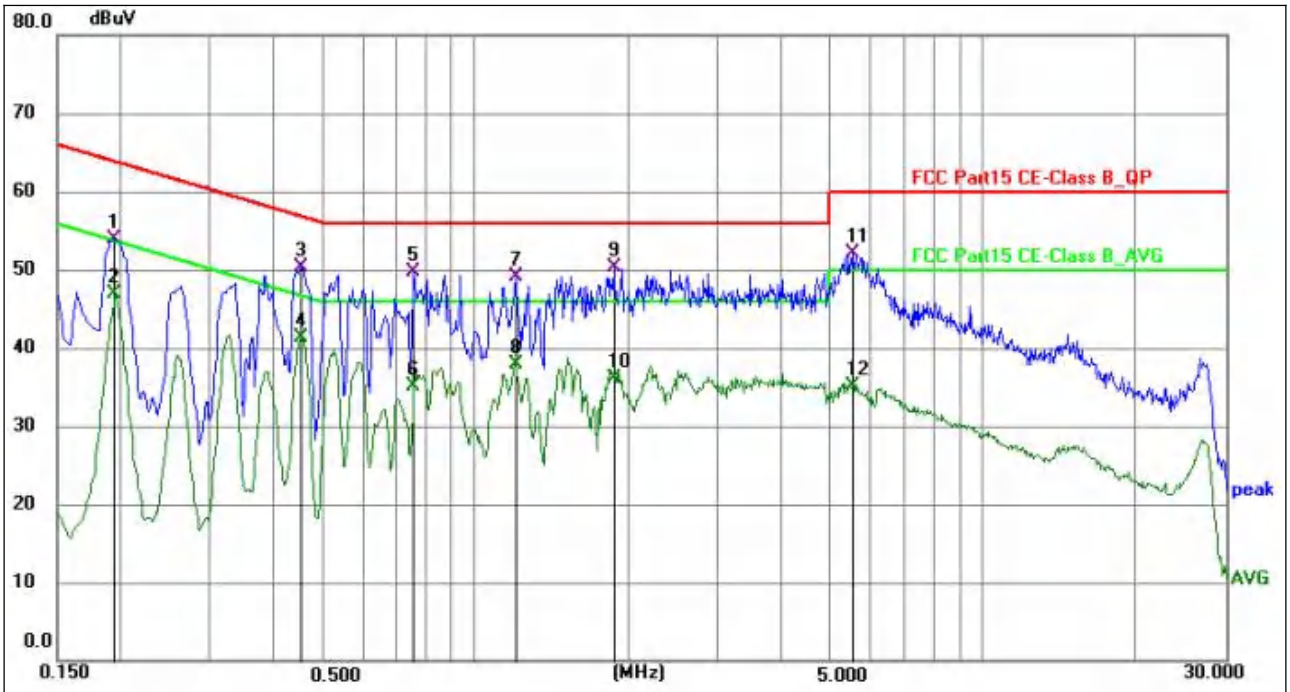
4.1.5 EUT OPERATING CONDITIONS

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.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

### 4.1.6 TEST RESULT

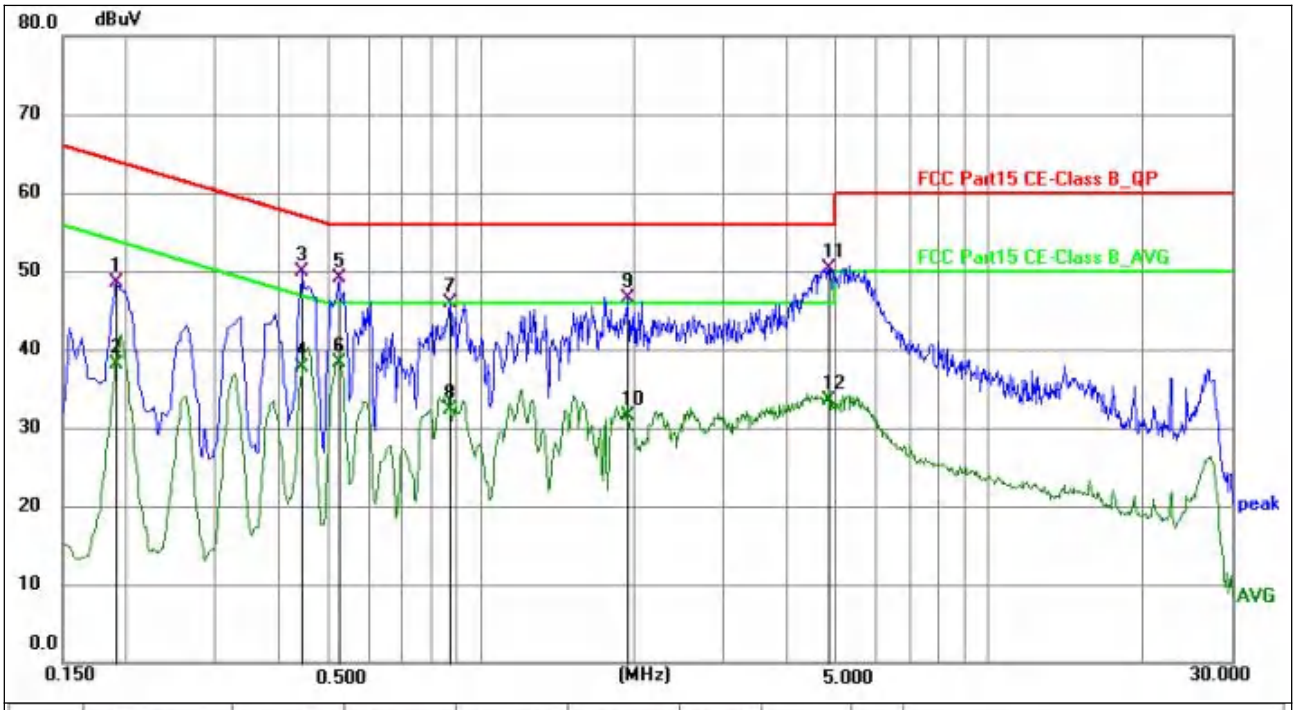
| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode | 802.11b 2412MHz TX (Worst case) |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1949 | 44.16 | 9.69 | 53.85 | 63.83 | -9.98 | QP | P | |
| 2 | 0.1949 | 37.17 | 9.69 | 46.86 | 53.83 | -6.97 | AVG | P | |
| 3 | 0.4515 | 40.75 | 9.63 | 50.38 | 56.85 | -6.47 | QP | P | |
| 4 * | 0.4515 | 31.65 | 9.63 | 41.28 | 46.85 | -5.57 | AVG | P | |
| 5 | 0.7574 | 40.05 | 9.68 | 49.73 | 56.00 | -6.27 | QP | P | |
| 6 | 0.7574 | 25.45 | 9.68 | 35.13 | 46.00 | -10.87 | AVG | P | |
| 7 | 1.1984 | 39.53 | 9.56 | 49.09 | 56.00 | -6.91 | QP | P | |
| 8 | 1.1984 | 28.41 | 9.56 | 37.97 | 46.00 | -8.03 | AVG | P | |
| 9 | 1.8689 | 40.58 | 9.69 | 50.27 | 56.00 | -5.73 | QP | P | |
| 10 | 1.8689 | 26.47 | 9.69 | 36.16 | 46.00 | -9.84 | AVG | P | |
| 11 | 5.5365 | 42.64 | 9.53 | 52.17 | 60.00 | -7.83 | QP | P | |
| 12 | 5.5365 | 25.49 | 9.53 | 35.02 | 50.00 | -14.98 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

| | | | |
|---|---|---|---|
| Temperature : | 26℃ | Relative Humidity: | 54% |
| Pressure : | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode | 802.11b 2412MHz TX (Worst case) |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1905 | 38.81 | 9.67 | 48.48 | 64.01 | -15.53 | QP | P | |
| 2 | 0.1905 | 28.53 | 9.67 | 38.20 | 54.01 | -15.81 | AVG | P | |
| 3 | 0.4425 | 40.34 | 9.63 | 49.97 | 57.01 | -7.04 | QP | P | |
| 4 | 0.4425 | 28.02 | 9.63 | 37.65 | 47.01 | -9.36 | AVG | P | |
| 5 | 0.5233 | 39.42 | 9.63 | 49.05 | 56.00 | -6.95 | QP | P | |
| 6 | 0.5233 | 28.66 | 9.63 | 38.29 | 46.00 | -7.71 | AVG | P | |
| 7 | 0.8700 | 36.33 | 9.61 | 45.94 | 56.00 | -10.06 | QP | P | |
| 8 | 0.8700 | 22.61 | 9.61 | 32.22 | 46.00 | -13.78 | AVG | P | |
| 9 | 1.9410 | 36.86 | 9.71 | 46.57 | 56.00 | -9.43 | QP | P | |
| 10 | 1.9410 | 21.72 | 9.71 | 31.43 | 46.00 | -14.57 | AVG | P | |
| 11 * | 4.8254 | 40.85 | 9.53 | 50.38 | 56.00 | -5.62 | QP | P | |
| 12 | 4.8254 | 23.98 | 9.53 | 33.51 | 46.00 | -12.49 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

## 4.2 RADIATED EMISSION MEASUREMENT

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 9kHz to 25GHz |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

### 4.2.1 RADIATED EMISSION LIMITS

| 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

| FREQUENCY (MHz) | Limit (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).

### 4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoiccamber. 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 avariable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum valueof 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 toheights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber andchange form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

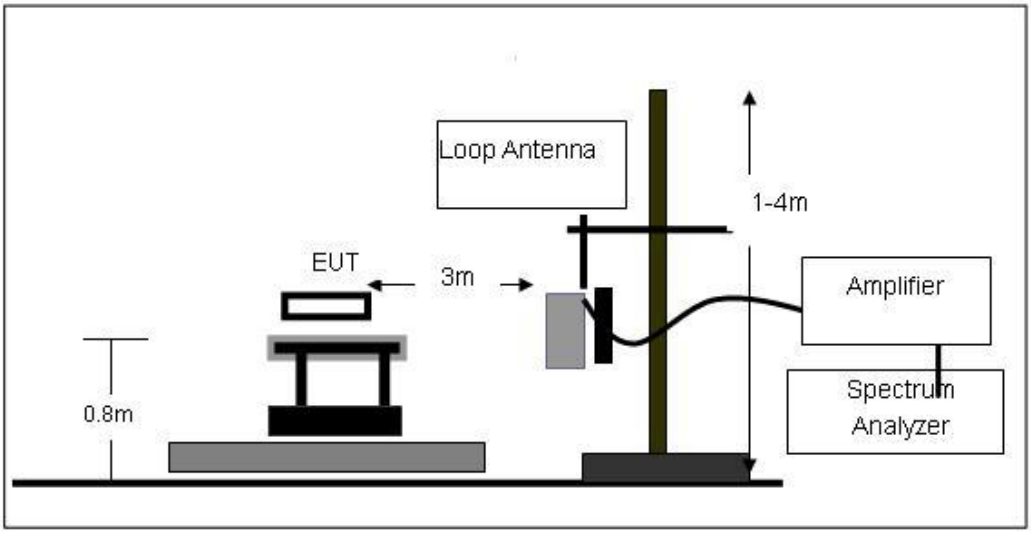
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

### 4.2.3 DEVIATION FROM TEST STANDARD

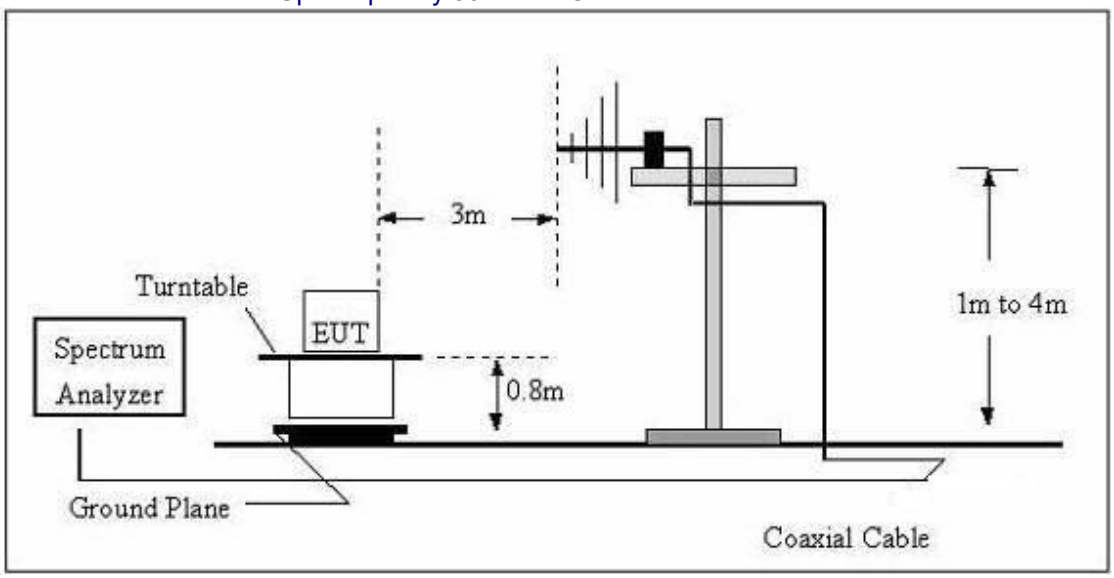
No deviation

### 4.2.4 TEST SETUP

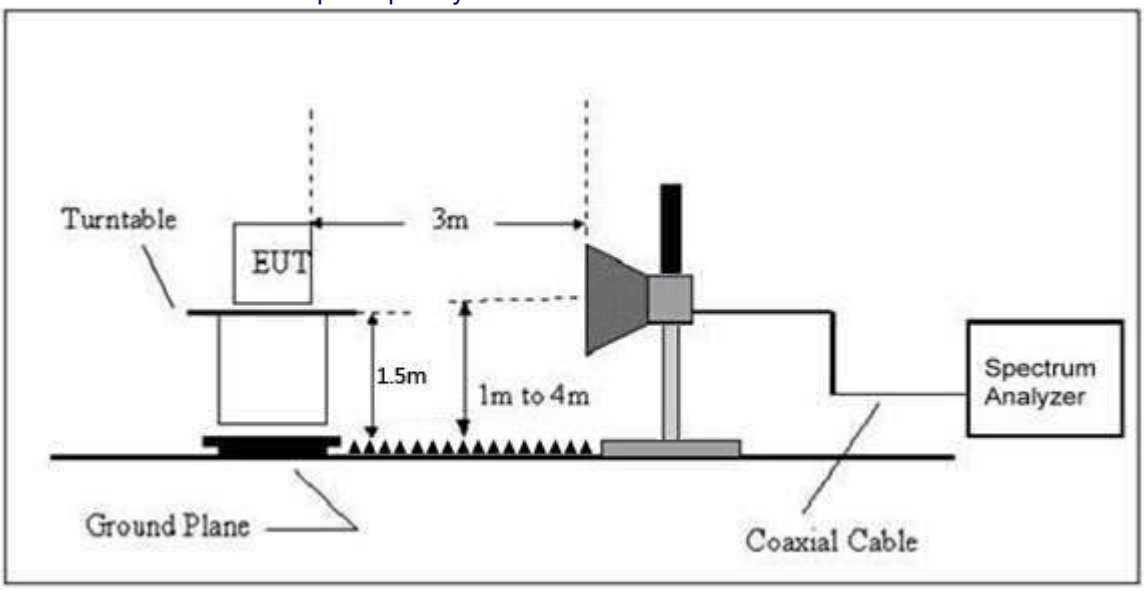
（A）Radiated Emission Test-Up Frequency Below 30MHz



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




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




4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

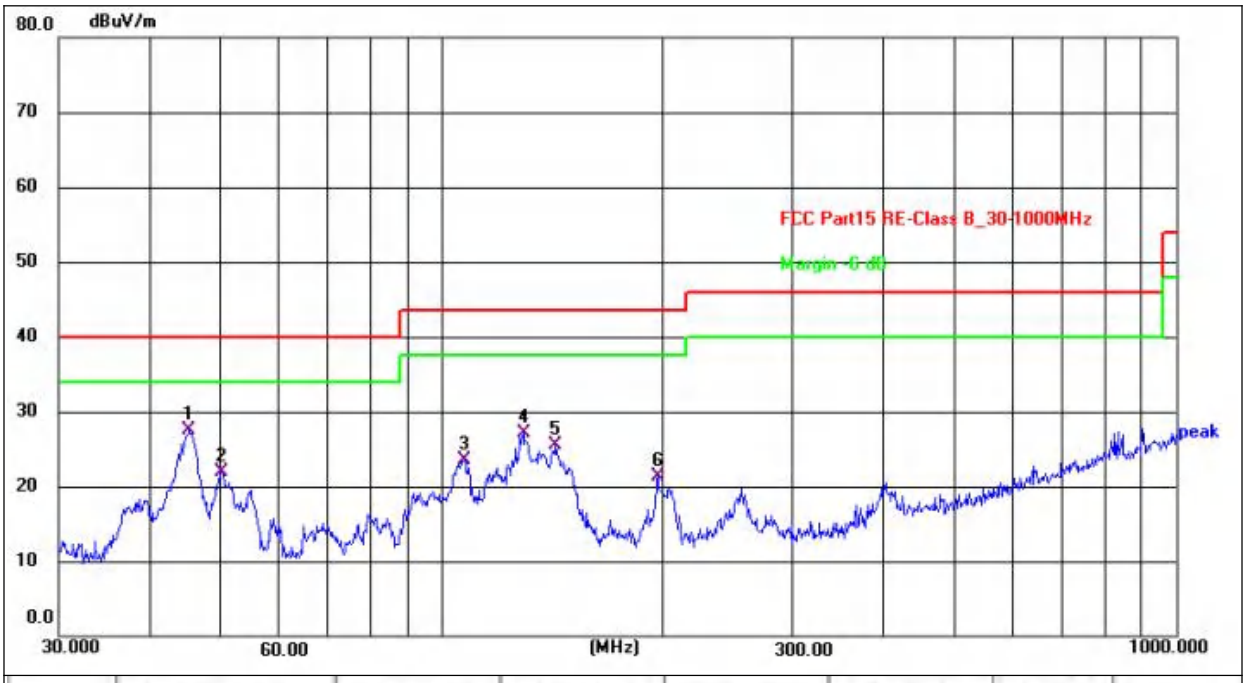
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

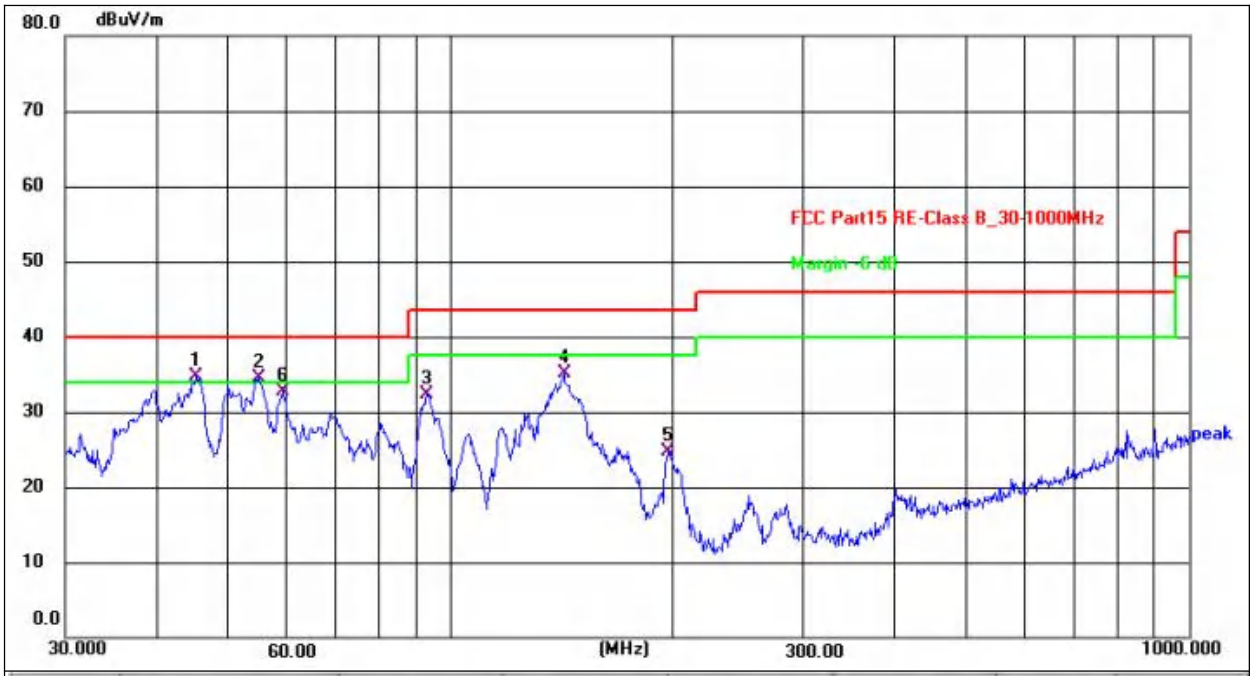
Between 30MHz – 1GHz

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | AC 120V/60Hz | Test Mode | 802.11b 2412MHz TX (Worst case) |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 45.2166 | 43.40 | -15.99 | 27.41 | 40.00 | -12.59 | QP |
| 2 | 50.0566 | 38.59 | -16.62 | 21.97 | 40.00 | -18.03 | QP |
| 3 | 107.1337 | 42.75 | -19.31 | 23.44 | 43.50 | -20.06 | QP |
| 4 | 129.0146 | 44.76 | -17.69 | 27.07 | 43.50 | -16.43 | QP |
| 5 | 142.8243 | 42.00 | -16.52 | 25.48 | 43.50 | -18.02 | QP |
| 6 | 196.5098 | 40.26 | -18.94 | 21.32 | 43.50 | -22.18 | QP |

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | AC 120V/60Hz | Test Mode | 802.11b 2412MHz TX (Worst case) |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 45.0583 | 50.69 | -15.97 | 34.72 | 40.00 | -5.28 | QP |
| 2 ! | 54.8348 | 51.44 | -16.98 | 34.46 | 40.00 | -5.54 | QP |
| 3 | 92.7871 | 52.35 | -20.10 | 32.25 | 43.50 | -11.25 | QP |
| 4 | 142.3243 | 51.59 | -16.57 | 35.02 | 43.50 | -8.48 | QP |
| 5 | 196.5098 | 43.59 | -18.94 | 24.65 | 43.50 | -18.85 | QP |
| 6 | 59.2323 | 49.95 | -17.30 | 32.65 | 40.00 | -7.35 | QP |

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case 802.11b and AC 120V mode

1GHz~25GHz

802.11b

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2412MHz | | | | | | | | | |
| V | 4824.00 | 53.77 | 30.55 | 5.77 | 24.66 | 53.65 | 74.00 | -20.35 | Pk |
| V | 4824.00 | 43.10 | 30.55 | 5.77 | 24.66 | 42.98 | 54.00 | -11.02 | AV |
| V | 7236.00 | 53.69 | 30.33 | 6.32 | 24.55 | 54.23 | 74.00 | -19.77 | Pk |
| V | 7236.00 | 43.28 | 30.33 | 6.32 | 24.55 | 43.82 | 54.00 | -10.18 | AV |
| V | 9648.00 | 53.07 | 30.85 | 7.45 | 24.69 | 54.36 | 74.00 | -19.64 | Pk |
| V | 9648.00 | 43.67 | 30.85 | 7.45 | 24.69 | 44.96 | 54.00 | -9.04 | AV |
| V | 12060.00 | 51.13 | 31.02 | 8.99 | 25.57 | 54.67 | 74.00 | -19.33 | Pk |
| V | 12060.00 | 43.93 | 31.02 | 8.99 | 25.57 | 47.47 | 54.00 | -6.53 | AV |
| H | 4824.00 | 50.90 | 30.55 | 5.77 | 24.66 | 50.78 | 74.00 | -23.22 | Pk |
| H | 4824.00 | 43.03 | 30.55 | 5.77 | 24.66 | 42.91 | 54.00 | -11.09 | AV |
| H | 7236.00 | 51.79 | 30.33 | 6.32 | 24.55 | 52.33 | 74.00 | -21.67 | Pk |
| H | 7236.00 | 43.64 | 30.33 | 6.32 | 24.55 | 44.18 | 54.00 | -9.82 | AV |
| H | 9648.00 | 52.14 | 30.85 | 7.45 | 24.69 | 53.43 | 74.00 | -20.57 | Pk |
| H | 9648.00 | 43.80 | 30.85 | 7.45 | 24.69 | 45.09 | 54.00 | -8.91 | AV |
| H | 12060.00 | 54.24 | 31.02 | 8.99 | 25.57 | 57.78 | 74.00 | -16.22 | Pk |
| H | 12060.00 | 43.79 | 31.02 | 8.99 | 25.57 | 47.33 | 54.00 | -6.67 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2437MHz | | | | | | | | | |
| V | 4874.00 | 52.69 | 30.55 | 5.77 | 24.66 | 52.57 | 74.00 | -21.43 | Pk |
| V | 4874.00 | 43.02 | 30.55 | 5.77 | 24.66 | 42.90 | 54.00 | -11.10 | AV |
| V | 7311.00 | 54.37 | 30.33 | 6.32 | 24.55 | 54.91 | 74.00 | -19.09 | Pk |
| V | 7311.00 | 43.04 | 30.33 | 6.32 | 24.55 | 43.58 | 54.00 | -10.42 | AV |
| V | 9748.00 | 54.04 | 30.85 | 7.45 | 24.69 | 55.33 | 74.00 | -18.67 | Pk |
| V | 9748.00 | 43.24 | 30.85 | 7.45 | 24.69 | 44.53 | 54.00 | -9.47 | AV |
| V | 12185.00 | 52.66 | 31.02 | 8.99 | 25.57 | 56.20 | 74.00 | -17.80 | Pk |
| V | 12185.00 | 43.32 | 31.02 | 8.99 | 25.57 | 46.86 | 54.00 | -7.14 | AV |
| H | 4874.00 | 53.35 | 30.55 | 5.77 | 24.66 | 53.23 | 74.00 | -20.77 | Pk |
| H | 4874.00 | 43.50 | 30.55 | 5.77 | 24.66 | 43.38 | 54.00 | -10.62 | AV |
| H | 7311.00 | 51.95 | 30.33 | 6.32 | 24.55 | 52.49 | 74.00 | -21.51 | Pk |
| H | 7311.00 | 43.84 | 30.33 | 6.32 | 24.55 | 44.38 | 54.00 | -9.62 | AV |
| H | 9748.00 | 52.57 | 30.85 | 7.45 | 24.69 | 53.86 | 74.00 | -20.14 | Pk |
| H | 9748.00 | 43.01 | 30.85 | 7.45 | 24.69 | 44.30 | 54.00 | -9.70 | AV |
| H | 12185.00 | 50.43 | 31.02 | 8.99 | 25.57 | 53.97 | 74.00 | -20.03 | Pk |
| H | 12185.00 | 43.08 | 31.02 | 8.99 | 25.57 | 46.62 | 54.00 | -7.38 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2462MHz | | | | | | | | | |
| V | 4924.00 | 52.00 | 30.55 | 5.77 | 24.66 | 51.88 | 74.00 | -22.12 | Pk |
| V | 4924.00 | 43.47 | 30.55 | 5.77 | 24.66 | 43.35 | 54.00 | -10.65 | AV |
| V | 7386.00 | 53.94 | 30.33 | 6.32 | 24.55 | 54.48 | 74.00 | -19.52 | Pk |
| V | 7386.00 | 43.61 | 30.33 | 6.32 | 24.55 | 44.15 | 54.00 | -9.85 | AV |
| V | 9848.00 | 51.87 | 30.85 | 7.45 | 24.69 | 53.16 | 74.00 | -20.84 | Pk |
| V | 9848.00 | 43.03 | 30.85 | 7.45 | 24.69 | 44.32 | 54.00 | -9.68 | AV |
| V | 12310.00 | 50.54 | 31.02 | 8.99 | 25.57 | 54.08 | 74.00 | -19.92 | Pk |
| V | 12310.00 | 43.54 | 31.02 | 8.99 | 25.57 | 47.08 | 54.00 | -6.92 | AV |
| H | 4924.00 | 53.25 | 30.55 | 5.77 | 24.66 | 53.13 | 74.00 | -20.87 | Pk |
| H | 4924.00 | 43.66 | 30.55 | 5.77 | 24.66 | 43.54 | 54.00 | -10.46 | AV |
| H | 7386.00 | 52.70 | 30.33 | 6.32 | 24.55 | 53.24 | 74.00 | -20.76 | Pk |
| H | 7386.00 | 43.47 | 30.33 | 6.32 | 24.55 | 44.01 | 54.00 | -9.99 | AV |
| H | 9848.00 | 52.80 | 30.85 | 7.45 | 24.69 | 54.09 | 74.00 | -19.91 | Pk |
| H | 9848.00 | 43.51 | 30.85 | 7.45 | 24.69 | 44.80 | 54.00 | -9.20 | AV |
| H | 12310.00 | 53.62 | 31.02 | 8.99 | 25.57 | 57.16 | 74.00 | -16.84 | Pk |
| H | 12310.00 | 43.68 | 31.02 | 8.99 | 25.57 | 47.22 | 54.00 | -6.78 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2412MHz | | | | | | | | | |
| V | 4824.00 | 54.92 | 30.55 | 5.77 | 24.66 | 54.80 | 74.00 | -19.20 | Pk |
| V | 4824.00 | 43.07 | 30.55 | 5.77 | 24.66 | 42.95 | 54.00 | -11.05 | AV |
| V | 7236.00 | 54.63 | 30.33 | 6.32 | 24.55 | 55.17 | 74.00 | -18.83 | Pk |
| V | 7236.00 | 43.60 | 30.33 | 6.32 | 24.55 | 44.14 | 54.00 | -9.86 | AV |
| V | 9648.00 | 50.88 | 30.85 | 7.45 | 24.69 | 52.17 | 74.00 | -21.83 | Pk |
| V | 9648.00 | 43.49 | 30.85 | 7.45 | 24.69 | 44.78 | 54.00 | -9.22 | AV |
| V | 12060.00 | 50.44 | 31.02 | 8.99 | 25.57 | 53.98 | 74.00 | -20.02 | Pk |
| V | 12060.00 | 43.79 | 31.02 | 8.99 | 25.57 | 47.33 | 54.00 | -6.67 | AV |
| H | 4824.00 | 52.13 | 30.55 | 5.77 | 24.66 | 52.01 | 74.00 | -21.99 | Pk |
| H | 4824.00 | 43.02 | 30.55 | 5.77 | 24.66 | 42.90 | 54.00 | -11.10 | AV |
| H | 7236.00 | 52.06 | 30.33 | 6.32 | 24.55 | 52.60 | 74.00 | -21.40 | Pk |
| H | 7236.00 | 43.81 | 30.33 | 6.32 | 24.55 | 44.35 | 54.00 | -9.65 | AV |
| H | 9648.00 | 53.86 | 30.85 | 7.45 | 24.69 | 55.15 | 74.00 | -18.85 | Pk |
| H | 9648.00 | 43.66 | 30.85 | 7.45 | 24.69 | 44.95 | 54.00 | -9.05 | AV |
| H | 12060.00 | 50.99 | 31.02 | 8.99 | 25.57 | 54.53 | 74.00 | -19.47 | Pk |
| H | 12060.00 | 43.14 | 31.02 | 8.99 | 25.57 | 46.68 | 54.00 | -7.32 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2437MHz | | | | | | | | | |
| V | 4874.00 | 51.77 | 30.55 | 5.77 | 24.66 | 51.65 | 74.00 | -22.35 | Pk |
| V | 4874.00 | 43.31 | 30.55 | 5.77 | 24.66 | 43.19 | 54.00 | -10.81 | AV |
| V | 7311.00 | 53.30 | 30.33 | 6.32 | 24.55 | 53.84 | 74.00 | -20.16 | Pk |
| V | 7311.00 | 43.01 | 30.33 | 6.32 | 24.55 | 43.55 | 54.00 | -10.45 | AV |
| V | 9748.00 | 52.98 | 30.85 | 7.45 | 24.69 | 54.27 | 74.00 | -19.73 | Pk |
| V | 9748.00 | 43.61 | 30.85 | 7.45 | 24.69 | 44.90 | 54.00 | -9.10 | AV |
| V | 12185.00 | 51.43 | 31.02 | 8.99 | 25.57 | 54.97 | 74.00 | -19.03 | Pk |
| V | 12185.00 | 43.94 | 31.02 | 8.99 | 25.57 | 47.48 | 54.00 | -6.52 | AV |
| H | 4874.00 | 51.04 | 30.55 | 5.77 | 24.66 | 50.92 | 74.00 | -23.08 | Pk |
| H | 4874.00 | 43.75 | 30.55 | 5.77 | 24.66 | 43.63 | 54.00 | -10.37 | AV |
| H | 7311.00 | 52.39 | 30.33 | 6.32 | 24.55 | 52.93 | 74.00 | -21.07 | Pk |
| H | 7311.00 | 43.90 | 30.33 | 6.32 | 24.55 | 44.44 | 54.00 | -9.56 | AV |
| H | 9748.00 | 54.37 | 30.85 | 7.45 | 24.69 | 55.66 | 74.00 | -18.34 | Pk |
| H | 9748.00 | 43.91 | 30.85 | 7.45 | 24.69 | 45.20 | 54.00 | -8.80 | AV |
| H | 12185.00 | 51.96 | 31.02 | 8.99 | 25.57 | 55.50 | 74.00 | -18.50 | Pk |
| H | 12185.00 | 43.33 | 31.02 | 8.99 | 25.57 | 46.87 | 54.00 | -7.13 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2462MHz | | | | | | | | | |
| V | 4924.00 | 51.64 | 30.55 | 5.77 | 24.66 | 51.52 | 74.00 | -22.48 | Pk |
| V | 4924.00 | 43.72 | 30.55 | 5.77 | 24.66 | 43.60 | 54.00 | -10.40 | AV |
| V | 7386.00 | 52.56 | 30.33 | 6.32 | 24.55 | 53.10 | 74.00 | -20.90 | Pk |
| V | 7386.00 | 43.04 | 30.33 | 6.32 | 24.55 | 43.58 | 54.00 | -10.42 | AV |
| V | 9848.00 | 50.98 | 30.85 | 7.45 | 24.69 | 52.27 | 74.00 | -21.73 | Pk |
| V | 9848.00 | 43.66 | 30.85 | 7.45 | 24.69 | 44.95 | 54.00 | -9.05 | AV |
| V | 12310.00 | 50.78 | 31.02 | 8.99 | 25.57 | 54.32 | 74.00 | -19.68 | Pk |
| V | 12310.00 | 43.41 | 31.02 | 8.99 | 25.57 | 46.95 | 54.00 | -7.05 | AV |
| H | 4924.00 | 50.29 | 30.55 | 5.77 | 24.66 | 50.17 | 74.00 | -23.83 | Pk |
| H | 4924.00 | 43.42 | 30.55 | 5.77 | 24.66 | 43.30 | 54.00 | -10.70 | AV |
| H | 7386.00 | 54.02 | 30.33 | 6.32 | 24.55 | 54.56 | 74.00 | -19.44 | Pk |
| H | 7386.00 | 43.80 | 30.33 | 6.32 | 24.55 | 44.34 | 54.00 | -9.66 | AV |
| H | 9848.00 | 51.31 | 30.85 | 7.45 | 24.69 | 52.60 | 74.00 | -21.40 | Pk |
| H | 9848.00 | 43.70 | 30.85 | 7.45 | 24.69 | 44.99 | 54.00 | -9.01 | AV |
| H | 12310.00 | 50.92 | 31.02 | 8.99 | 25.57 | 54.46 | 74.00 | -19.54 | Pk |
| H | 12310.00 | 43.42 | 31.02 | 8.99 | 25.57 | 46.96 | 54.00 | -7.04 | AV |

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n20

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2412MHz | | | | | | | | | |
| V | 4924.00 | 54.06 | 30.55 | 5.77 | 24.66 | 53.94 | 74.00 | -20.06 | Pk |
| V | 4924.00 | 43.31 | 30.55 | 5.77 | 24.66 | 43.19 | 54.00 | -10.81 | AV |
| V | 7386.00 | 50.63 | 30.33 | 6.32 | 24.55 | 51.17 | 74.00 | -22.83 | Pk |
| V | 7386.00 | 43.35 | 30.33 | 6.32 | 24.55 | 43.89 | 54.00 | -10.11 | AV |
| V | 9848.00 | 50.51 | 30.85 | 7.45 | 24.69 | 51.80 | 74.00 | -22.20 | Pk |
| V | 9848.00 | 43.27 | 30.85 | 7.45 | 24.69 | 44.56 | 54.00 | -9.44 | AV |
| V | 12310.00 | 53.02 | 31.02 | 8.99 | 25.57 | 56.56 | 74.00 | -17.44 | Pk |
| V | 12310.00 | 44.00 | 31.02 | 8.99 | 25.57 | 47.54 | 54.00 | -6.46 | AV |
| H | 4924.00 | 52.48 | 30.55 | 5.77 | 24.66 | 52.36 | 74.00 | -21.64 | Pk |
| H | 4924.00 | 43.43 | 30.55 | 5.77 | 24.66 | 43.31 | 54.00 | -10.69 | AV |
| H | 7386.00 | 52.39 | 30.33 | 6.32 | 24.55 | 52.93 | 74.00 | -21.07 | Pk |
| H | 7386.00 | 43.48 | 30.33 | 6.32 | 24.55 | 44.02 | 54.00 | -9.98 | AV |
| H | 9848.00 | 51.98 | 30.85 | 7.45 | 24.69 | 53.27 | 74.00 | -20.73 | Pk |
| H | 9848.00 | 43.27 | 30.85 | 7.45 | 24.69 | 44.56 | 54.00 | -9.44 | AV |
| H | 12310.00 | 52.49 | 31.02 | 8.99 | 25.57 | 56.03 | 74.00 | -17.97 | Pk |
| H | 12310.00 | 43.83 | 31.02 | 8.99 | 25.57 | 47.37 | 54.00 | -6.63 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2437MHz | | | | | | | | | |
| V | 4874.00 | 54.92 | 30.55 | 5.77 | 24.66 | 54.80 | 74.00 | -19.20 | Pk |
| V | 4874.00 | 43.66 | 30.55 | 5.77 | 24.66 | 43.54 | 54.00 | -10.46 | AV |
| V | 7311.00 | 51.33 | 30.33 | 6.32 | 24.55 | 51.87 | 74.00 | -22.13 | Pk |
| V | 7311.00 | 43.46 | 30.33 | 6.32 | 24.55 | 44.00 | 54.00 | -10.00 | AV |
| V | 9748.00 | 50.29 | 30.85 | 7.45 | 24.69 | 51.58 | 74.00 | -22.42 | Pk |
| V | 9748.00 | 43.41 | 30.85 | 7.45 | 24.69 | 44.70 | 54.00 | -9.30 | AV |
| V | 12185.00 | 50.29 | 31.02 | 8.99 | 25.57 | 53.83 | 74.00 | -20.17 | Pk |
| V | 12185.00 | 43.63 | 31.02 | 8.99 | 25.57 | 47.17 | 54.00 | -6.83 | AV |
| H | 4874.00 | 51.16 | 30.55 | 5.77 | 24.66 | 51.04 | 74.00 | -22.96 | Pk |
| H | 4874.00 | 43.34 | 30.55 | 5.77 | 24.66 | 43.22 | 54.00 | -10.78 | AV |
| H | 7311.00 | 54.91 | 30.33 | 6.32 | 24.55 | 55.45 | 74.00 | -18.55 | Pk |
| H | 7311.00 | 43.96 | 30.33 | 6.32 | 24.55 | 44.50 | 54.00 | -9.50 | AV |
| H | 9748.00 | 50.95 | 30.85 | 7.45 | 24.69 | 52.24 | 74.00 | -21.76 | Pk |
| H | 9748.00 | 43.56 | 30.85 | 7.45 | 24.69 | 44.85 | 54.00 | -9.15 | AV |
| H | 12185.00 | 52.68 | 31.02 | 8.99 | 25.57 | 56.22 | 74.00 | -17.78 | Pk |
| H | 12185.00 | 43.39 | 31.02 | 8.99 | 25.57 | 46.93 | 54.00 | -7.07 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2462MHz | | | | | | | | | |
| V | 4924.00 | 52.79 | 30.55 | 5.77 | 24.66 | 52.67 | 74.00 | -21.33 | Pk |
| V | 4924.00 | 43.95 | 30.55 | 5.77 | 24.66 | 43.83 | 54.00 | -10.17 | AV |
| V | 7386.00 | 52.34 | 30.33 | 6.32 | 24.55 | 52.88 | 74.00 | -21.12 | Pk |
| V | 7386.00 | 43.77 | 30.33 | 6.32 | 24.55 | 44.31 | 54.00 | -9.69 | AV |
| V | 9848.00 | 54.77 | 30.85 | 7.45 | 24.69 | 56.06 | 74.00 | -17.94 | Pk |
| V | 9848.00 | 43.92 | 30.85 | 7.45 | 24.69 | 45.21 | 54.00 | -8.79 | AV |
| V | 12310.00 | 53.13 | 31.02 | 8.99 | 25.57 | 56.67 | 74.00 | -17.33 | Pk |
| V | 12310.00 | 43.28 | 31.02 | 8.99 | 25.57 | 46.82 | 54.00 | -7.18 | AV |
| H | 4924.00 | 54.20 | 30.55 | 5.77 | 24.66 | 54.08 | 74.00 | -19.92 | Pk |
| H | 4924.00 | 43.32 | 30.55 | 5.77 | 24.66 | 43.20 | 54.00 | -10.80 | AV |
| H | 7386.00 | 54.42 | 30.33 | 6.32 | 24.55 | 54.96 | 74.00 | -19.04 | Pk |
| H | 7386.00 | 43.25 | 30.33 | 6.32 | 24.55 | 43.79 | 54.00 | -10.21 | AV |
| H | 9848.00 | 50.27 | 30.85 | 7.45 | 24.69 | 51.56 | 74.00 | -22.44 | Pk |
| H | 9848.00 | 43.52 | 30.85 | 7.45 | 24.69 | 44.81 | 54.00 | -9.19 | AV |
| H | 12310.00 | 51.09 | 31.02 | 8.99 | 25.57 | 54.63 | 74.00 | -19.37 | Pk |
| H | 12310.00 | 43.05 | 31.02 | 8.99 | 25.57 | 46.59 | 54.00 | -7.41 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

## 5.RADIATED BAND EMISSIONMEASUREMENT

### 5.1 TEST REQUIREMENT:

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
</td></tr>
</table>

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class B (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).

### 5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

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

Note:

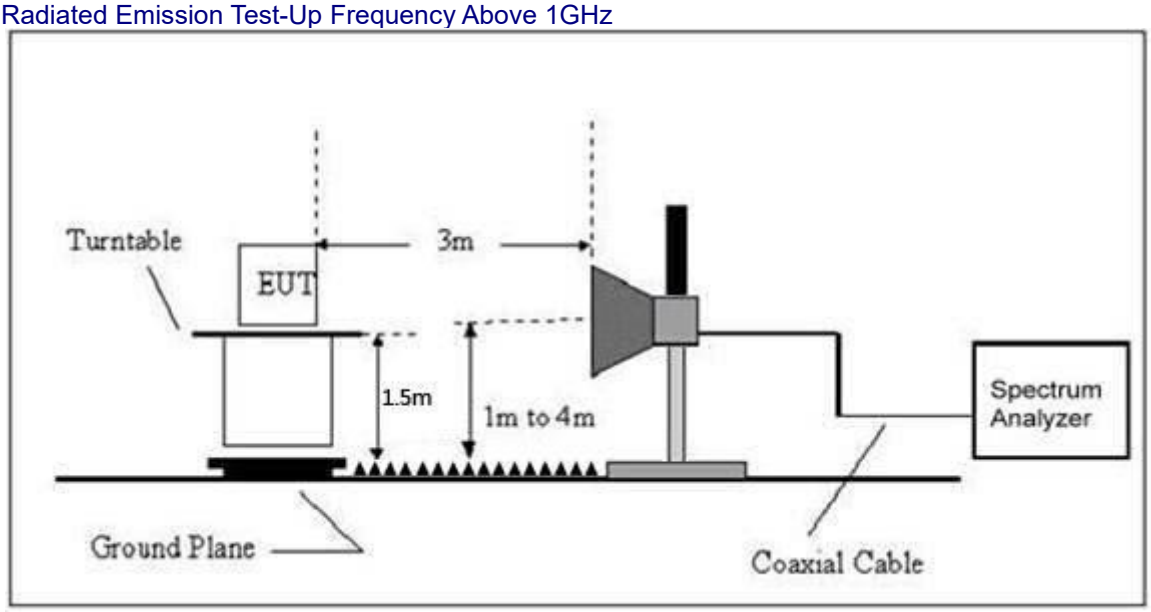
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

### 5.3 DEVIATION FROM TEST STANDARD

No deviation

## 5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz




## 5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

| | Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m) | Detector Type | Result |
|---|---|---|---|---|---|---|---|---|---|---|
| 802.11b | LowChannel 2412MHz | | | | | | | | | |
| | H | 2390.00 | 53.26 | 30.22 | 4.85 | 23.98 | 51.87 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.22 | 30.22 | 4.85 | 23.98 | 42.83 | 54.00 | AV | PASS |
| | H | 2400.00 | 54.76 | 30.22 | 4.85 | 23.98 | 53.37 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.96 | 30.22 | 4.85 | 23.98 | 43.57 | 54.00 | AV | PASS |
| | V | 2390.00 | 54.83 | 30.22 | 4.85 | 23.98 | 53.44 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.10 | 30.22 | 4.85 | 23.98 | 42.71 | 54.00 | AV | PASS |
| | V | 2400.00 | 54.73 | 30.22 | 4.85 | 23.98 | 53.34 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.16 | 30.22 | 4.85 | 23.98 | 42.77 | 54.00 | AV | PASS |
| | HighChannel 2462MHz | | | | | | | | | |
| | H | 2483.50 | 53.44 | 30.22 | 4.85 | 23.98 | 52.05 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.79 | 30.22 | 4.85 | 23.98 | 43.40 | 54.00 | AV | PASS |
| | H | 2500.00 | 53.78 | 30.22 | 4.85 | 23.98 | 52.39 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.52 | 30.22 | 4.85 | 23.98 | 43.13 | 54.00 | AV | PASS |
| | V | 2483.50 | 54.07 | 30.22 | 4.85 | 23.98 | 52.68 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.12 | 30.22 | 4.85 | 23.98 | 42.73 | 54.00 | AV | PASS |
| | V | 2500.00 | 54.46 | 30.22 | 4.85 | 23.98 | 53.07 | 74.00 | Pk | PASS |
| | V | 2500.00 | 44.00 | 30.22 | 4.85 | 23.98 | 42.61 | 54.00 | AV | PASS |
| 802.11g | LowChannel 2412MHz | | | | | | | | | |
| | H | 2390.00 | 54.71 | 30.22 | 4.85 | 23.98 | 53.32 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.14 | 30.22 | 4.85 | 23.98 | 42.75 | 54.00 | AV | PASS |
| | H | 2400.00 | 54.07 | 30.22 | 4.85 | 23.98 | 52.68 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.47 | 30.22 | 4.85 | 23.98 | 43.08 | 54.00 | AV | PASS |
| | V | 2390.00 | 54.58 | 30.22 | 4.85 | 23.98 | 53.19 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.58 | 30.22 | 4.85 | 23.98 | 43.19 | 54.00 | AV | PASS |
| | V | 2400.00 | 53.67 | 30.22 | 4.85 | 23.98 | 52.28 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.69 | 30.22 | 4.85 | 23.98 | 43.30 | 54.00 | AV | PASS |
| | High Channel 2462MHz | | | | | | | | | |
| | H | 2483.50 | 54.36 | 30.22 | 4.85 | 23.98 | 52.97 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.59 | 30.22 | 4.85 | 23.98 | 43.20 | 54.00 | AV | PASS |
| | H | 2500.00 | 53.08 | 30.22 | 4.85 | 23.98 | 51.69 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.82 | 30.22 | 4.85 | 23.98 | 43.43 | 54.00 | AV | PASS |
| | V | 2483.50 | 53.14 | 30.22 | 4.85 | 23.98 | 51.75 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.35 | 30.22 | 4.85 | 23.98 | 42.96 | 54.00 | AV | PASS |
| | V | 2500.00 | 53.88 | 30.22 | 4.85 | 23.98 | 52.49 | 74.00 | Pk | PASS |
| | V | 2500.00 | 44.41 | 30.22 | 4.85 | 23.98 | 43.02 | 54.00 | AV | PASS |
| 802.11n20 | LowChannel 2412MHz | | | | | | | | | |
| | H | 2390.00 | 54.85 | 30.22 | 4.85 | 23.98 | 53.46 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.32 | 30.22 | 4.85 | 23.98 | 42.93 | 54.00 | AV | PASS |
| | H | 2400.00 | 54.27 | 30.22 | 4.85 | 23.98 | 52.88 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.05 | 30.22 | 4.85 | 23.98 | 42.66 | 54.00 | AV | PASS |
| | V | 2390.00 | 53.53 | 30.22 | 4.85 | 23.98 | 52.14 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.47 | 30.22 | 4.85 | 23.98 | 43.08 | 54.00 | AV | PASS |
| | V | 2400.00 | 53.98 | 30.22 | 4.85 | 23.98 | 52.59 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.23 | 30.22 | 4.85 | 23.98 | 42.84 | 54.00 | AV | PASS |
| | High Channel 2462MHz | | | | | | | | | |
| | H | 2483.50 | 53.77 | 30.22 | 4.85 | 23.98 | 52.38 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.28 | 30.22 | 4.85 | 23.98 | 42.89 | 54.00 | AV | PASS |
| | H | 2500.00 | 54.74 | 30.22 | 4.85 | 23.98 | 53.35 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.73 | 30.22 | 4.85 | 23.98 | 43.34 | 54.00 | AV | PASS |
| | V | 2483.50 | 53.16 | 30.22 | 4.85 | 23.98 | 51.77 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.25 | 30.22 | 4.85 | 23.98 | 42.86 | 54.00 | AV | PASS |
| | V | 2500.00 | 53.28 | 30.22 | 4.85 | 23.98 | 51.89 | 74.00 | Pk | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | V | 2500.00 | 44.47 | 30.22 | 4.85 | 23.98 | 43.08 | 54.00 | AV | PASS |

**Remark:**

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

## 6.POWER SPECTRAL DENSITY TEST

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247 | Power Spectral Density | 8dBm/3kHz(SISO) | 2400-2483.5 | PASS |

### 6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x 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 within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.3 DEVIATION FROM STANDARD

No deviation.

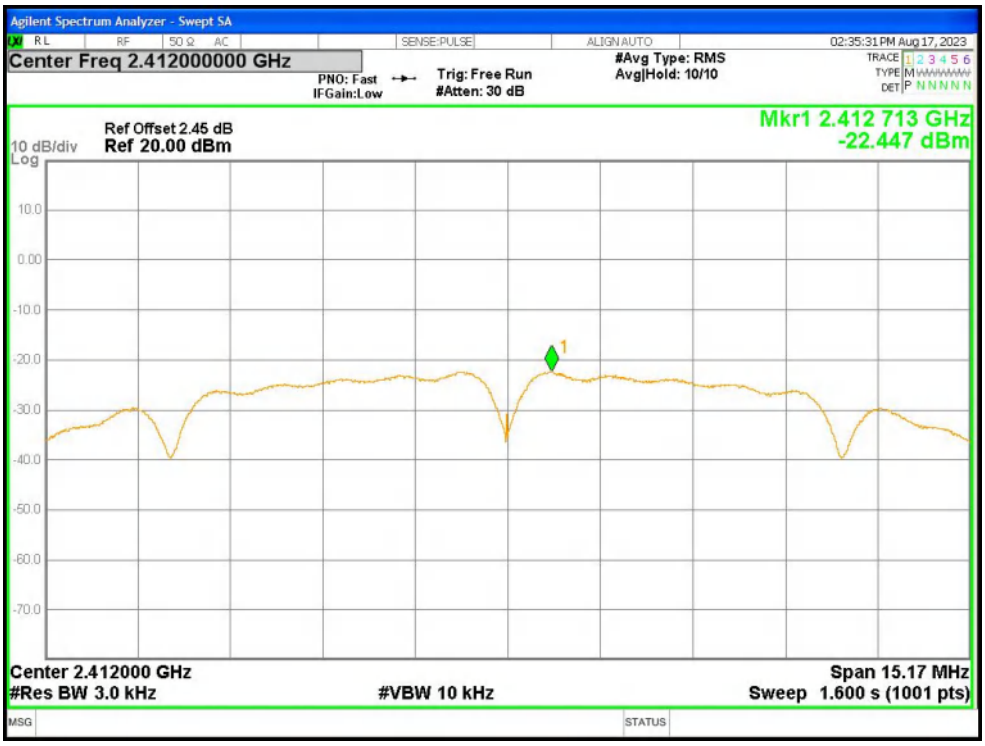
### 6.4 TEST SETUP

### 6.5 EUT OPERATION CONDITIONS

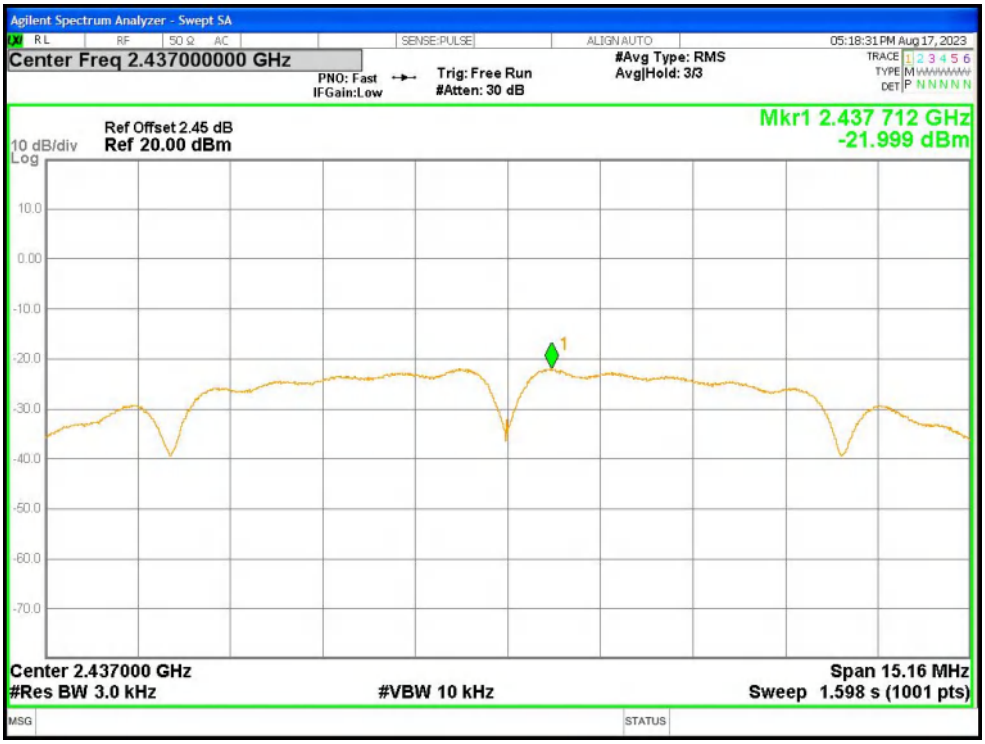
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

## 6.6 TEST RESULT

| Mode | Frequency (MHz) | Conducted PSD (dBm/3kHz) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---|---|---|---|---|---|
| b | 2412 | -22.45 | -22.45 | 8 | Pass |
| b | 2437 | -22 | -22 | 8 | Pass |
| b | 2462 | -23.09 | -23.09 | 8 | Pass |
| g | 2412 | -21.61 | -21.61 | 8 | Pass |
| g | 2437 | -20.36 | -20.36 | 8 | Pass |
| g | 2462 | -20.3 | -20.3 | 8 | Pass |
| n20 | 2412 | -18.58 | -18.58 | 8 | Pass |
| n20 | 2437 | -18.65 | -18.65 | 8 | Pass |
| n20 | 2462 | -19.25 | -19.25 | 8 | Pass |




PSD NVNT b 2412MHz Ant1

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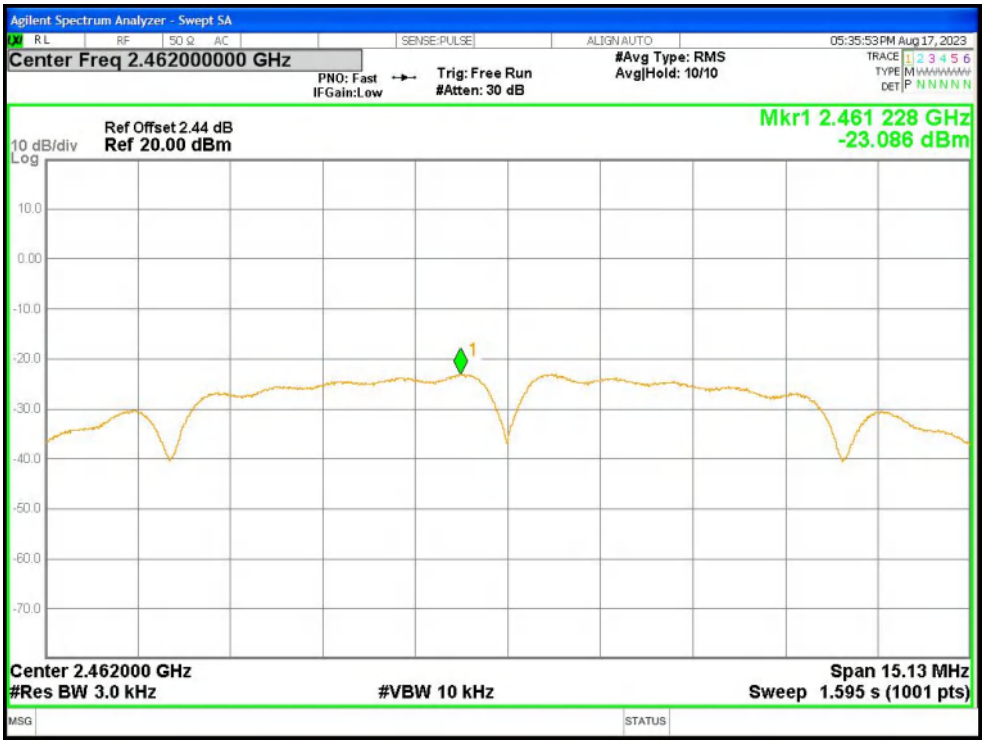


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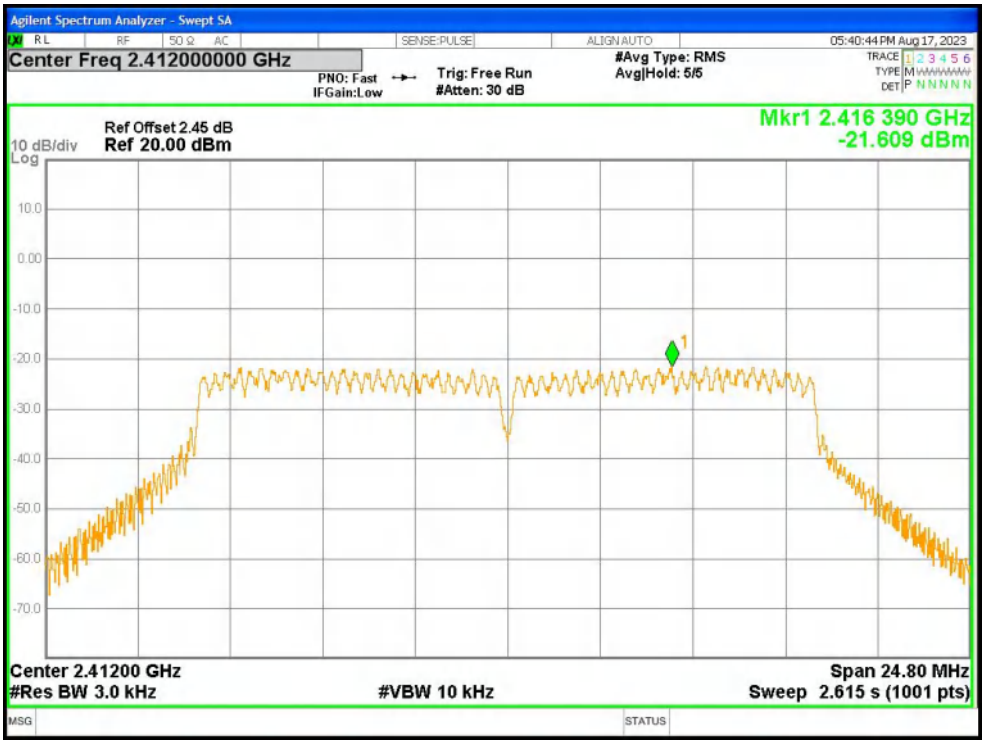
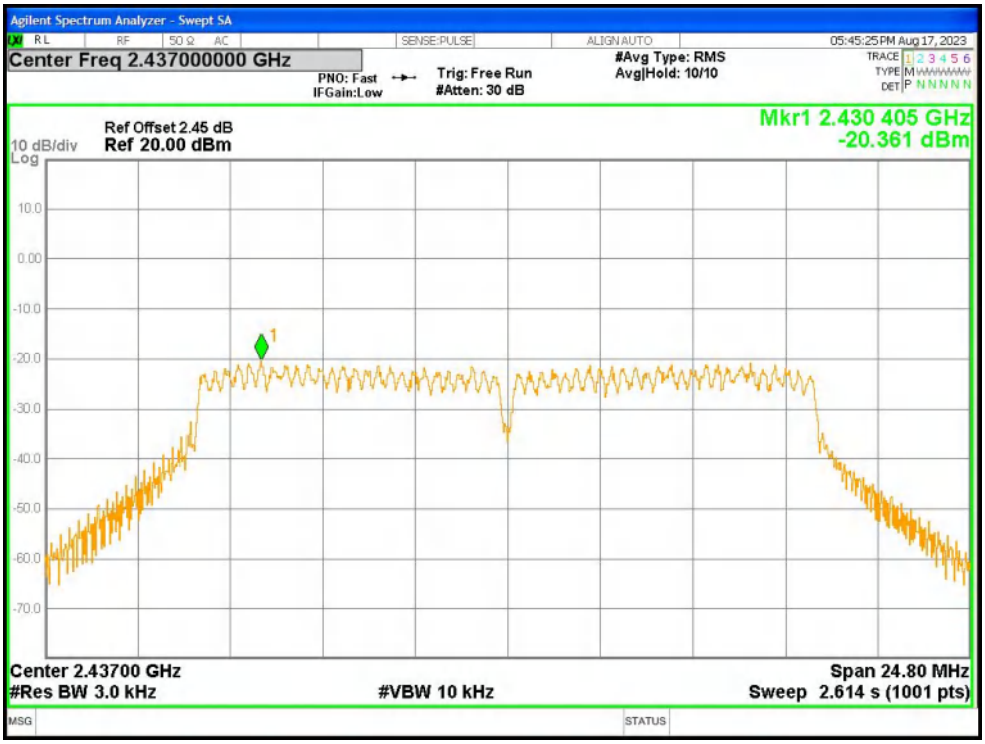



PSD NVNT g 2412MHz Ant1

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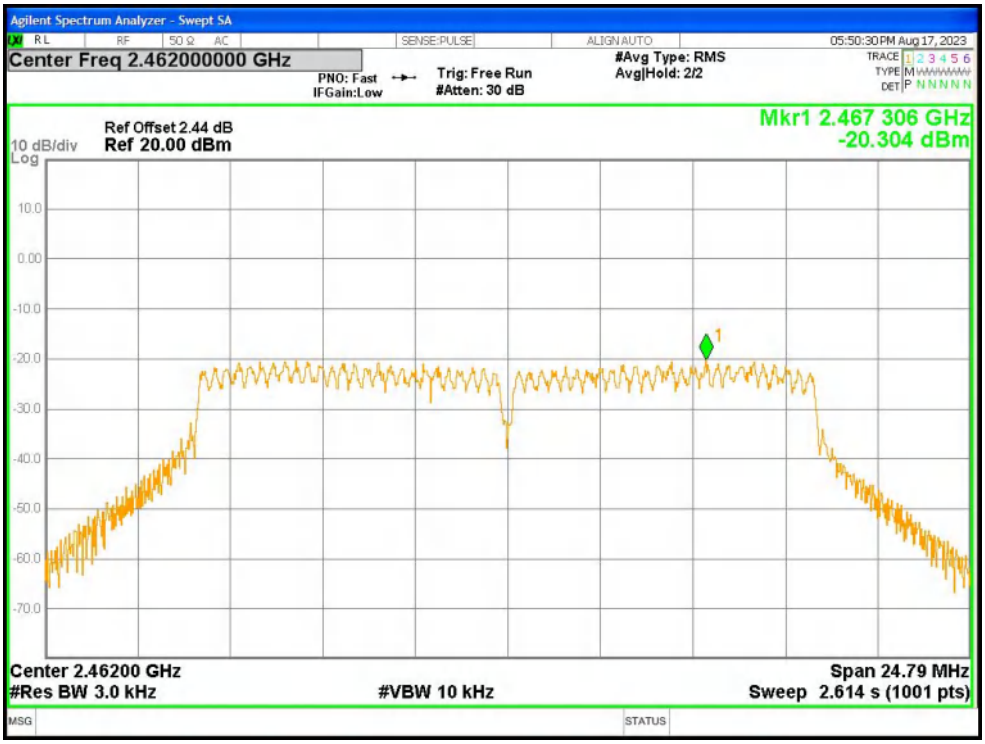
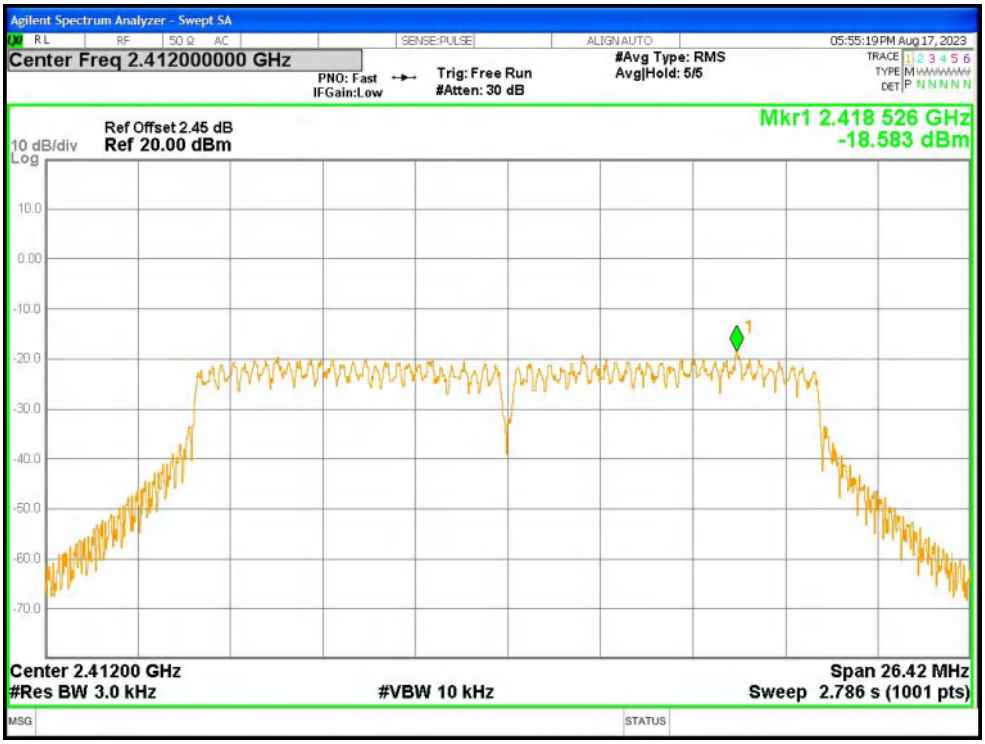
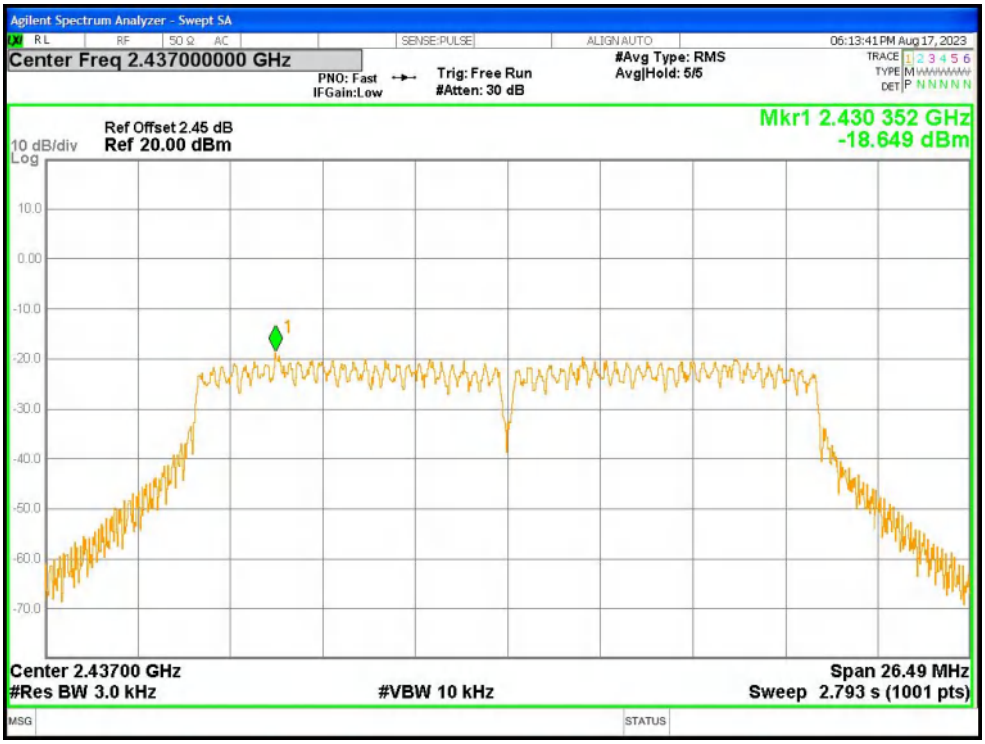


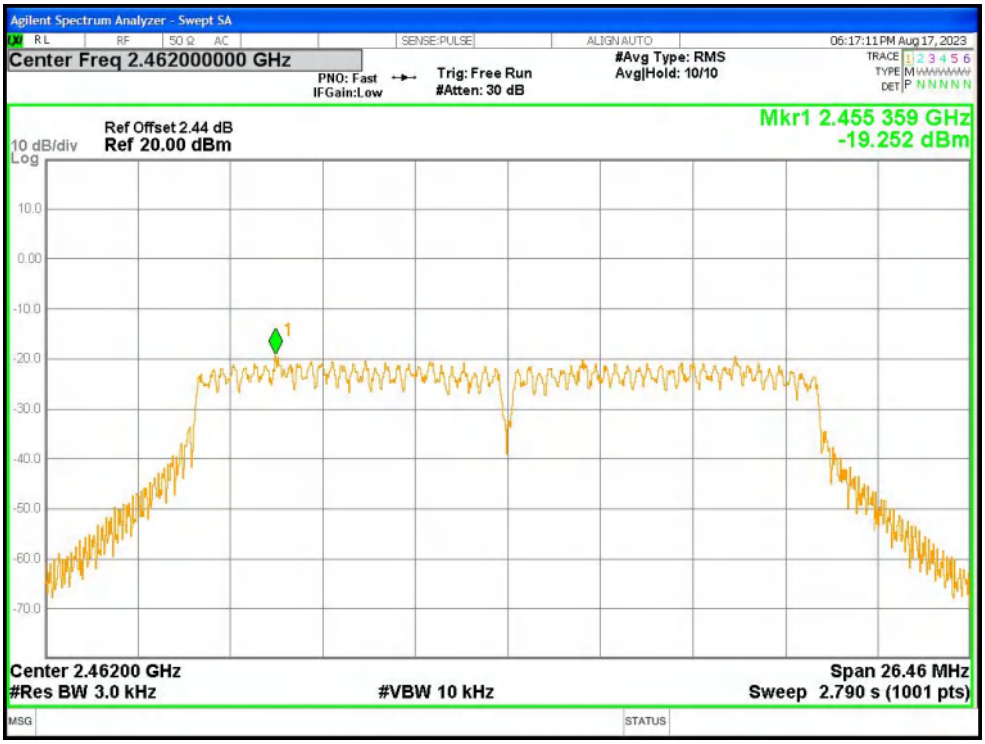

PSD NVNT g 2462MHz Ant1




PSD NVNT n20 2412MHz Ant1




PSD NVNT n20 2437MHz Ant1




PSD NVNT n20 2462MHz Ant1

## 7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | >= 500KHz (6dB bandwidth) | 2400-2483.5 | PASS |

### 7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 xRBW.
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.

### 7.3 DEVIATION FROM STANDARD

No deviation.

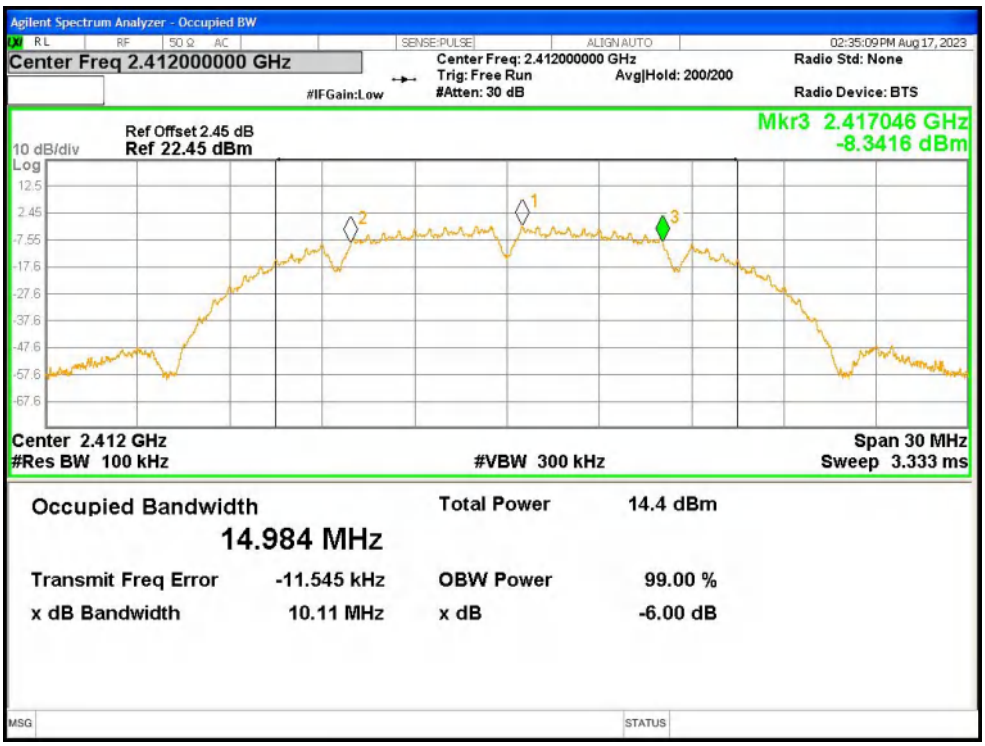
### 7.4 TEST SETUP

### 7.5 EUT OPERATION CONDITIONS

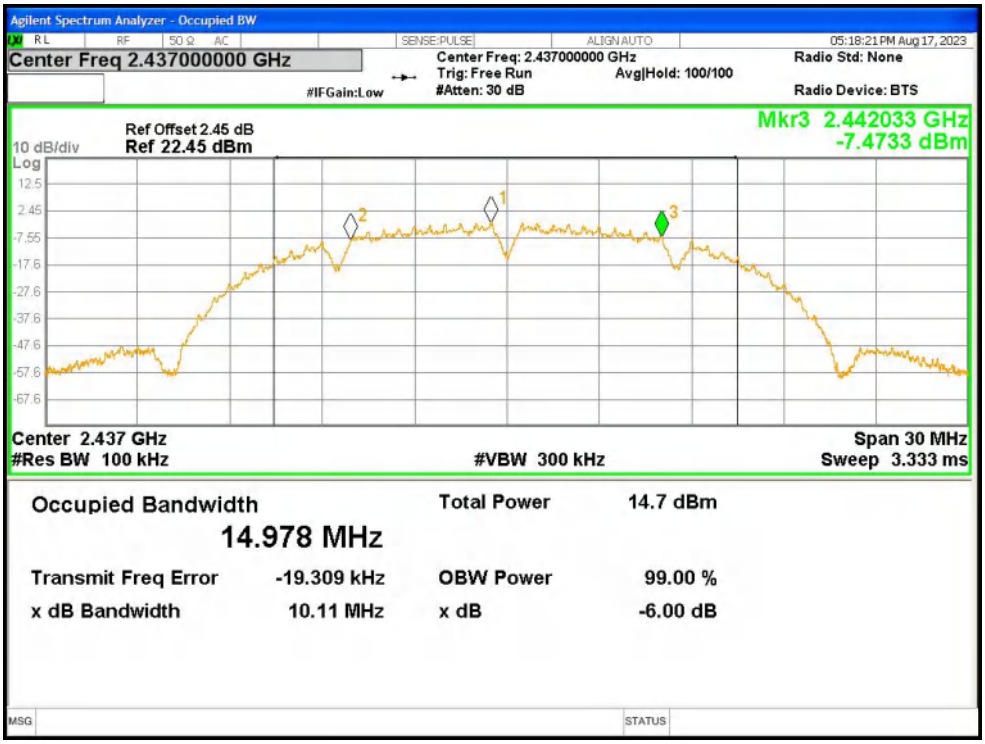
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 7.6 TEST RESULT

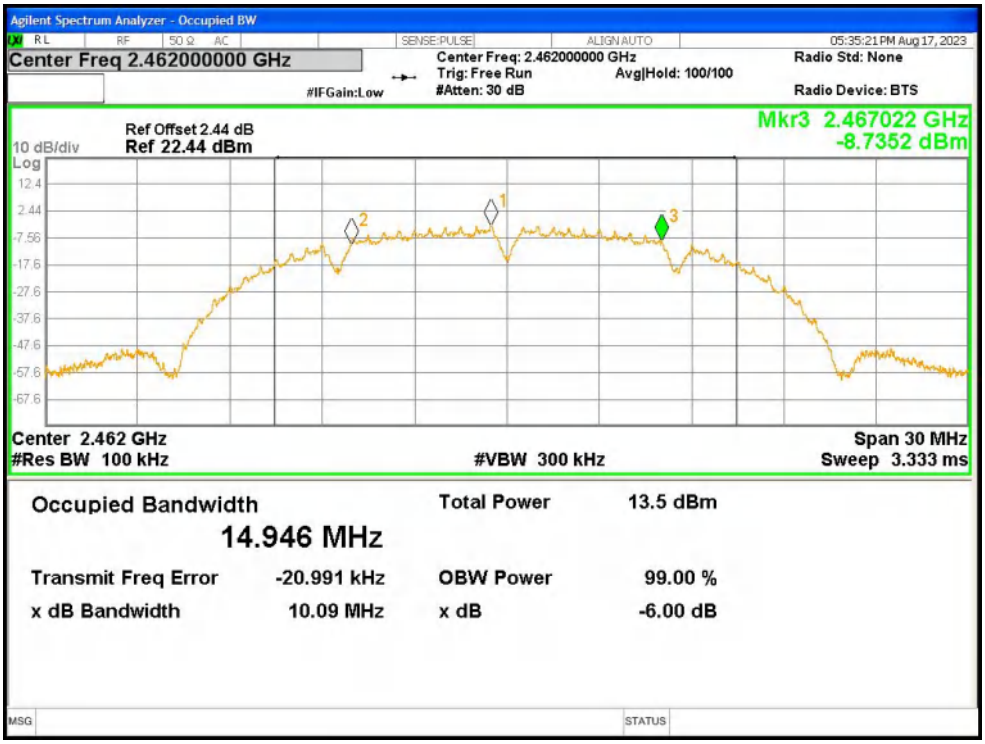
| Mode | Frequency (MHz) | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|
| b | 2412 | 10.114 | 0.5 | Pass |
| b | 2437 | 10.105 | 0.5 | Pass |
| b | 2462 | 10.087 | 0.5 | Pass |
| g | 2412 | 16.536 | 0.5 | Pass |
| g | 2437 | 16.53 | 0.5 | Pass |
| g | 2462 | 16.529 | 0.5 | Pass |
| n20 | 2412 | 17.613 | 0.5 | Pass |
| n20 | 2437 | 17.658 | 0.5 | Pass |
| n20 | 2462 | 17.639 | 0.5 | Pass |



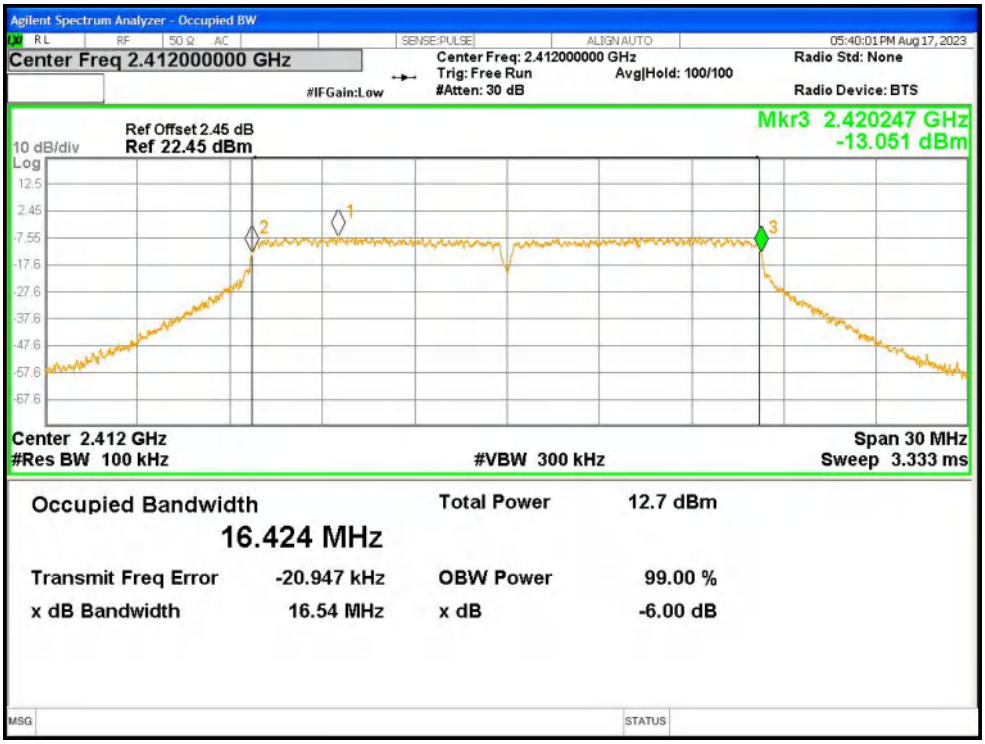

-6dB Bandwidth NVNT b 2412MHz Ant1



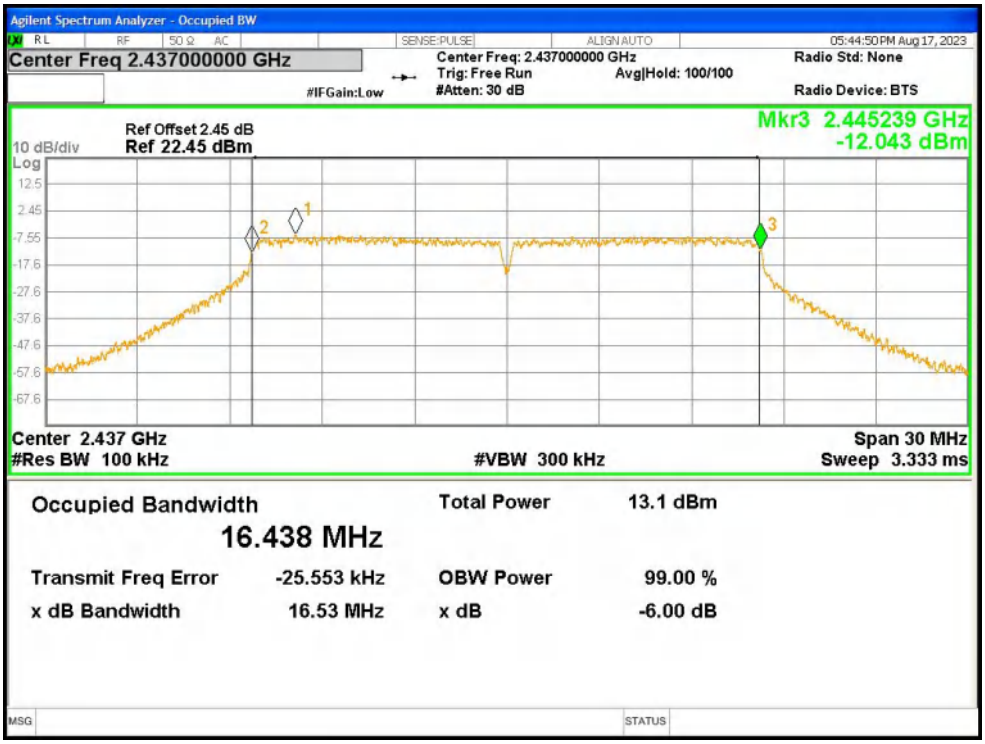

-6dB Bandwidth NVNT b 2437MHz Ant1



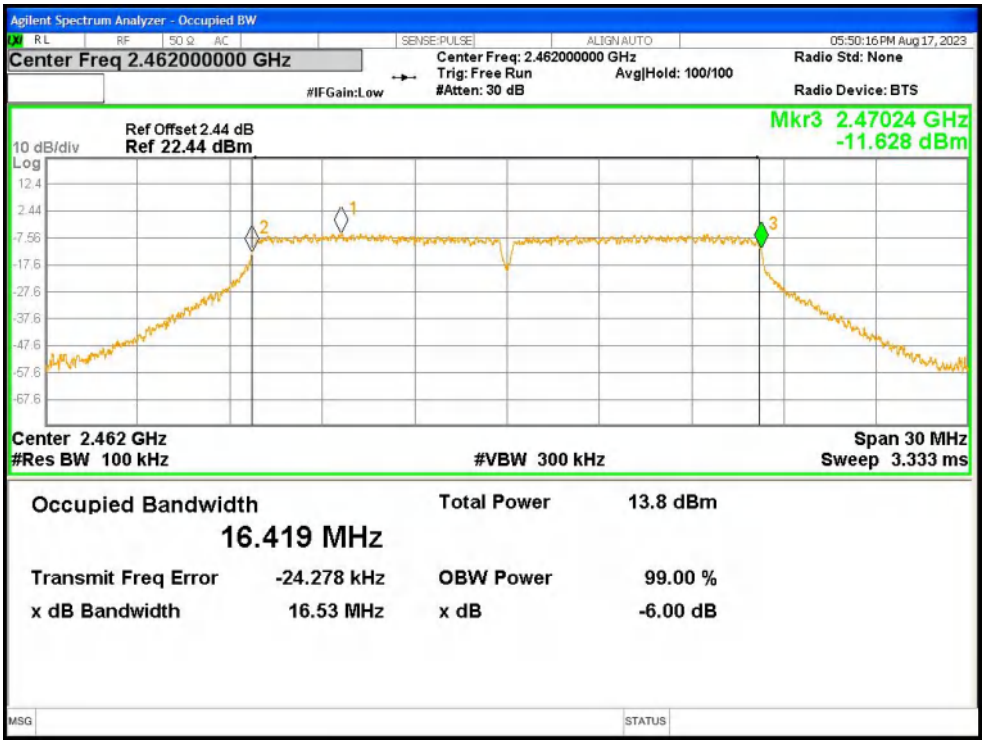

-6dB Bandwidth NVNT b 2462MHz Ant1



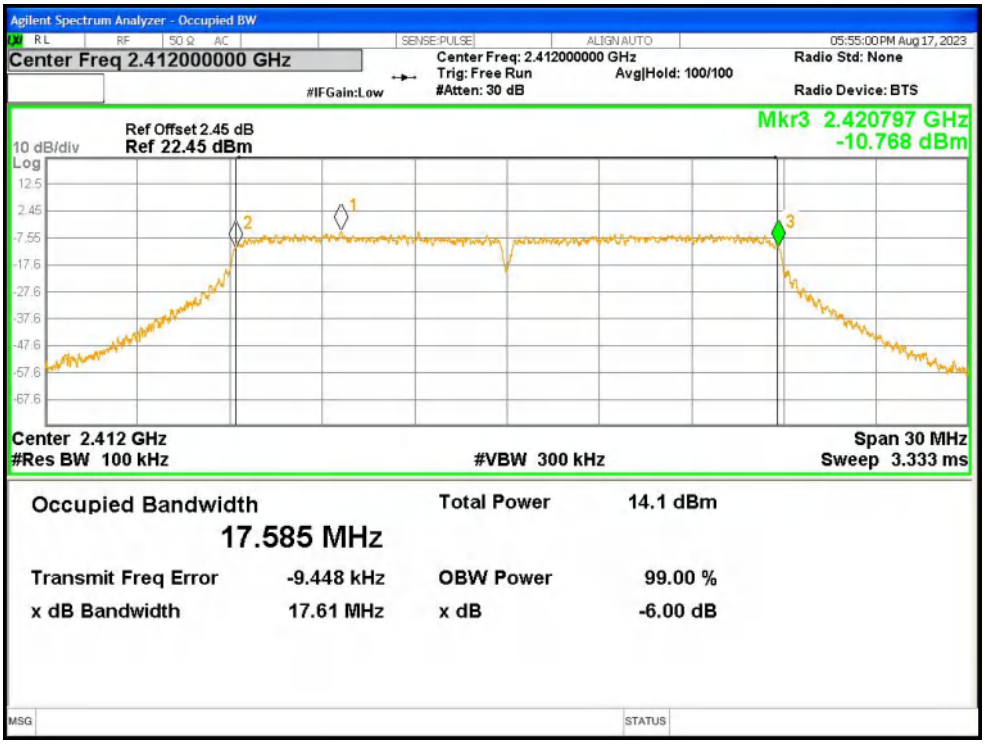

-6dB Bandwidth NVNT g 2412MHz Ant1



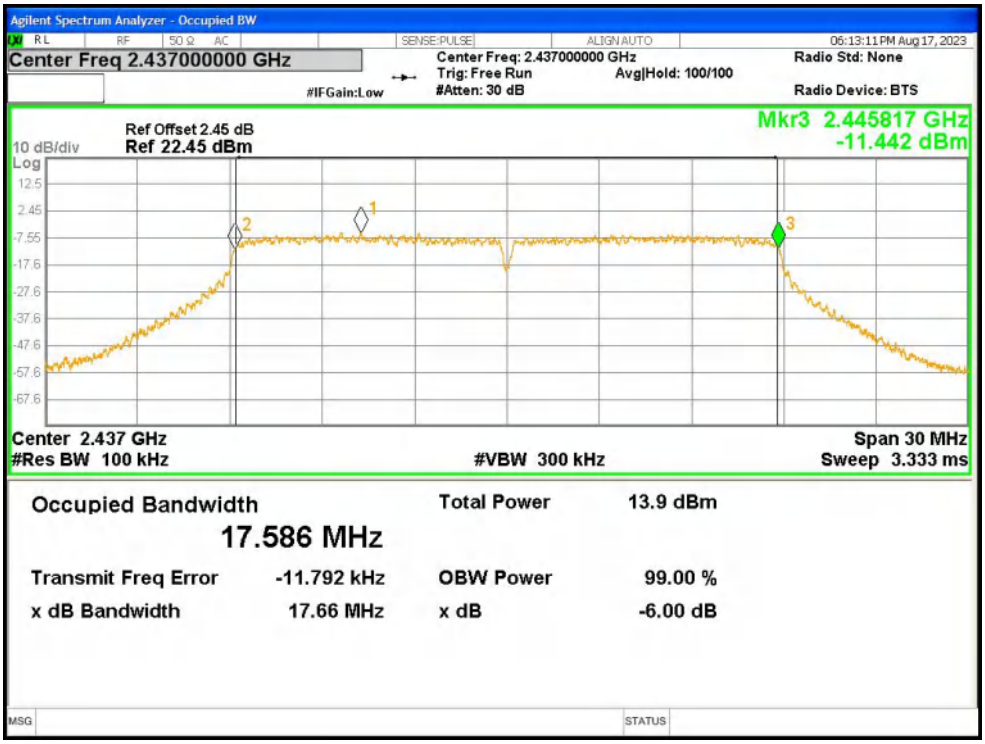

-6dB Bandwidth NVNT g 2437MHz Ant1



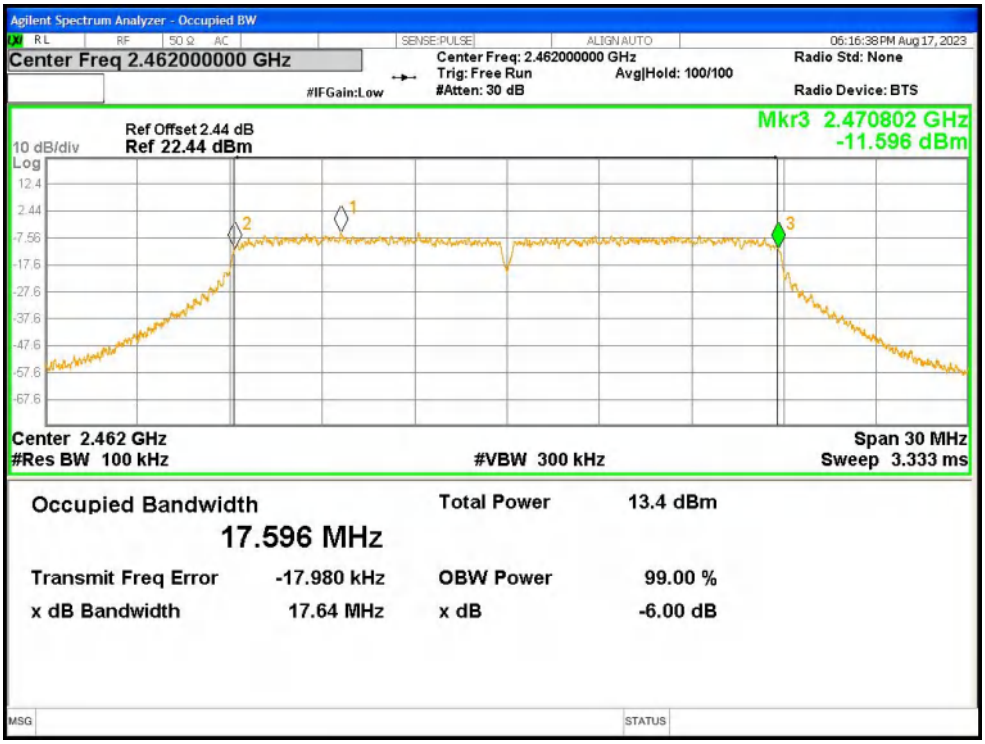

-6dB Bandwidth NVNT g 2462MHz Ant1




-6dB Bandwidth NVNT n20 2412MHz Ant1




-6dB Bandwidth NVNT n20 2437MHz Ant1




-6dB Bandwidth NVNT n20 2462MHz Ant1

## 8.PEAK OUTPUT POWER TEST

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 8.1 APPLIED PROCEDURES/LIMIT

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

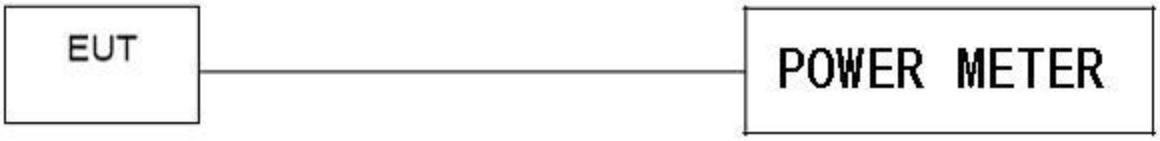
### 8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP




### 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 8.6 TEST RESULT

| Mode | Frequency (MHz) | Conducted Power (dBm) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| b | 2412 | 10.5 | 10.5 | 30 | Pass |
| b | 2437 | 10.99 | 10.99 | 30 | Pass |
| b | 2462 | 10.87 | 10.87 | 30 | Pass |
| g | 2412 | 10.06 | 10.06 | 30 | Pass |
| g | 2437 | 10.5 | 10.5 | 30 | Pass |
| g | 2462 | 11.18 | 11.18 | 30 | Pass |
| n20 | 2412 | 11.56 | 11.56 | 30 | Pass |
| n20 | 2437 | 10.76 | 10.76 | 30 | Pass |
| n20 | 2462 | 10.82 | 10.82 | 30 | Pass |

## 9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, 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 in15.209(a).

### 9.2 TEST PROCEDURE

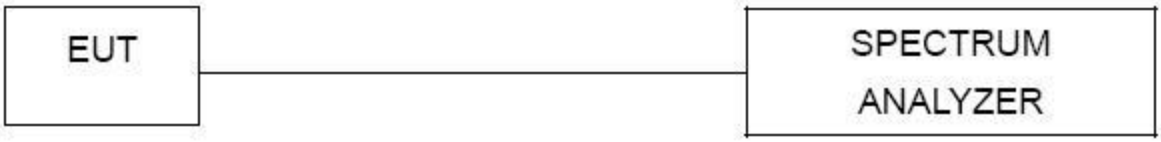
Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP

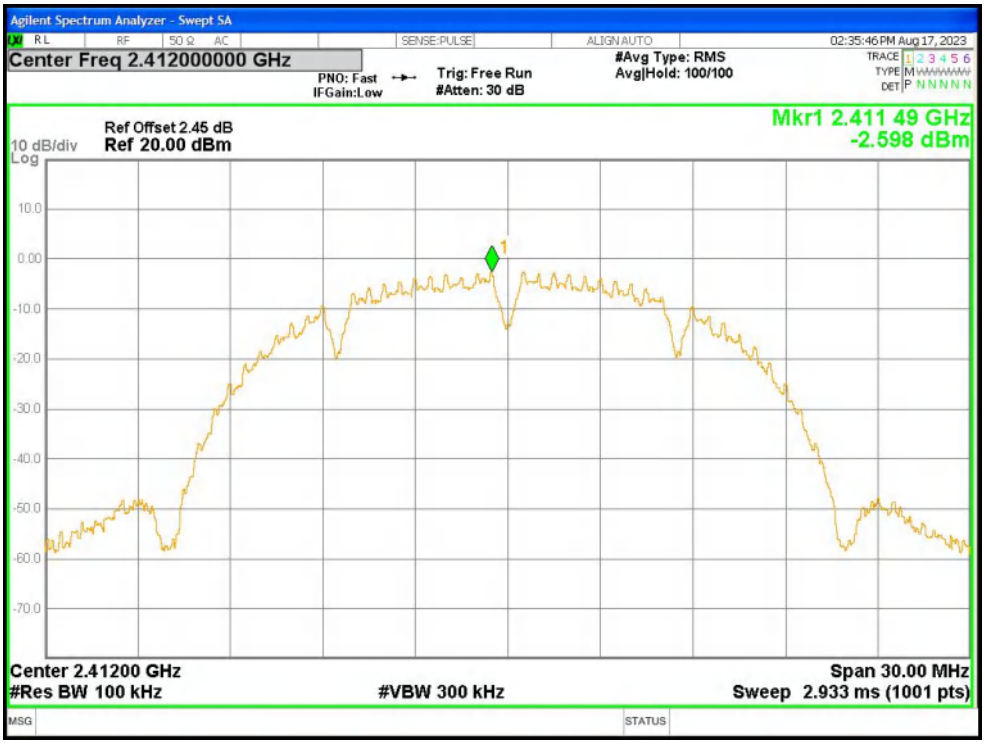



### 9.5 EUT OPERATION CONDITIONS

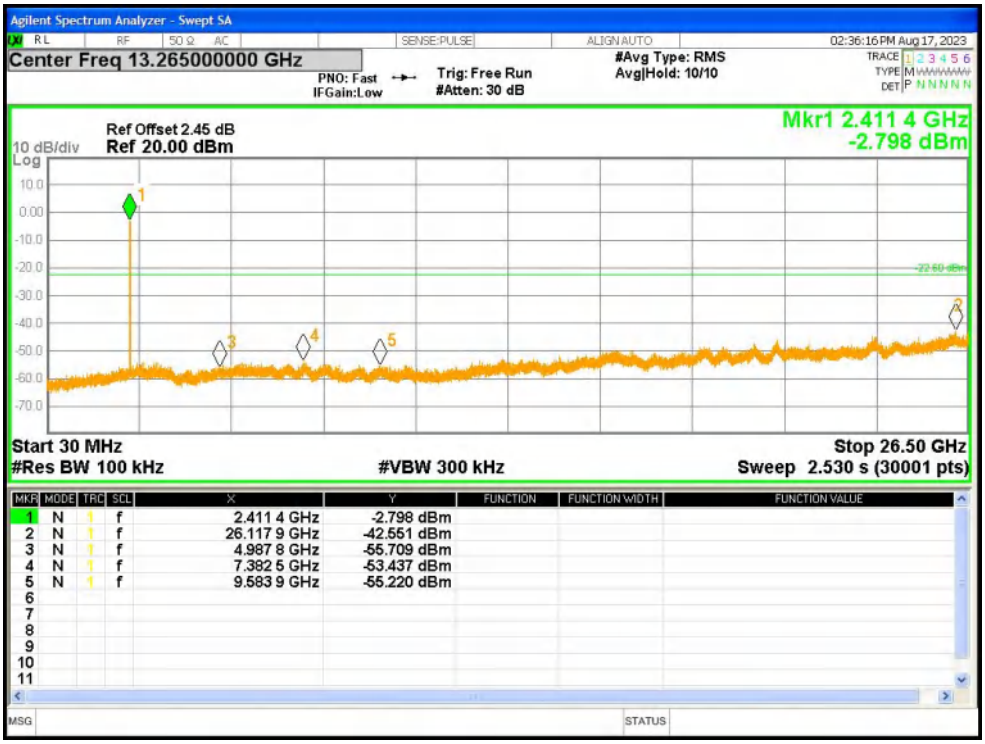
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 9.6 TEST RESULTS

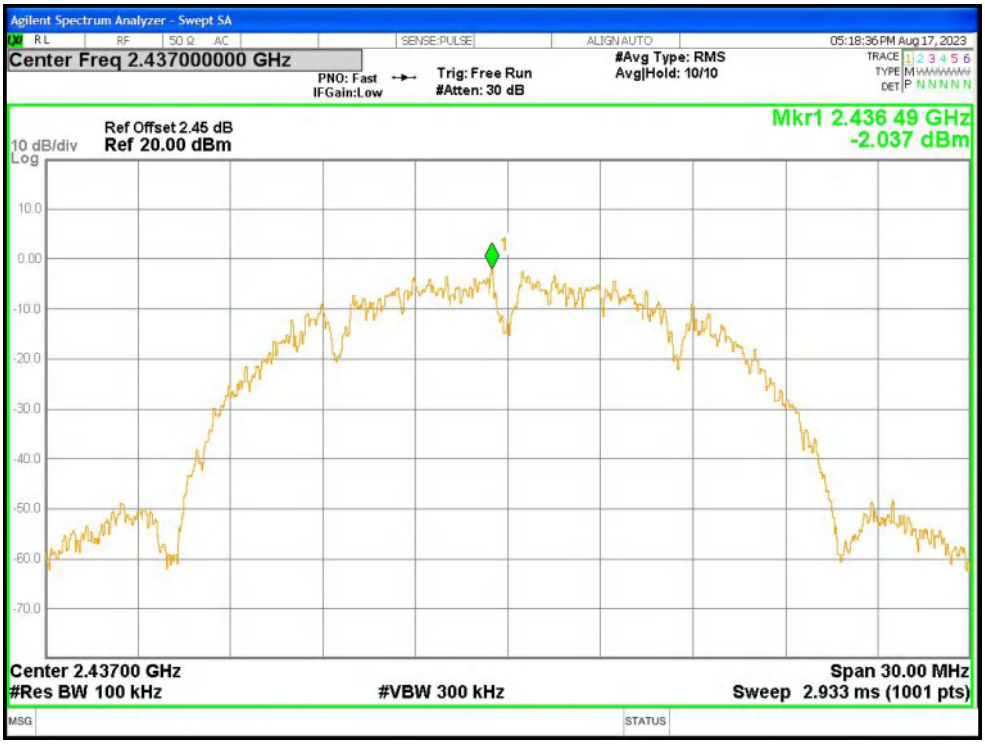
| Mode | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|
| b | 2412 | -39.95 | -20 | Pass |
| b | 2437 | -41.32 | -20 | Pass |
| b | 2462 | -40.24 | -20 | Pass |
| g | 2412 | -36.09 | -20 | Pass |
| g | 2437 | -36.5 | -20 | Pass |
| g | 2462 | -37 | -20 | Pass |
| n20 | 2412 | -36.3 | -20 | Pass |
| n20 | 2437 | -35.61 | -20 | Pass |
| n20 | 2462 | -36.87 | -20 | Pass |



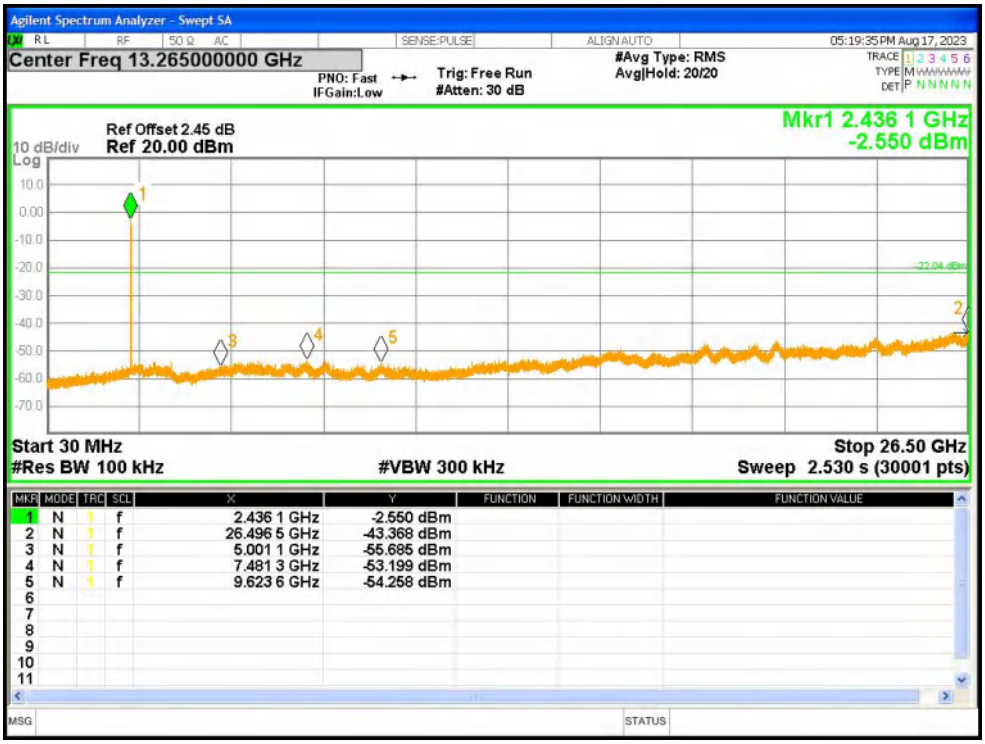

Tx. Spurious NVNT b 2412MHz Ant1 Ref



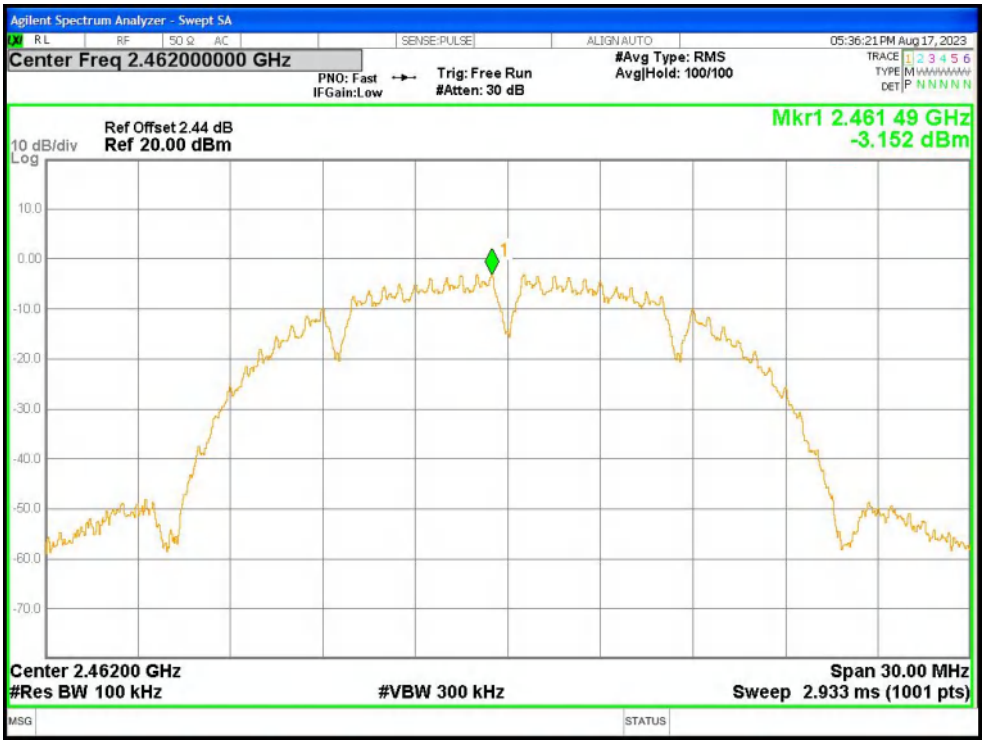

Tx. Spurious NVNT b 2412MHz Ant1 Emission



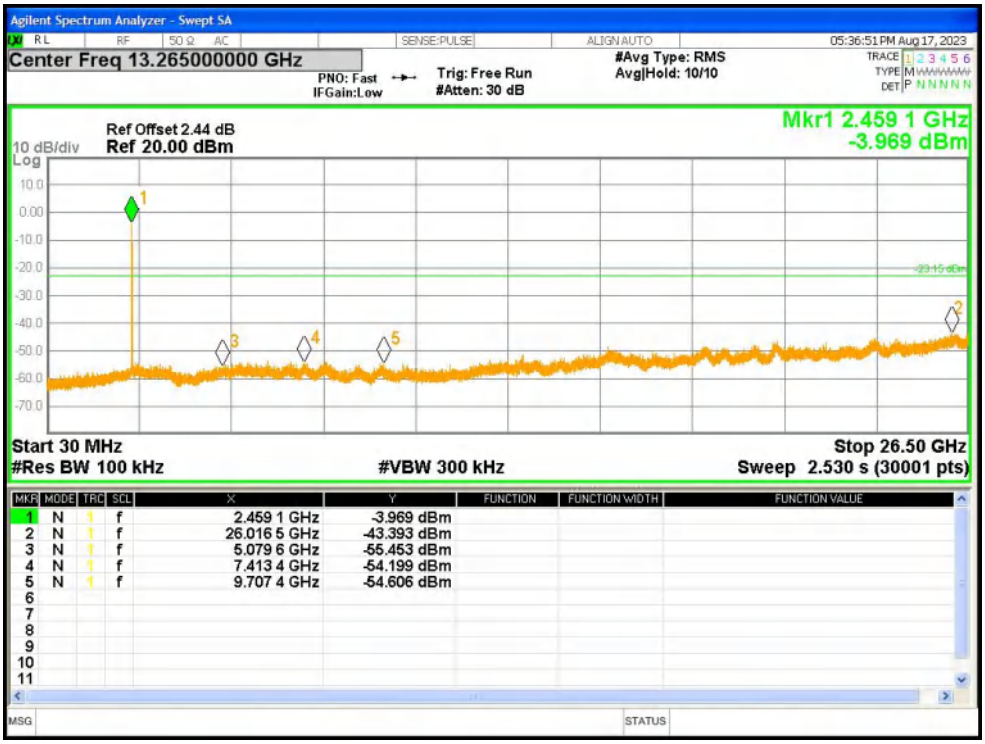

Tx. Spurious NVNT b 2437MHz Ant1 Ref



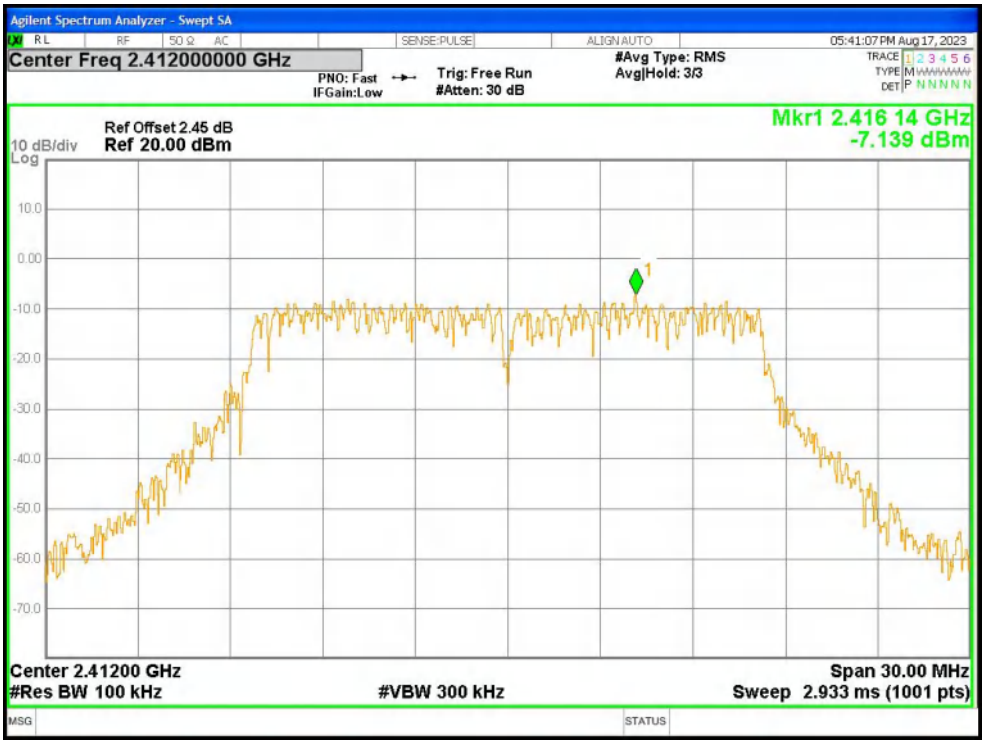

Tx. Spurious NVNT b 2437MHz Ant1 Emission



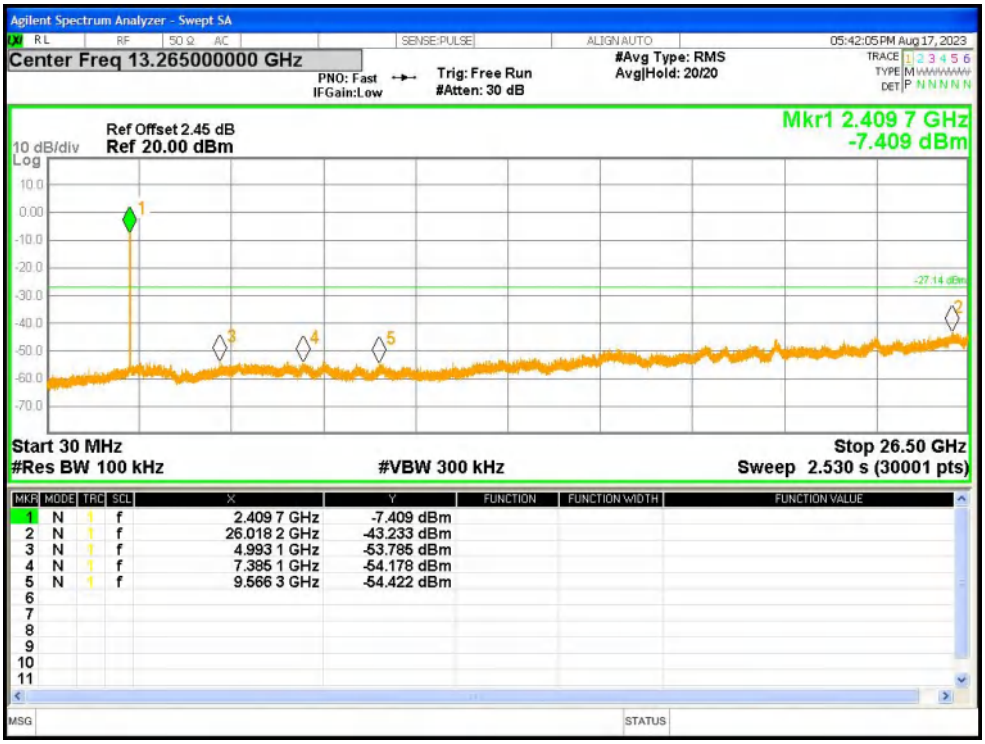

Tx. Spurious NVNT b 2462MHz Ant1 Ref



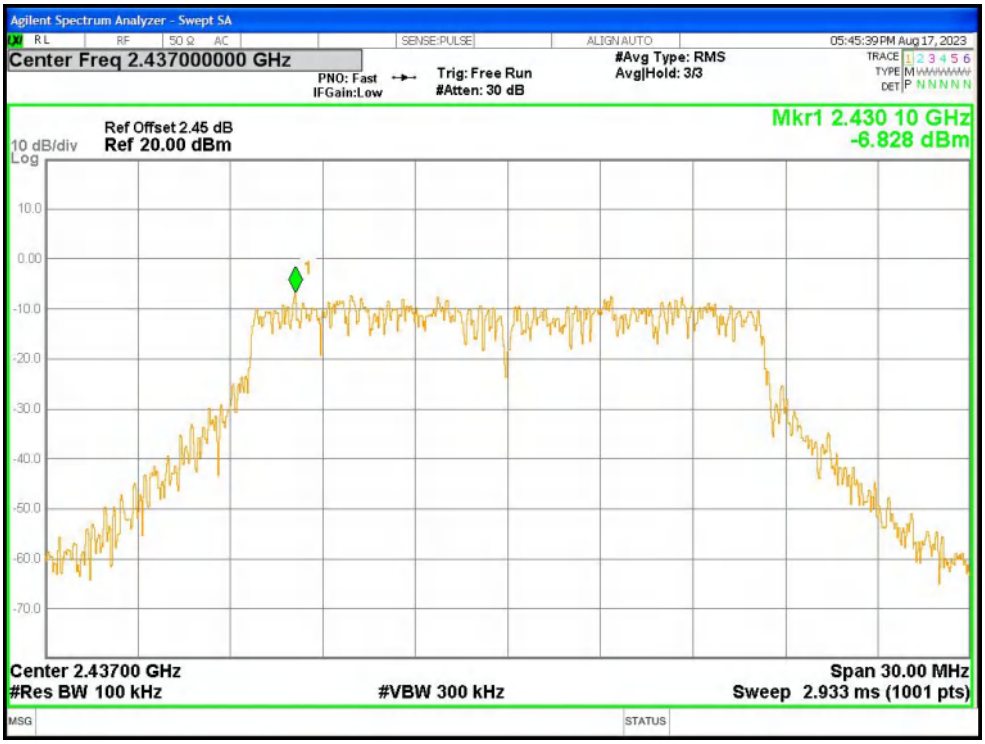

Tx. Spurious NVNT b 2462MHz Ant1 Emission



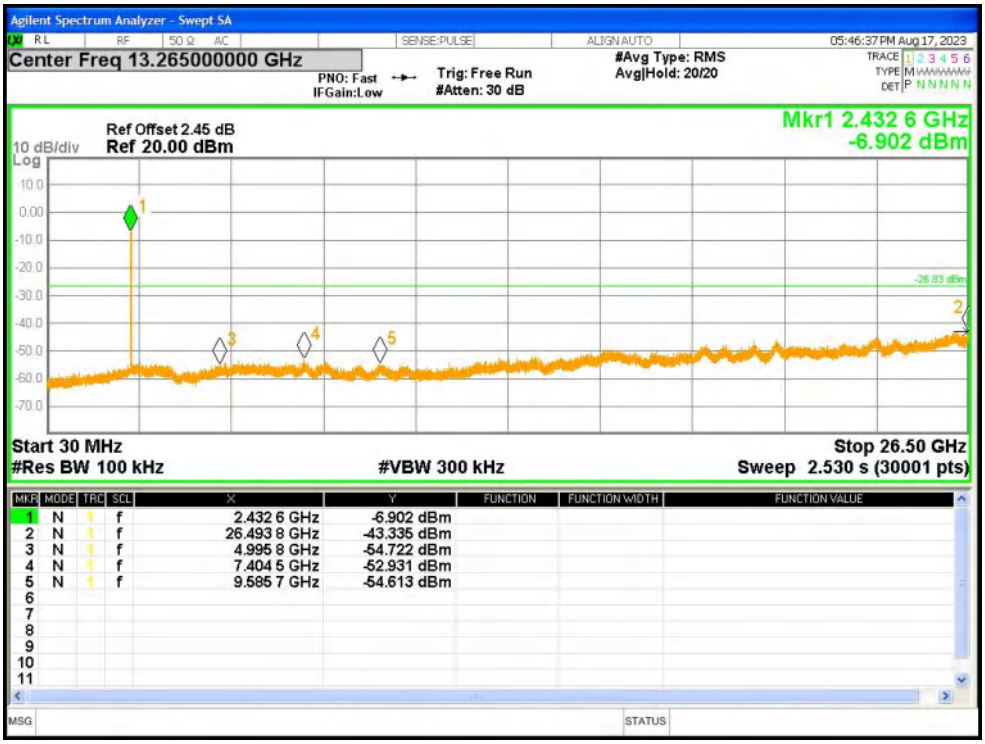

Tx. Spurious NVNT g 2412MHz Ant1 Ref



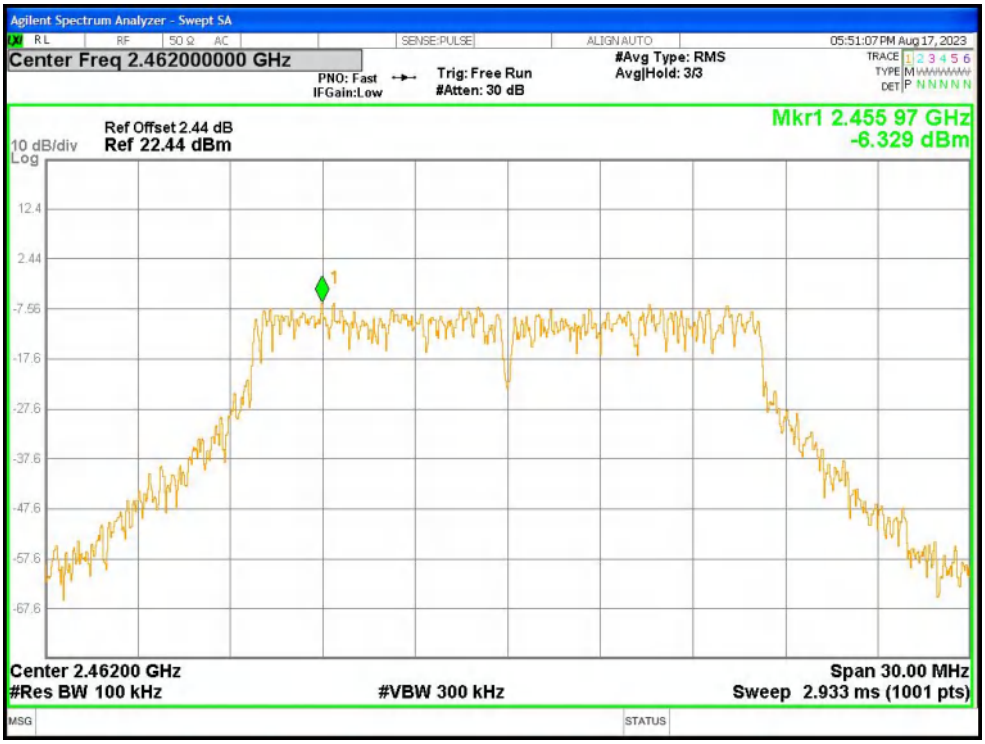

Tx. Spurious NVNT g 2412MHz Ant1 Emission



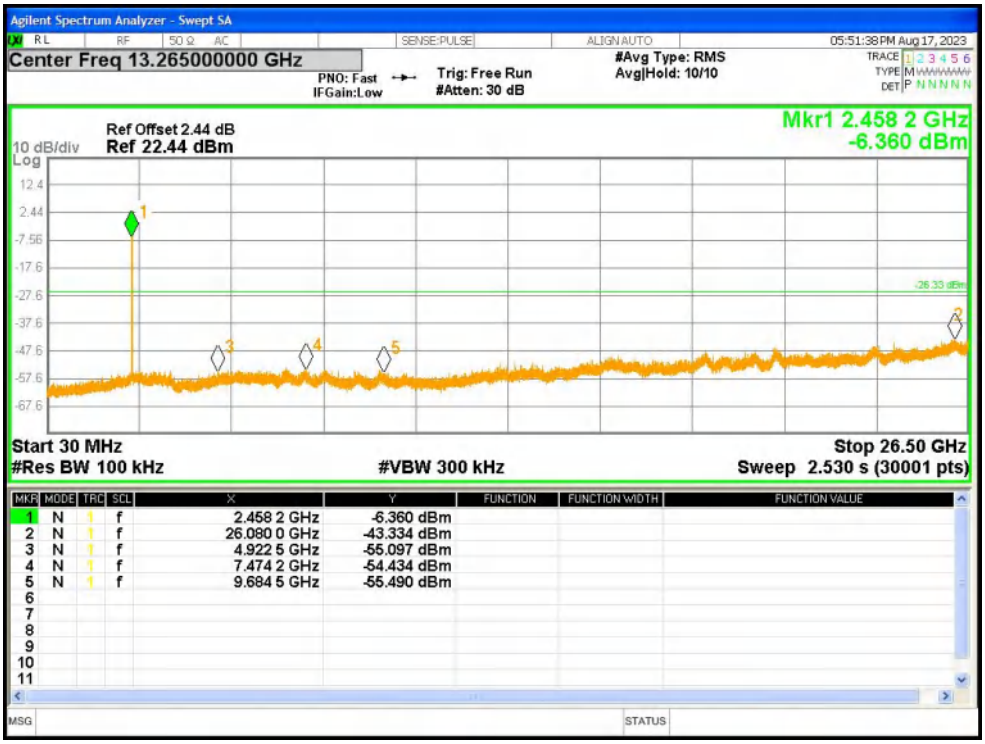

Tx. Spurious NVNT g 2437MHz Ant1 Ref



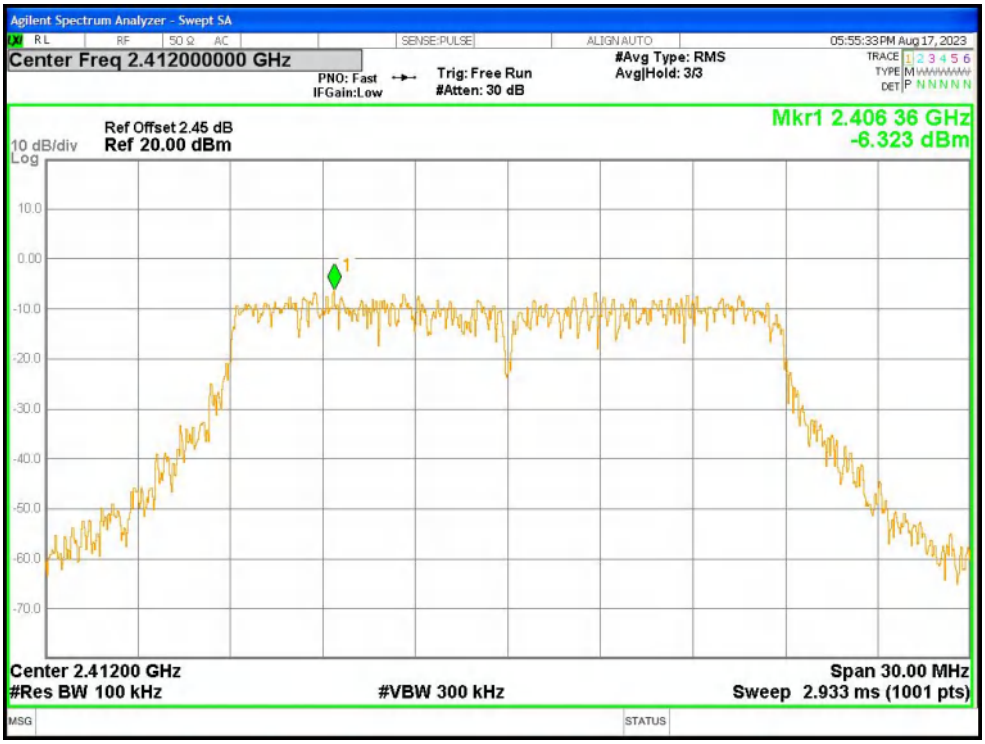

Tx. Spurious NVNT g 2437MHz Ant1 Emission



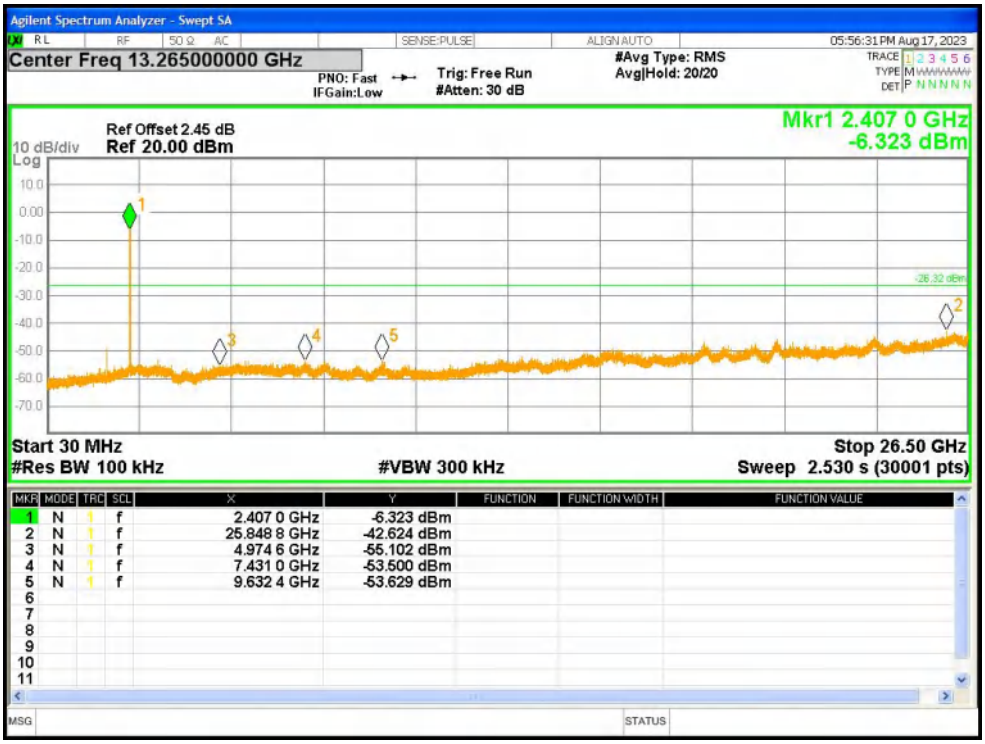

Tx. Spurious NVNT g 2462MHz Ant1 Ref



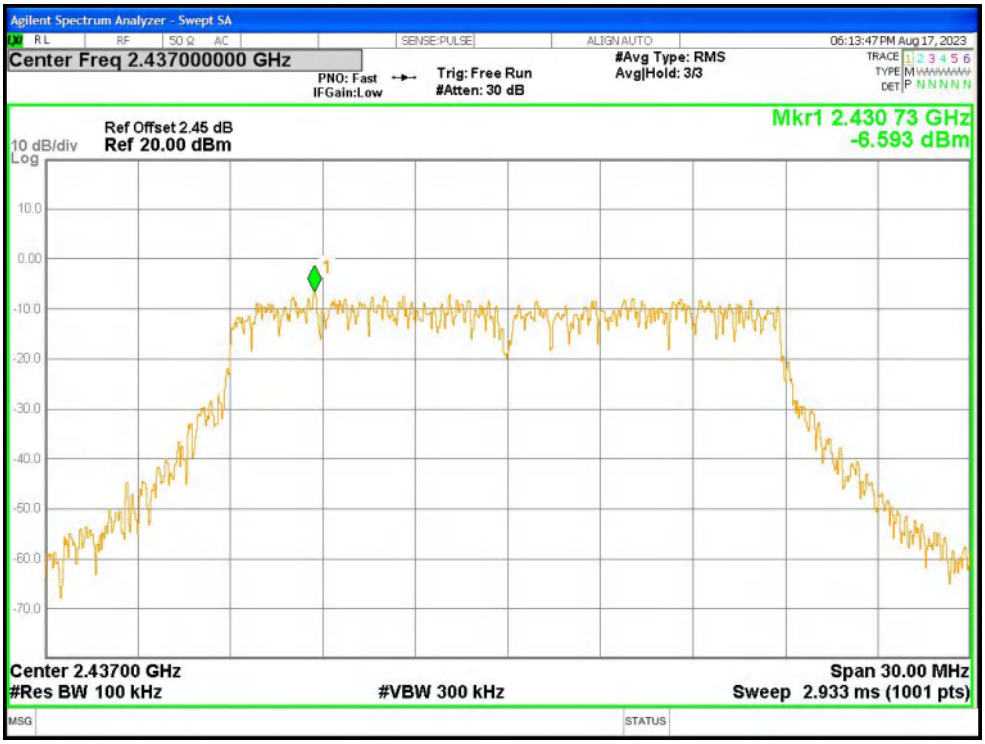

Tx. Spurious NVNT g 2462MHz Ant1 Emission



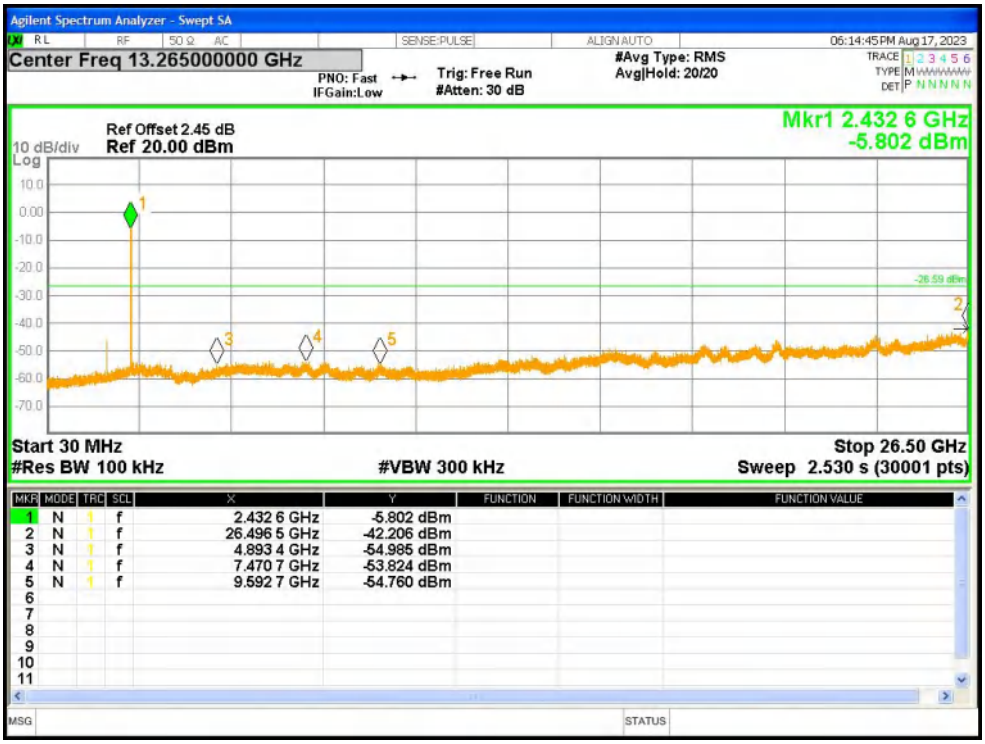

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



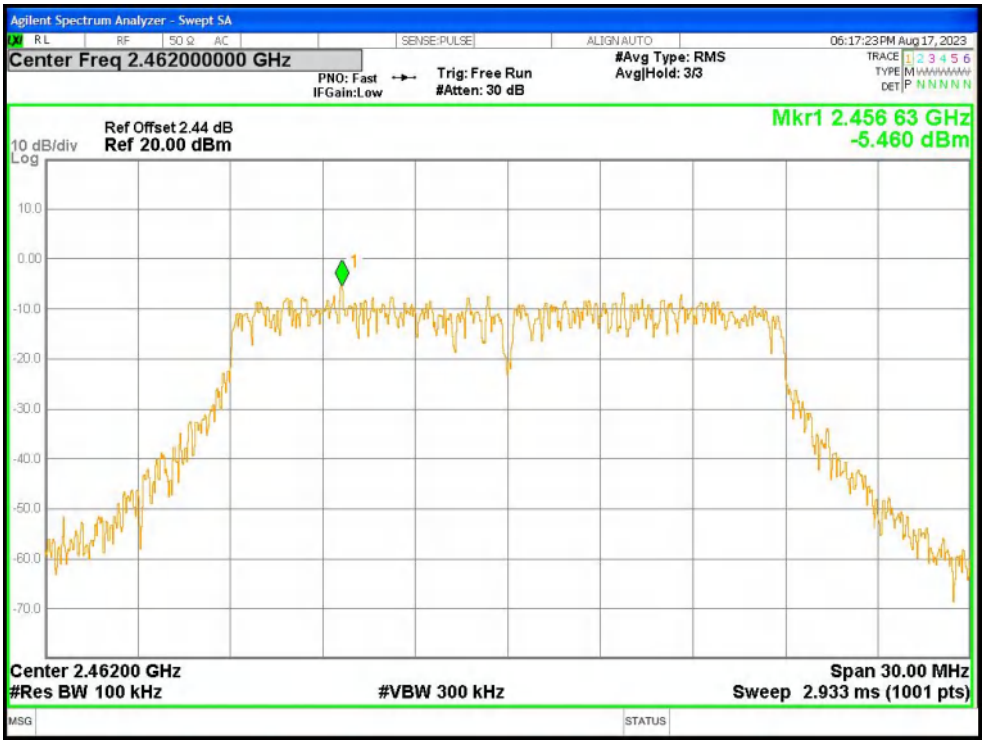

Tx. Spurious NVNT n20 2412MHz Ant1 Emission



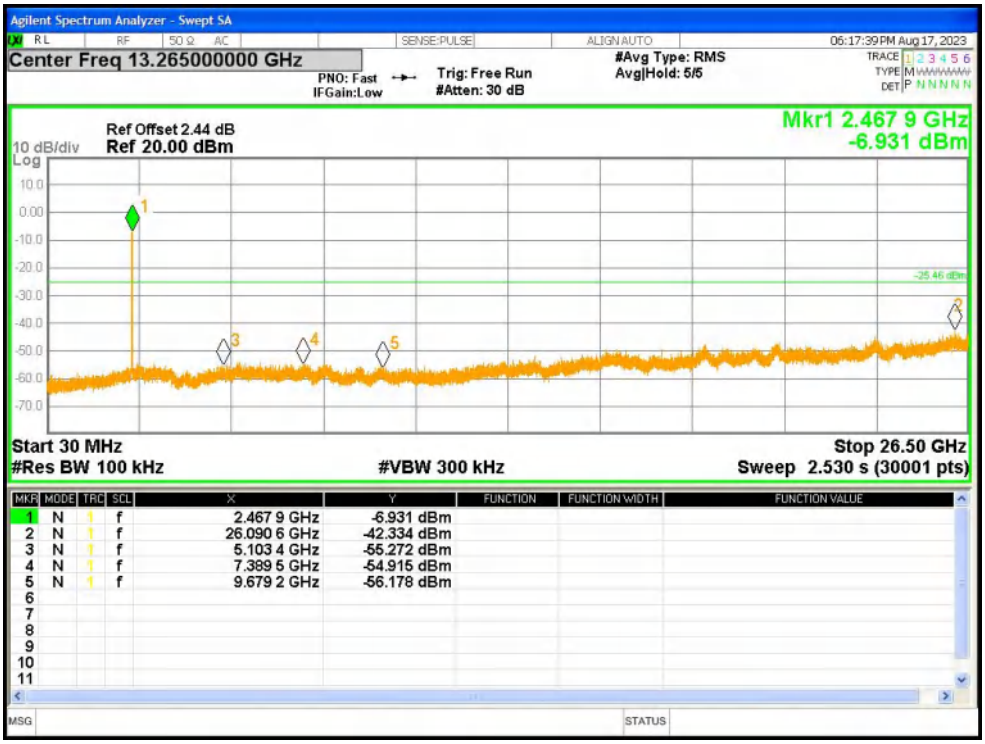

Tx. Spurious NVNT n20 2437MHz Ant1 Ref




Tx. Spurious NVNT n20 2437MHz Ant1 Emission

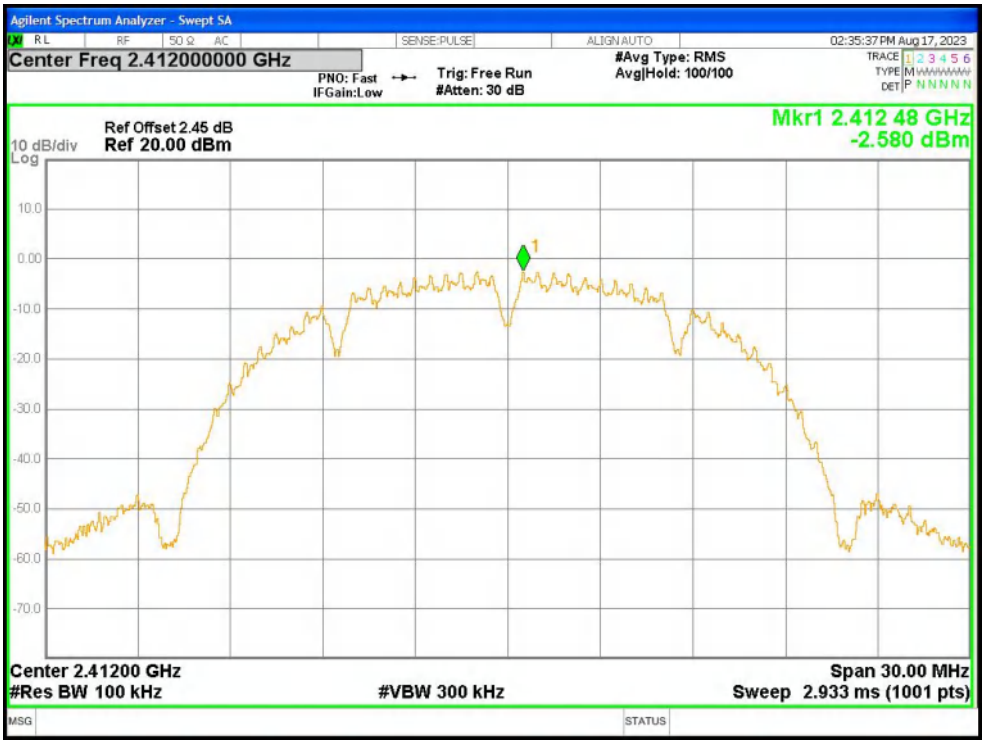



Tx. Spurious NVNT n20 2462MHz Ant1 Ref

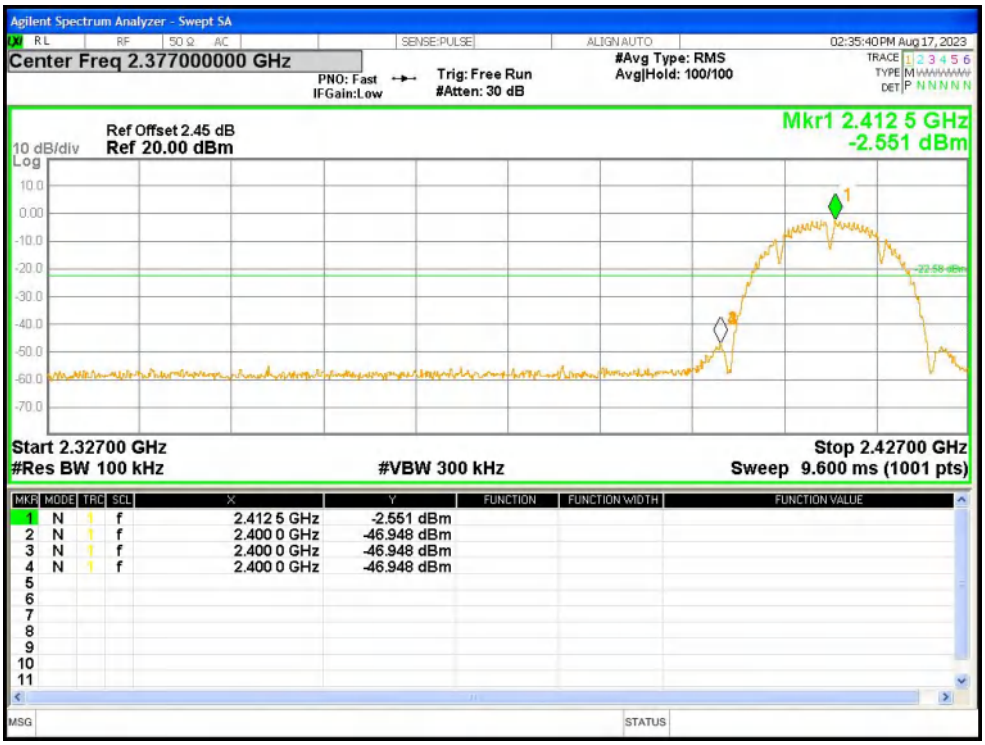



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

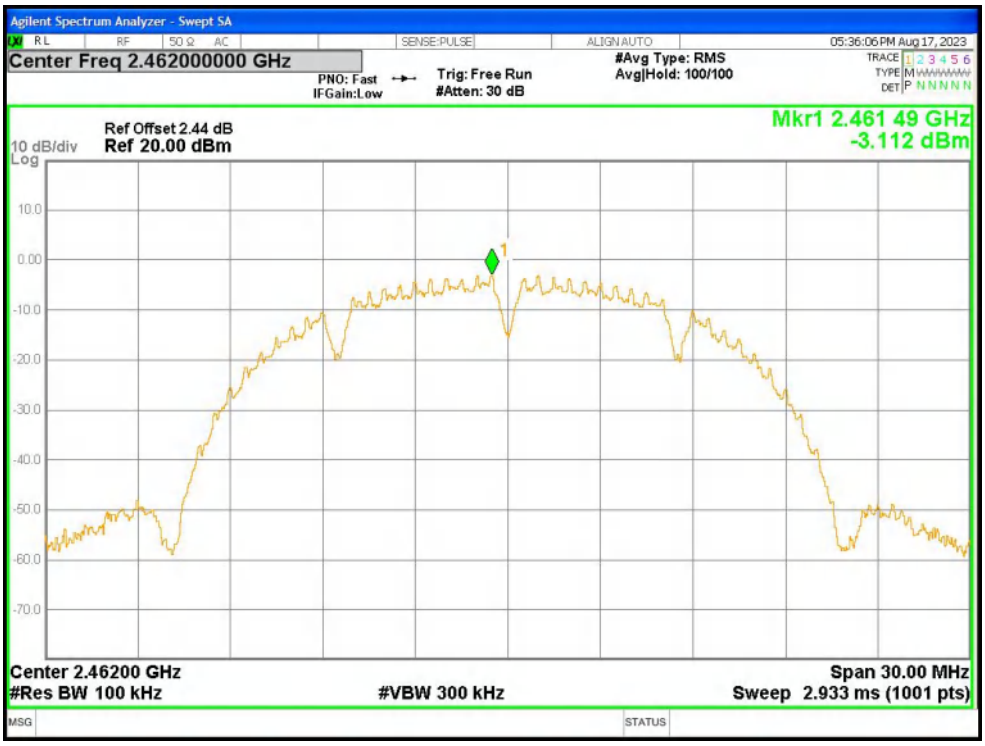
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|
| b | 2412 | Ant1 | -44.36 | -20 | Pass |
| b | 2462 | Ant1 | -52.99 | -20 | Pass |
| g | 2412 | Ant1 | -38.92 | -20 | Pass |
| g | 2462 | Ant1 | -49.33 | -20 | Pass |
| n20 | 2412 | Ant1 | -36.01 | -20 | Pass |
| n20 | 2462 | Ant1 | -49.71 | -20 | Pass |



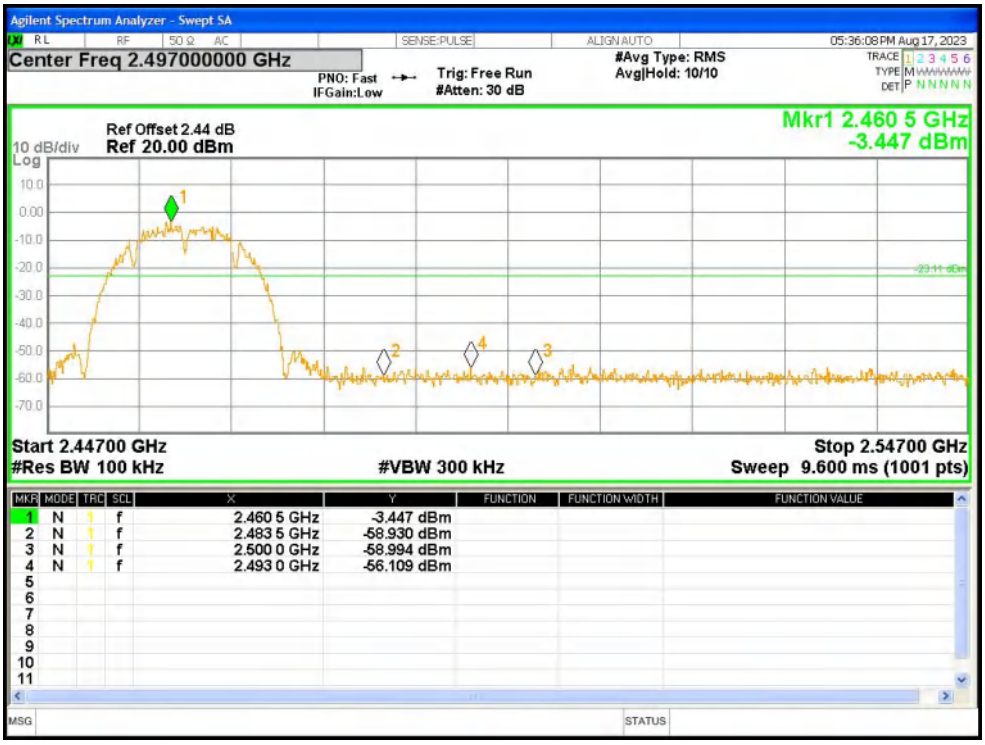

Band Edge NVNT b 2412MHz Ant1 Ref



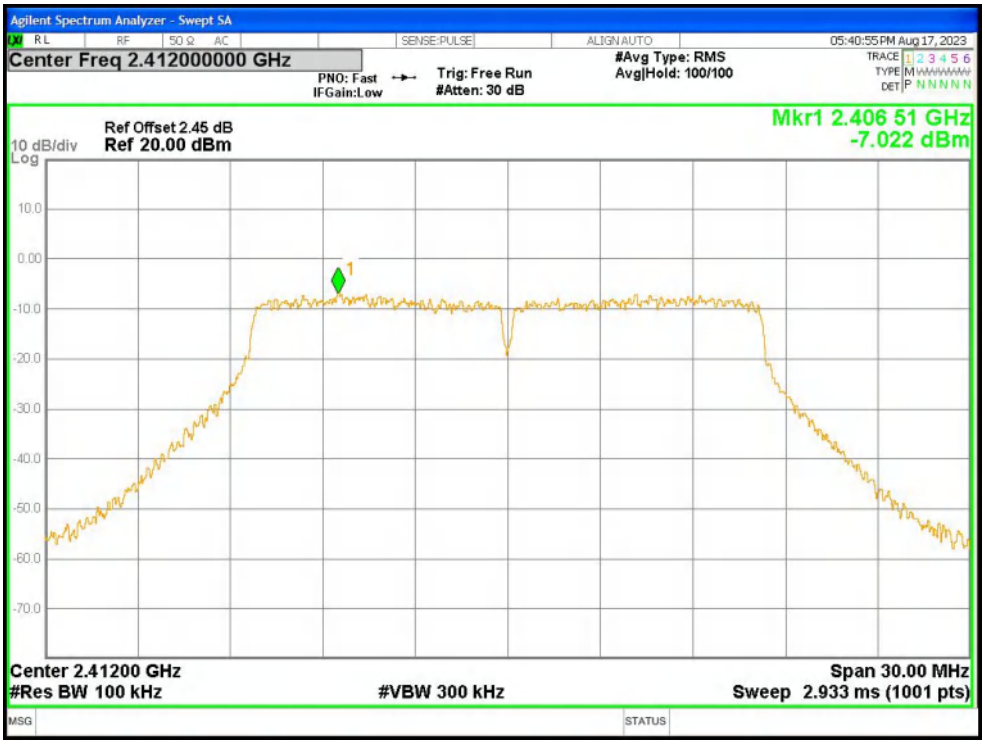

Band Edge NVNT b 2412MHz Ant1 Emission



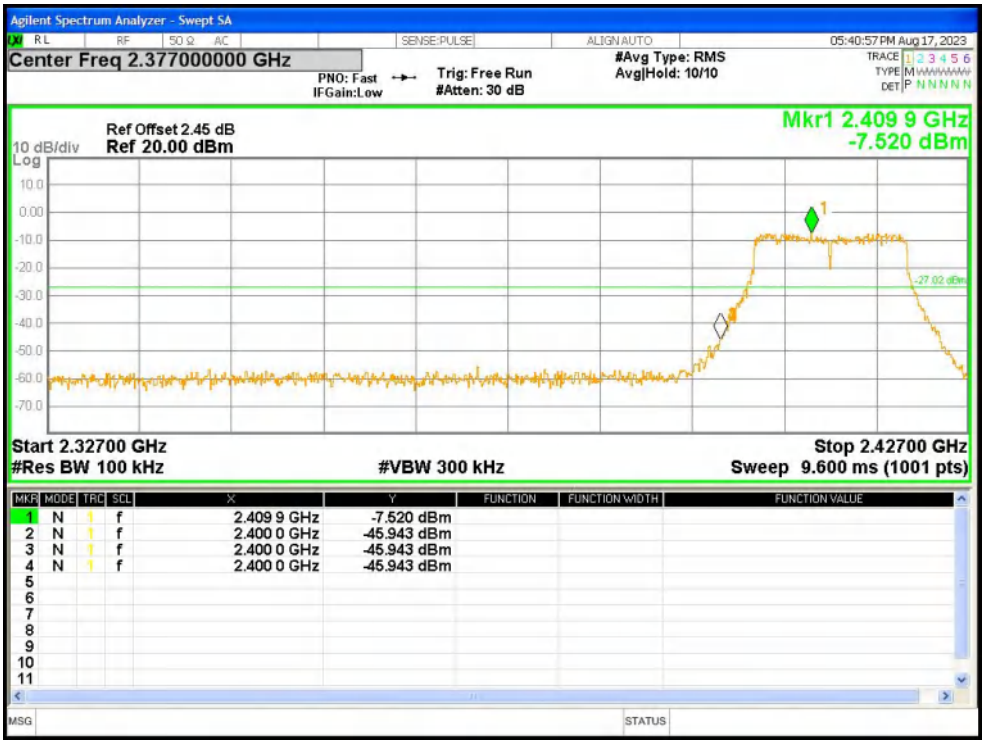

Band Edge NVNT b 2462MHz Ant1 Ref



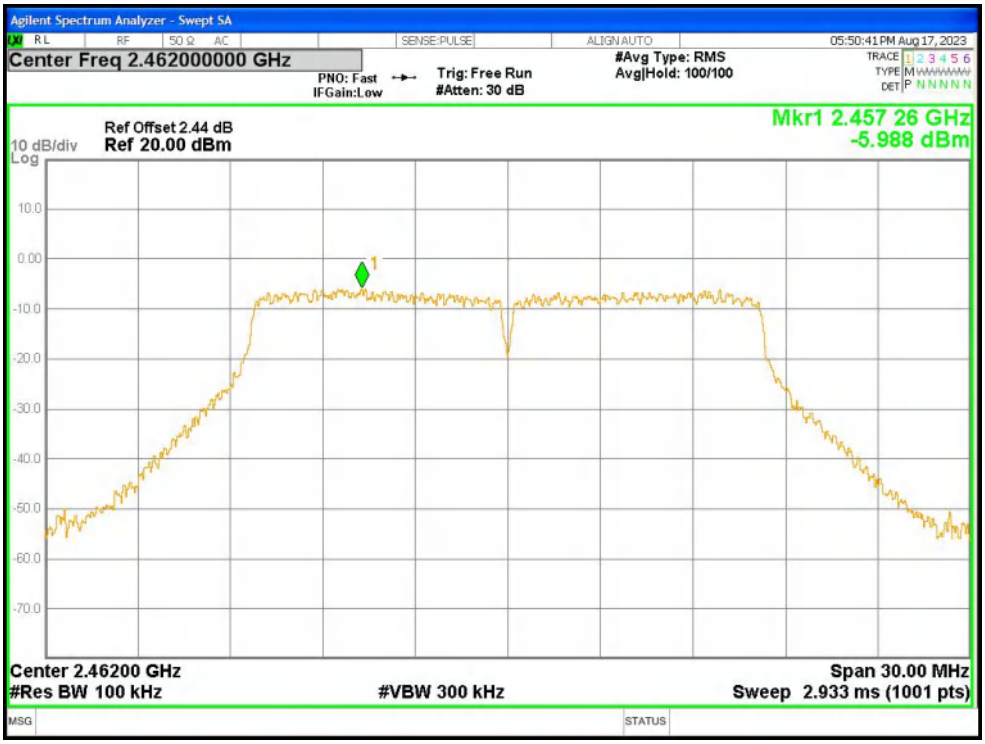

Band Edge NVNT b 2462MHz Ant1 Emission



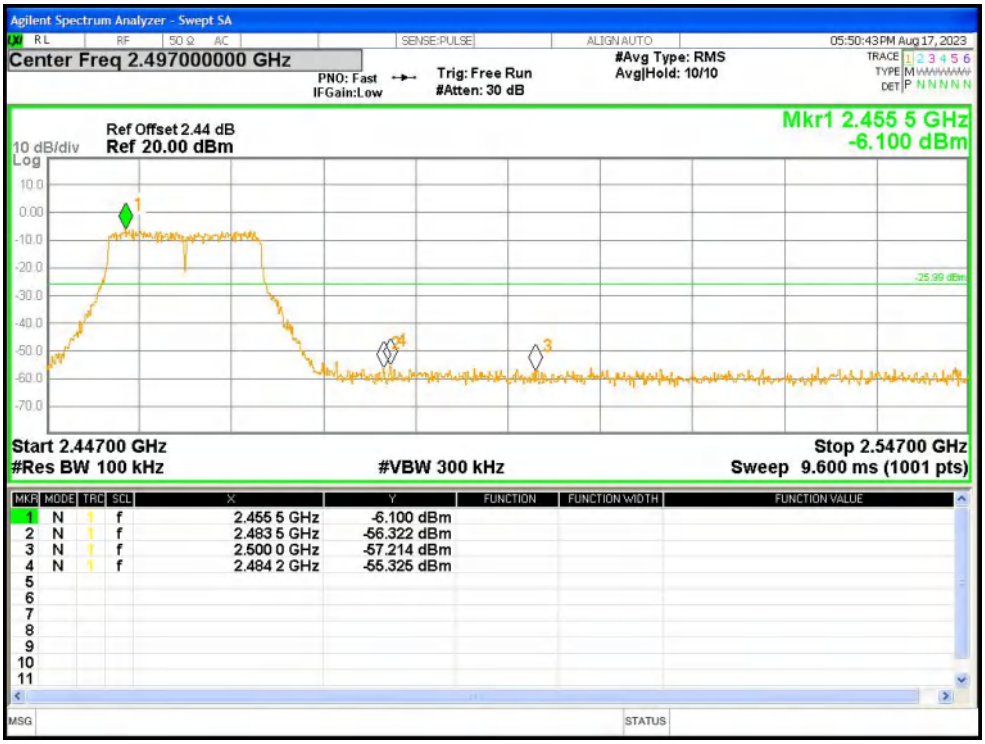

Band Edge NVNT g 2412MHz Ant1 Ref



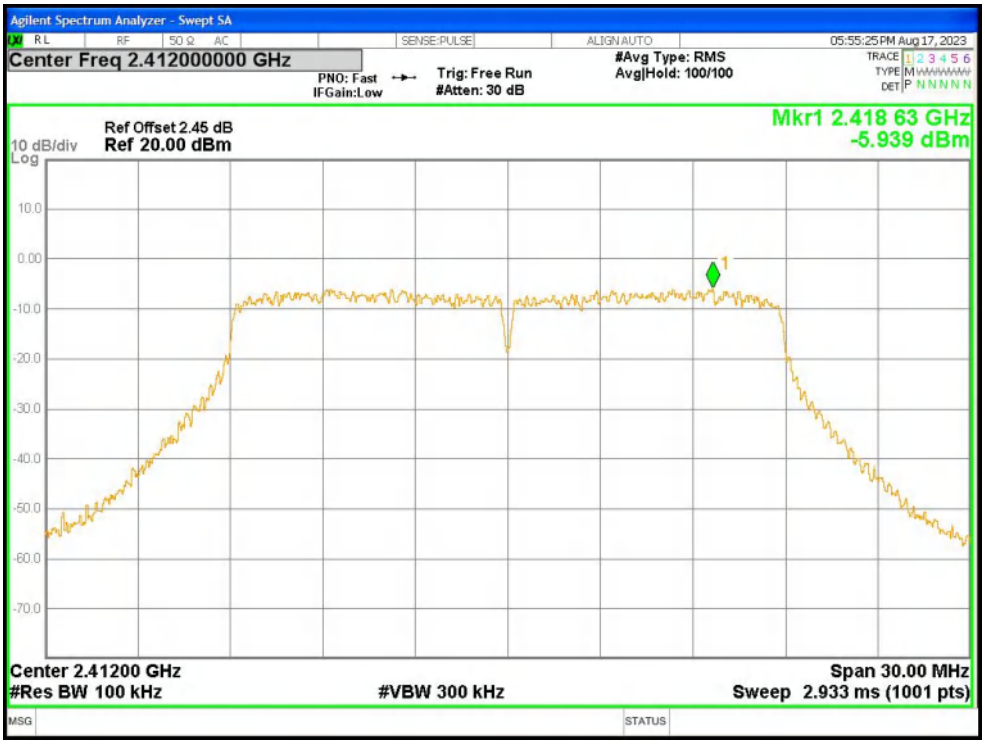

Band Edge NVNT g 2412MHz Ant1 Emission



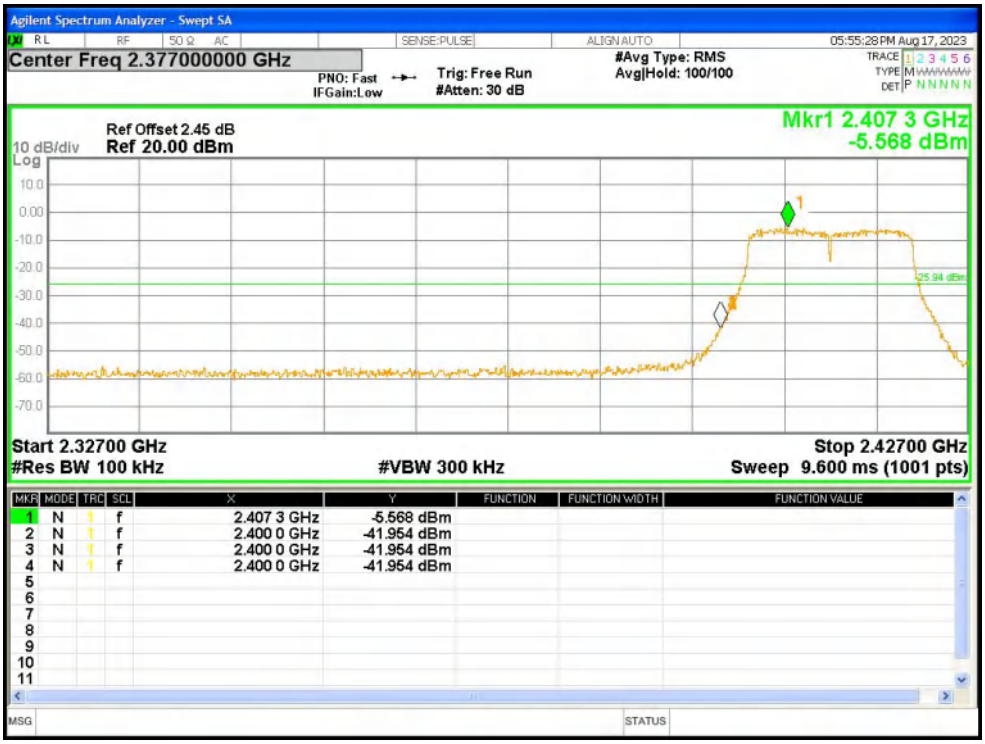

Band Edge NVNT g 2462MHz Ant1 Ref



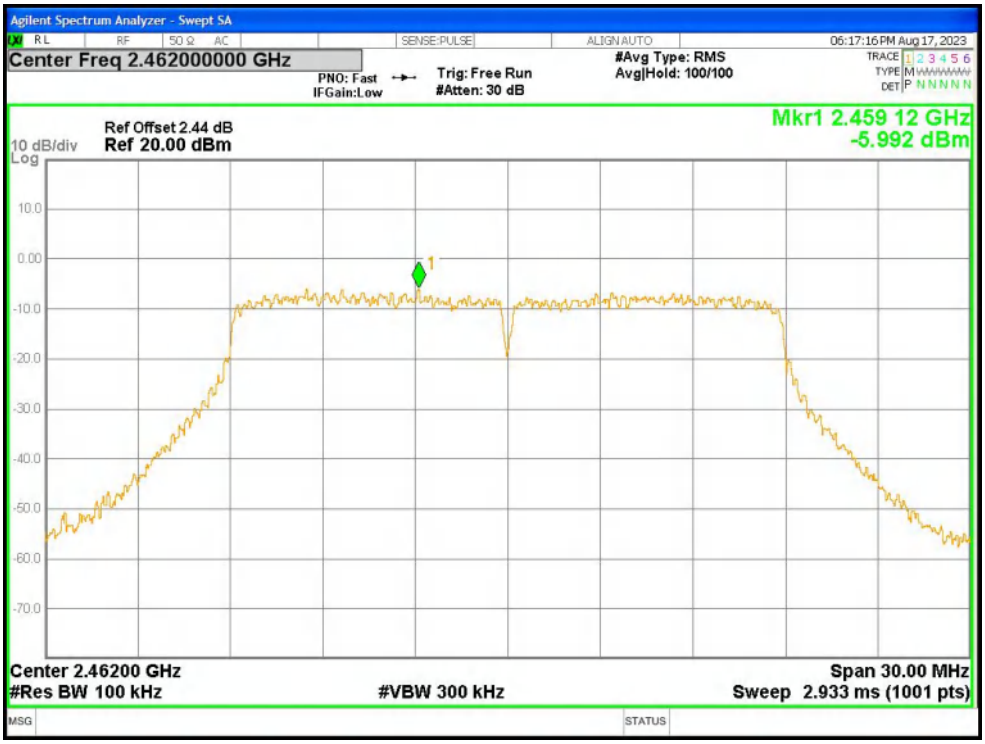

Band Edge NVNT g 2462MHz Ant1 Emission



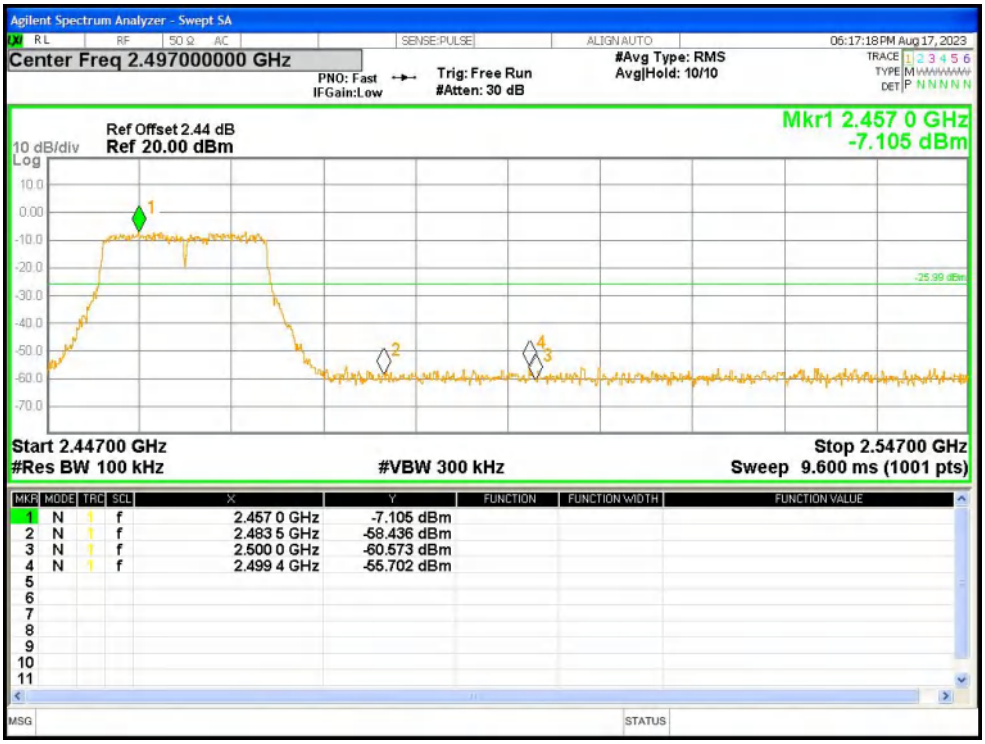

Band Edge NVNT n20 2412MHz Ant1 Ref




Band Edge NVNT n20 2412MHz Ant1 Emission




Band Edge NVNT n20 2462MHz Ant1 Ref




Band Edge NVNT n20 2462MHz Ant1 Emission

## 10. ANTENNA REQUIREMENT

| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
|---|---|
| 15.203 requirement:<br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.<br>15.247(c) (1)(i) requirement:<br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. | |
| EUT Antenna: | |
| The WIFI 2.4G antennas are Built-in antenna, the best case gain for one antennas are 2.73dBi, reference to the appendix II for details | |

## 11. TEST SETUP PHOTO

Reference to the appendix I for details.

## 12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

**※※※※※ END OF REPORT ※※※※※**