

# TEST REPORT

|                                        |                                                                                                                                                                         |                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| FCC ID. .... :                         | 2BGDM-ECX1                                                                                                                                                              |                                                                                       |
| Test Report No..... :                  | TCT240509E049                                                                                                                                                           |                                                                                       |
| Date of issue..... :                   | May 24, 2024                                                                                                                                                            |                                                                                       |
| Testing laboratory .....               | SHENZHEN TONGCE TESTING LAB                                                                                                                                             |                                                                                       |
| Testing location/ address:             | 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China                    |                                                                                       |
| Applicant's name..... :                | AEAI PTE.LTD.                                                                                                                                                           |                                                                                       |
| Address..... :                         | 3 PHILLIP STREET, #09-02 ROYAL GROUP BUILDING SING, Singapore                                                                                                           |                                                                                       |
| Manufacturer's name ... :              | AEAI PTE.LTD.                                                                                                                                                           |                                                                                       |
| Address..... :                         | 3 PHILLIP STREET, #09-02 ROYAL GROUP BUILDING SING, Singapore                                                                                                           |                                                                                       |
| Standard(s) .....                      | FCC CFR Title 47 Part 15 Subpart E Section 15.407<br>KDB 662911 D01 Multiple Transmitter Output v02r01<br>KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |                                                                                       |
| Product Name..... :                    | Aethir Edge Computing Server                                                                                                                                            |                                                                                       |
| Trade Mark .....                       | N/A                                                                                                                                                                     |                                                                                       |
| Model/Type reference..... :            | ECX1, ECX2, ECX3, DN003, S-DN003                                                                                                                                        |                                                                                       |
| Rating(s)..... :                       | Refer to EUT description of page 3                                                                                                                                      |                                                                                       |
| Date of receipt of test item .....     | May 09, 2024                                                                                                                                                            |                                                                                       |
| Date (s) of performance of test..... : | May 09, 2024 ~ May 24, 2024                                                                                                                                             |                                                                                       |
| Tested by (+signature) ... :           | Ronaldo LUO                                                                                                                                                             |  |
| Check by (+signature).... :            | Beryl ZHAO                                                                                                                                                              |  |
| Approved by (+signature):              | Tomsin                                                                                                                                                                  |  |

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**Appendix A: Test Result of Conducted Test**

**Appendix B: Photographs of Test Setup**

**Appendix C: Photographs of EUT**

## 1. General Product Information

### 1.1. EUT description

|                             |                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
| Product Name.....:          | Aethir Edge Computing Server                                                                                       |
| Model/Type reference.....:  | ECX1                                                                                                               |
| Sample Number.....:         | TCT240509E010-0101                                                                                                 |
| Operation Frequency .....   | Band 1: 5180 MHz~5240 MHz<br>Band 3: 5745 MHz~5825 MHz                                                             |
| Channel Bandwidth.....:     | 802.11a: 20MHz<br>802.11n: 20MHz, 40MHz<br>802.11ac: 20MHz, 40MHz, 80MHz<br>802.11ax: 20MHz, 40MHz, 80MHz          |
| Modulation Technology ..... | Orthogonal Frequency Division Multiplexing(OFDM)                                                                   |
| Modulation Type.....:       | 256QAM, 64QAM, 16QAM, BPSK, QPSK                                                                                   |
| Antenna Type.....:          | Internal Antenna                                                                                                   |
| Antenna Gain.....:          | Band 1: Antenna 1: 2.58dBi, Antenna 2: 3.91dBi<br>Band 3: Antenna 1: 4.64dBi, Antenna 2: 4.05dBi                   |
| Rating(s).....:             | Adapter Information:<br>Model: CS-1204000<br>Input: AC 100-240V, 50/60Hz, 2A Max.<br>Output: DC 12.0V, 4.0A, 48.0W |

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

| No.          | Model No.                  | Tested with                         |
|--------------|----------------------------|-------------------------------------|
| 1            | ECX1                       | <input checked="" type="checkbox"/> |
| Other models | ECX2, ECX3, DN003, S-DN003 | <input type="checkbox"/>            |

Note: ECX1 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and appearance. So the test data of ECX1 can represent the remaining models.

### 1.3. Test Frequency

#### Band 1

| 20MHz   |           | 40MHz   |           | 80MHz   |           |
|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 36      | 5180      | 38      | 5190      | 42      | 5210      |
| 40      | 5200      | 46      | 5230      |         |           |
| 48      | 5240      |         |           |         |           |

#### Band 3

| 20MHz   |           | 40MHz   |           | 80MHz   |           |
|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 149     | 5745      | 151     | 5755      | 155     | 5775      |
| 157     | 5785      | 159     | 5795      |         |           |
| 165     | 5825      |         |           |         |           |

**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:

## 2. Test Result Summary

| Requirement                                     | CFR 47 Section | Result |
|-------------------------------------------------|----------------|--------|
| Antenna requirement                             | §15.203        | PASS   |
| AC Power Line Conducted Emission                | §15.207        | PASS   |
| Maximum Conducted Output Power                  | §15.407(a)     | PASS   |
| 6dB Emission Bandwidth                          | §15.407(a)     | PASS   |
| 26dB Emission Bandwidth& 99% Occupied Bandwidth | §15.407(a)     | PASS   |
| Power Spectral Density                          | §15.407(a)     | PASS   |
| Restricted Bands around fundamental frequency   | §15.407(b)     | PASS   |
| Radiated Emission                               | §15.407(b)     | PASS   |
| Frequency Stability                             | §15.407(g)     | PASS   |

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

### 3. General Information

#### 3.1. Test environment and mode

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25.0 °C                                                                                         |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56 % RH                                                                                         |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1010 mbar                                                                                       |
| Test Software:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |
| Software Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ADB Tool                                                                                        |
| Power Level:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10                                                                                              |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                 |
| Engineering mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle. |
| <p>The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> |                                                                                                 |

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:

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

| Mode                   | Data rate |
|------------------------|-----------|
| 802.11a(SISO)          | 6 Mbps    |
| 802.11n(HT20) (MIMO)   | 6.5 Mbps  |
| 802.11n(HT40) (MIMO)   | 13.5 Mbps |
| 802.11ac(VHT20) (MIMO) | 6.5 Mbps  |
| 802.11ac(VHT40) (MIMO) | 13.5 Mbps |
| 802.11ac(VHT80) (MIMO) | 29.3 Mbps |
| 802.11ax(VHT20) (MIMO) | 6.5 Mbps  |

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| 802.11ax(VHT40) (MIMO)  | 13.5 Mbps                                               |
| 802.11ax(VHT80) (MIMO)  | 29.3 Mbps                                               |
| <b>Final Test Mode:</b> |                                                         |
| Operation mode:         | Keep the EUT in continuous transmitting with modulation |

### 3.2. Description of Support Units

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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| /         | /         | /          | /      | /          |

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 4. Facilities and Accreditations

### 4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

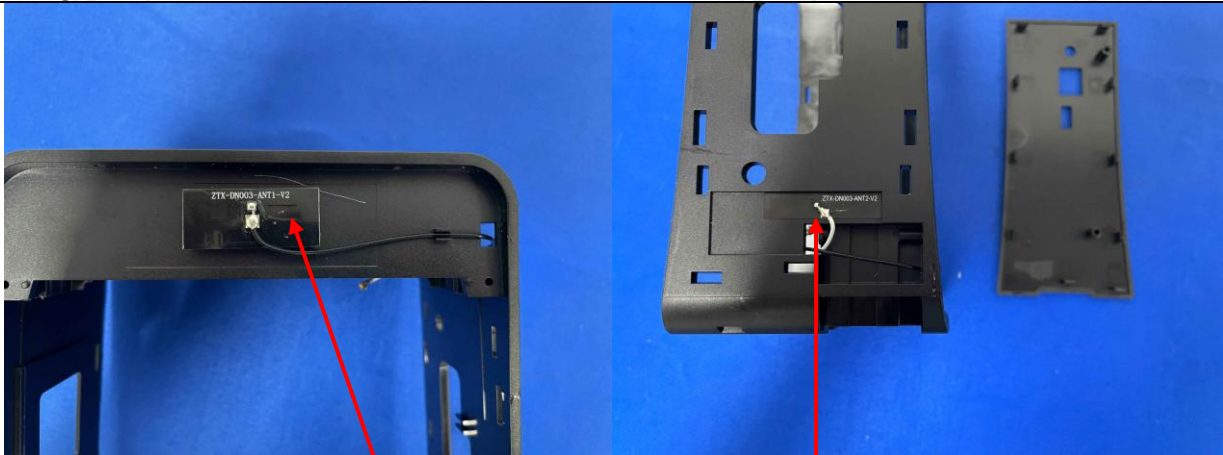
### 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , 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                                    | MU            |
|-----|-----------------------------------------|---------------|
| 1   | Conducted Emission                      | $\pm 3.10$ dB |
| 2   | RF power, conducted                     | $\pm 0.12$ dB |
| 3   | Spurious emissions, conducted           | $\pm 0.11$ dB |
| 4   | All emissions, radiated(<1 GHz)         | $\pm 4.56$ dB |
| 5   | All emissions, radiated(1 GHz - 18 GHz) | $\pm 4.22$ dB |
| 6   | All emissions, radiated(18 GHz- 40 GHz) | $\pm 4.36$ dB |

## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC Part15 C Section 15.203 /247(c) |
| <b>15.203 requirement:</b><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. |                                     |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
| The EUT test with two Internal antennas for maximum gain which are detachable, and the gain is shown below.                                                                                                                                                                                                                                                                                                                                                                      |                                     |
|  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>Antenna 1</span> <span>Antenna 2</span> </div>                                                                                                                                                                                                                                                           |                                     |
| Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:<br>Unequal antenna gains, with equal transmit powers, if transmit signals are correlated, then Directional gain of B1= $10\log[(10^{2.58/20} + 10^{3.91/20})^2/2] = 6.28\text{dBi}$ ;<br>Directional gain of B3 = $10\log[(10^{4.64/20} + 10^{4.05/20})^2/2] = 7.36\text{dBi}$ .                                                                                                                                     |                                     |
| <b>Note:</b> Above directional gain not applicable to power measurements.                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |

## 5.2. Conducted Emission

### 5.2.1. Test Specification

| Test Requirement:     | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method:          | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Frequency Range:      | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Receiver setup:       | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Limits:               | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Frequency range (MHz) | Limit (dBuV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Average               |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 56 to 46*             |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 46                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Setup:           | <div><p>Reference Plane</p><p>40cm</p><p>Test table/Insulation plane</p><p>80cm</p><p>EMI Receiver</p><p>Filter</p><p>AC power</p><p>Remark:<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Mode:            | Transmitting Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li><li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li><li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li></ol> |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Result:          | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |

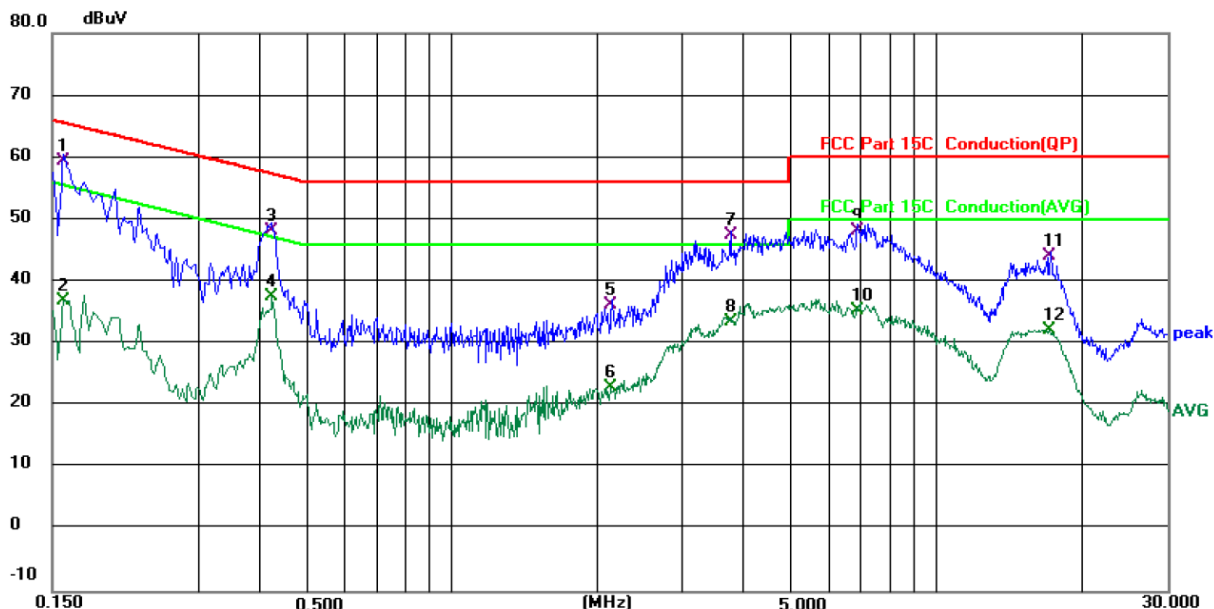
**5.2.2. Test Instruments**

| Conducted Emission Shielding Room Test Site (843) |                       |           |               |                 |
|---------------------------------------------------|-----------------------|-----------|---------------|-----------------|
| Equipment                                         | Manufacturer          | Model     | Serial Number | Calibration Due |
| EMI Test Receiver                                 | R&S                   | ESCI3     | 100898        | Jun. 29, 2024   |
| Line Impedance<br>Stabilisation<br>Newtork(LISN)  | Schwarzbeck           | NSLK 8126 | 8126453       | Jan. 31, 2025   |
| Line-5                                            | TCT                   | CE-05     | /             | Jul. 03, 2024   |
| EMI Test Software                                 | Shurple<br>Technology | EZ-EMC    | /             | /               |

## 5.2.3. Test data

Please refer to following diagram for individual

### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **L1**

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.1580       | 49.31                    | 10.03                   | 59.34                    | 65.57         | -6.23      | QP       |         |
| 2   |     | 0.1580       | 26.96                    | 10.03                   | 36.99                    | 55.57         | -18.58     | AVG      |         |
| 3   |     | 0.4259       | 38.80                    | 9.41                    | 48.21                    | 57.33         | -9.12      | QP       |         |
| 4   |     | 0.4259       | 28.26                    | 9.41                    | 37.67                    | 47.33         | -9.66      | AVG      |         |
| 5   |     | 2.1218       | 26.29                    | 10.04                   | 36.33                    | 56.00         | -19.67     | QP       |         |
| 6   |     | 2.1218       | 12.84                    | 10.04                   | 22.88                    | 46.00         | -23.12     | AVG      |         |
| 7   |     | 3.7660       | 37.18                    | 10.27                   | 47.45                    | 56.00         | -8.55      | QP       |         |
| 8   |     | 3.7660       | 23.33                    | 10.27                   | 33.60                    | 46.00         | -12.40     | AVG      |         |
| 9   |     | 6.9100       | 37.77                    | 10.50                   | 48.27                    | 60.00         | -11.73     | QP       |         |
| 10  |     | 6.9100       | 24.80                    | 10.50                   | 35.30                    | 50.00         | -14.70     | AVG      |         |
| 11  |     | 17.1660      | 33.51                    | 10.61                   | 44.12                    | 60.00         | -15.88     | QP       |         |
| 12  |     | 17.1660      | 21.60                    | 10.61                   | 32.21                    | 50.00         | -17.79     | AVG      |         |

#### Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

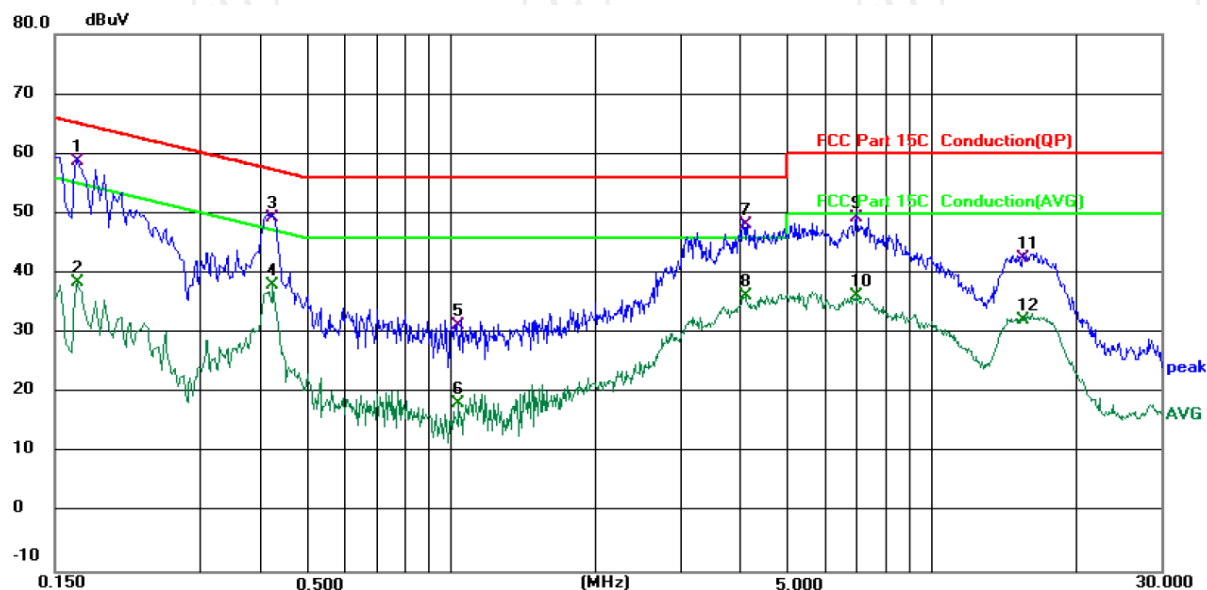
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

## Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.1660       | 48.66                    | 10.01                   | 58.67                    | 65.16         | -6.49      | QP       |         |
| 2   |     | 0.1660       | 28.45                    | 10.01                   | 38.46                    | 55.16         | -16.70     | AVG      |         |
| 3   |     | 0.4259       | 39.86                    | 9.39                    | 49.25                    | 57.33         | -8.08      | QP       |         |
| 4   |     | 0.4259       | 28.68                    | 9.39                    | 38.07                    | 47.33         | -9.26      | AVG      |         |
| 5   |     | 1.0420       | 22.51                    | 8.82                    | 31.33                    | 56.00         | -24.67     | QP       |         |
| 6   |     | 1.0420       | 9.41                     | 8.82                    | 18.23                    | 46.00         | -27.77     | AVG      |         |
| 7   |     | 4.0939       | 38.00                    | 10.23                   | 48.23                    | 56.00         | -7.77      | QP       |         |
| 8   |     | 4.0939       | 25.91                    | 10.23                   | 36.14                    | 46.00         | -9.86      | AVG      |         |
| 9   |     | 6.9820       | 38.82                    | 10.48                   | 49.30                    | 60.00         | -10.70     | QP       |         |
| 10  |     | 6.9820       | 25.75                    | 10.48                   | 36.23                    | 50.00         | -13.77     | AVG      |         |
| 11  |     | 15.4860      | 31.99                    | 10.58                   | 42.57                    | 60.00         | -17.43     | QP       |         |
| 12  |     | 15.4860      | 21.50                    | 10.58                   | 32.08                    | 50.00         | -17.92     | AVG      |         |

### Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

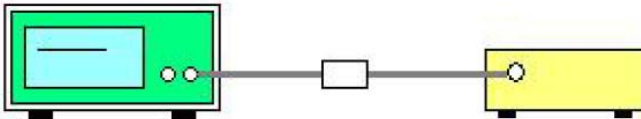
AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ax(VHT20), 802.11ax(VHT40), 802.11ax(VHT80)) and the worst case Mode (Middle channel and 802.11ax(VHT20) transmit with antenna 2) was submitted only.

### 5.3. Maximum Conducted Output Power

#### 5.3.1. Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                   |  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Test Requirement: | FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |  |
| Test Method:      | KDB662911 D01 Multiple Transmitter Output v02r01<br>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |  |
| Limit:            | Frequency Band (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit                                                                             |  |
|                   | 5180 - 5240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24dBm(250mW) for client device                                                    |  |
|                   | 5260 - 5320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz |  |
|                   | 5470 - 5725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz |  |
|                   | 5745 - 5825                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30dBm(1W)                                                                         |  |
| Test Setup:       | <div><p><b>Power meter</b> <b>EUT</b></p></div>                                                                                                                                                                                                                                                                                                                                                                        |                                                                                   |  |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                   |  |
| Test Procedure:   | <div><div>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</div><div>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</div><div>3. Set to the maximum power setting and enable the EUT transmit continuously.</div><div>5. Measure the conducted output power and record the results in the test report.</div></div> |                                                                                   |  |
| Test Result:      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |  |
| Remark:           | <div>Conducted output power= measurement power +10log(1/x), X is duty cycle=1, so 10log(1/1)=0</div> <div>Conducted output power= measurement power</div>                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |  |

### 5.3.2. Test Instruments

| Equipment         | Manufacturer | Model     | Serial Number | Calibration Due |
|-------------------|--------------|-----------|---------------|-----------------|
| Spectrum Analyzer | Agilent      | N9020A    | MY49100619    | Jun. 28, 2024   |
| Power Meter       | Agilent      | E4418B    | MY45100357    | Jun. 27, 2024   |
| Power Sensor      | Agilent      | 8481A     | MY41091497    | Jun. 27, 2024   |
| Combiner Box      | Ascentest    | AT890-RFB | /             | /               |

### 5.3.3. Test Data

| Configuration Band 1 (5180 - 5240 MHz) / Antenna 1+Antenna 2 |              |                                                   |       |       |                |        |
|--------------------------------------------------------------|--------------|---------------------------------------------------|-------|-------|----------------|--------|
| Mode                                                         | Test channel | Maximum Conducted (Average)<br>Output Power (dBm) |       |       | Limit<br>(dBm) | Result |
|                                                              |              | Ant1                                              | Ant2  | Total |                |        |
| 11a                                                          | CH36         | 12.74                                             | 13.46 | /     | 23.72          | PASS   |
| 11a                                                          | CH40         | 13.03                                             | 13.43 | /     | 23.72          | PASS   |
| 11a                                                          | CH48         | 14.03                                             | 15.05 | /     | 23.72          | PASS   |
| 11n(HT20)                                                    | CH36         | 13.31                                             | 13.84 | 16.59 | 23.72          | PASS   |
| 11n(HT20)                                                    | CH40         | 13.35                                             | 13.71 | 16.54 | 23.72          | PASS   |
| 11n(HT20)                                                    | CH48         | 14.37                                             | 15.45 | 17.95 | 23.72          | PASS   |
| 11n(HT40)                                                    | CH38         | 13.28                                             | 13.65 | 16.48 | 23.72          | PASS   |
| 11n(HT40)                                                    | CH46         | 14.27                                             | 15.23 | 17.79 | 23.72          | PASS   |
| 11ac(VHT20)                                                  | CH36         | 13.22                                             | 13.69 | 16.47 | 23.72          | PASS   |
| 11ac(VHT20)                                                  | CH40         | 13.27                                             | 13.58 | 16.44 | 23.72          | PASS   |
| 11ac(VHT20)                                                  | CH48         | 14.33                                             | 15.29 | 17.85 | 23.72          | PASS   |
| 11ac(VHT40)                                                  | CH38         | 13.12                                             | 12.88 | 16.01 | 23.72          | PASS   |
| 11ac(VHT40)                                                  | CH46         | 14.10                                             | 14.46 | 17.29 | 23.72          | PASS   |
| 11ac(VHT80)                                                  | CH42         | 13.45                                             | 13.73 | 16.60 | 23.72          | PASS   |
| 11ax(VHT20)                                                  | CH36         | 13.13                                             | 13.40 | 16.28 | 23.72          | PASS   |
| 11ax(VHT20)                                                  | CH40         | 13.21                                             | 13.37 | 16.30 | 23.72          | PASS   |
| 11ax(VHT20)                                                  | CH48         | 14.20                                             | 14.93 | 17.59 | 23.72          | PASS   |
| 11ax(VHT40)                                                  | CH38         | 13.02                                             | 13.15 | 16.10 | 23.72          | PASS   |
| 11ax(VHT40)                                                  | CH46         | 14.02                                             | 14.61 | 17.34 | 23.72          | PASS   |
| 11ax(VHT80)                                                  | CH42         | 13.15                                             | 13.45 | 16.31 | 23.72          | PASS   |

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$  dBi = 6.28 > 6, so power limit = 23.72dBm.

## Configuration Band 3 (5745 - 5825 MHz) / Antenna 1+Antenna 2

| Mode        | Test channel | Maximum Conducted (Average)<br>Output Power (dBm) |       |       | Limit<br>(dBm) | Result |
|-------------|--------------|---------------------------------------------------|-------|-------|----------------|--------|
|             |              | Ant1                                              | Ant2  | Total |                |        |
| 11a         | CH149        | 13.41                                             | 16.25 | /     | 28.64          | PASS   |
| 11a         | CH157        | 13.81                                             | 16.58 | /     | 28.64          | PASS   |
| 11a         | CH165        | 13.01                                             | 15.90 | /     | 28.64          | PASS   |
| 11n(HT20)   | CH149        | 13.89                                             | 16.61 | 18.47 | 28.64          | PASS   |
| 11n(HT20)   | CH157        | 14.23                                             | 17.03 | 18.86 | 28.64          | PASS   |
| 11n(HT20)   | CH165        | 13.42                                             | 16.38 | 18.16 | 28.64          | PASS   |
| 11n(HT40)   | CH151        | 13.39                                             | 16.54 | 18.25 | 28.64          | PASS   |
| 11n(HT40)   | CH159        | 13.83                                             | 17.00 | 18.71 | 28.64          | PASS   |
| 11ac(VHT20) | CH149        | 12.90                                             | 16.56 | 18.11 | 28.64          | PASS   |
| 11ac(VHT20) | CH157        | 13.51                                             | 16.93 | 18.56 | 28.64          | PASS   |
| 11ac(VHT20) | CH165        | 12.89                                             | 16.13 | 17.82 | 28.64          | PASS   |
| 11ac(VHT40) | CH151        | 13.31                                             | 16.55 | 18.24 | 28.64          | PASS   |
| 11ac(VHT40) | CH159        | 13.75                                             | 16.89 | 18.61 | 28.64          | PASS   |
| 11ac(VHT80) | CH155        | 13.48                                             | 16.83 | 18.48 | 28.64          | PASS   |
| 11ax(VHT20) | CH149        | 13.30                                             | 16.60 | 18.27 | 28.64          | PASS   |
| 11ax(VHT20) | CH157        | 13.84                                             | 17.13 | 18.80 | 28.64          | PASS   |
| 11ax(VHT20) | CH165        | 13.11                                             | 16.42 | 18.08 | 28.64          | PASS   |
| 11ax(VHT40) | CH151        | 13.37                                             | 16.47 | 18.20 | 28.64          | PASS   |
| 11ax(VHT40) | CH159        | 13.77                                             | 16.79 | 18.55 | 28.64          | PASS   |
| 11ax(VHT80) | CH155        | 13.19                                             | 16.44 | 18.12 | 28.64          | PASS   |

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$  dBi = 7.36 > 6, power limit = 28.64 dBm.

## 5.4. 6dB Emission Bandwidth

### 5.4.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Test Method:</b>      | KDB662911 D01 Multiple Transmitter Output v02r01<br>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Limit:</b>            | >500kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>4. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### 5.4.2. Test Instruments

| Equipment         | Manufacturer | Model     | Serial Number | Calibration Due |
|-------------------|--------------|-----------|---------------|-----------------|
| Spectrum Analyzer | Agilent      | N9020A    | MY49100619    | Jun. 28, 2024   |
| Combiner Box      | Ascentest    | AT890-RFB | /             | /               |

## 5.5. 26dB Bandwidth and 99% Occupied Bandwidth

### 5.5.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | 47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Method:</b>      | KDB662911 D01 Multiple Transmitter Output v02r01<br>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D                                                                                                                                                                                                                                                                                                                                                          |
| <b>Limit:</b>            | No restriction limits                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                   |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement.</li> <li>4. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 5.5.2. Test Instruments

| Equipment         | Manufacturer | Model     | Serial Number | Calibration Due |
|-------------------|--------------|-----------|---------------|-----------------|
| Spectrum Analyzer | Agilent      | N9020A    | MY49100619    | Jun. 28, 2024   |
| Combiner Box      | Ascentest    | AT890-RFB | /             | /               |

## 5.6. Power Spectral Density

### 5.6.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 E Section 15.407 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Method:</b>      | KDB662911 D01 Multiple Transmitter Output v02r01<br>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Limit:</b>            | $\leq 11.00\text{dBm/MHz}$ for Band 1 5150MHz-5250MHz(client device)<br>$\leq 11.00\text{dBm/MHz}$ for Band 2A&2C 5250-5350&5470-5725<br>$\leq 30.00\text{dBm/500KHz}$ for Band 3 5725MHz-5850MHz<br>The e.i.r.p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz                                                                                                                                                                                                                                                                                       |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Procedure:</b>   | 1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.<br>1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.<br>2. Allow the sweeps to continue until the trace stabilizes.<br>3. Use the peak marker function to determine the maximum amplitude level.<br>4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment. |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### 5.6.2. Test Instruments

| Equipment         | Manufacturer | Model     | Serial Number | Calibration Due |
|-------------------|--------------|-----------|---------------|-----------------|
| Spectrum Analyzer | Agilent      | N9020A    | MY49100619    | Jun. 28, 2024   |
| Combiner Box      | Ascentest    | AT890-RFB | /             | /               |

### 5.6.3. Test data

| Configuration Band 1 (5180 - 5240 MHz ) / Antenna 1+Antenna 2 |              |                                 |       |       |                    |        |
|---------------------------------------------------------------|--------------|---------------------------------|-------|-------|--------------------|--------|
| Mode                                                          | Test channel | Power Spectral Density(dBm/MHz) |       |       | Limit<br>(dBm/MHz) | Result |
|                                                               |              | Ant1                            | Ant2  | Total |                    |        |
| 11a                                                           | CH36         | 1.89                            | 2.59  | /     | 10.72              | PASS   |
| 11a                                                           | CH40         | 1.96                            | 2.61  | /     | 10.72              | PASS   |
| 11a                                                           | CH48         | 3.02                            | 4.01  | /     | 10.72              | PASS   |
| 11n(HT20)                                                     | CH36         | 1.79                            | 2.24  | 5.03  | 10.72              | PASS   |
| 11n(HT20)                                                     | CH40         | 1.62                            | 2.10  | 4.88  | 10.72              | PASS   |
| 11n(HT20)                                                     | CH48         | 2.70                            | 3.85  | 6.32  | 10.72              | PASS   |
| 11n(HT40)                                                     | CH38         | -1.16                           | -0.65 | 2.11  | 10.72              | PASS   |
| 11n(HT40)                                                     | CH46         | -0.37                           | 0.60  | 3.15  | 10.72              | PASS   |
| 11ac(VHT20)                                                   | CH36         | 1.86                            | 2.34  | 5.12  | 10.72              | PASS   |
| 11ac(VHT20)                                                   | CH40         | 1.70                            | 2.20  | 4.97  | 10.72              | PASS   |
| 11ac(VHT20)                                                   | CH48         | 2.82                            | 4.04  | 6.48  | 10.72              | PASS   |
| 11ac(VHT40)                                                   | CH38         | -1.09                           | -1.55 | 1.70  | 10.72              | PASS   |
| 11ac(VHT40)                                                   | CH46         | -0.04                           | 0.21  | 3.10  | 10.72              | PASS   |
| 11ac(VHT80)                                                   | CH42         | -3.61                           | -3.47 | -0.53 | 10.72              | PASS   |
| 11ax(VHT20)                                                   | CH36         | 2.57                            | 2.54  | 5.57  | 10.72              | PASS   |
| 11ax(VHT20)                                                   | CH40         | 2.44                            | 2.50  | 5.48  | 10.72              | PASS   |
| 11ax(VHT20)                                                   | CH48         | 3.29                            | 4.37  | 6.87  | 10.72              | PASS   |
| 11ax(VHT40)                                                   | CH38         | -0.40                           | -0.32 | 2.65  | 10.72              | PASS   |
| 11ax(VHT40)                                                   | CH46         | 0.50                            | 1.06  | 3.80  | 10.72              | PASS   |
| 11ax(VHT80)                                                   | CH42         | -2.97                           | -2.77 | 0.14  | 10.72              | PASS   |

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:  
For power spectral density (PSD) measurements when antenna gains are not equal,  
Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$  dBi = 6.28 > 6,  
So limit=10.72

## Configuration Band 3(5745-5825MHz ) / Antenna 1+Antenna 2

| Mode        | Test channel | Power Spectral Density(dBm/MHz) |       |       | Limit<br>(dBm/MHz) | Result |
|-------------|--------------|---------------------------------|-------|-------|--------------------|--------|
|             |              | Ant1                            | Ant2  | Total |                    |        |
| 11a         | CH149        | -0.02                           | 2.90  | /     | 28.64              | PASS   |
| 11a         | CH157        | 0.38                            | 3.21  | /     | 28.64              | PASS   |
| 11a         | CH165        | -0.50                           | 2.63  | /     | 28.64              | PASS   |
| 11n(HT20)   | CH149        | -0.47                           | 2.2   | 4.08  | 28.64              | PASS   |
| 11n(HT20)   | CH157        | -0.14                           | 2.7   | 4.52  | 28.64              | PASS   |
| 11n(HT20)   | CH165        | -0.97                           | 1.99  | 3.77  | 28.64              | PASS   |
| 11n(HT40)   | CH151        | -3.60                           | -0.58 | 1.18  | 28.64              | PASS   |
| 11n(HT40)   | CH159        | -3.29                           | -0.13 | 1.58  | 28.64              | PASS   |
| 11ac(VHT20) | CH149        | -1.03                           | 2.53  | 4.12  | 28.64              | PASS   |
| 11ac(VHT20) | CH157        | -0.44                           | 3.00  | 4.62  | 28.64              | PASS   |
| 11ac(VHT20) | CH165        | -0.90                           | 2.20  | 3.93  | 28.64              | PASS   |
| 11ac(VHT40) | CH151        | -3.31                           | 0.20  | 1.80  | 28.64              | PASS   |
| 11ac(VHT40) | CH159        | -2.80                           | 0.12  | 1.91  | 28.64              | PASS   |
| 11ac(VHT80) | CH155        | -6.31                           | -2.98 | -1.32 | 28.64              | PASS   |
| 11ax(VHT20) | CH149        | 0.40                            | 3.24  | 5.06  | 28.64              | PASS   |
| 11ax(VHT20) | CH157        | 0.56                            | 3.68  | 5.40  | 28.64              | PASS   |
| 11ax(VHT20) | CH165        | -0.07                           | 3.18  | 4.86  | 28.64              | PASS   |
| 11ax(VHT40) | CH151        | -2.91                           | 0.14  | 1.89  | 28.64              | PASS   |
| 11ax(VHT40) | CH159        | -2.30                           | 0.60  | 2.40  | 28.64              | PASS   |
| 11ax(VHT80) | CH155        | -5.52                           | -2.37 | -0.66 | 28.64              | PASS   |

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

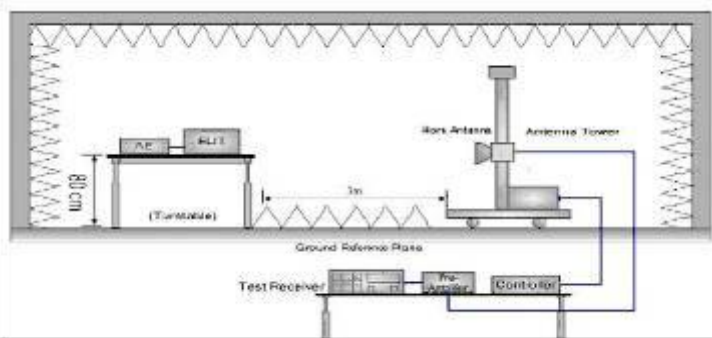
For power spectral density (PSD) measurements when antenna gains are not equal,

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$  dBi=7.36>6,

So limit=31.36

## 5.7. Band edge

### 5.7.1. Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |                 |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| Test Requirement: | FCC CFR47 Part 15E Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |                 |
| Test Method:      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |                 |
| Limit:            | In un-restricted band:<br>For Band 1&2A&2C: -27dBm/MHz<br>For Band 3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |                 |
|                   | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit (dBm/MHz) | Frequency (MHz) | Limit (dBm/MHz) |
|                   | < 650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -27             | 5850~5855       | 27~15.6         |
|                   | 5650~5700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -27~10          | 5855~5875       | 15.6~10         |
|                   | 5700~5720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10~15.6         | 5875~5925       | 10~-27          |
|                   | 5720~5725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.6~27         | > 5925          | -27             |
|                   | E[dBμV/m] = EIRP[dBm] + 95.2 @3m<br>In restricted band:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |                 |
| Detector          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit@3m        |                 |                 |
| Peak              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74dBμV/m        |                 |                 |
| AVG               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54dBμV/m        |                 |                 |
| Test Setup:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |                 |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |                 |
| Test Procedure:   | <p>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>3. 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.</p> <p>4. 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.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</p> |                 |                 |                 |

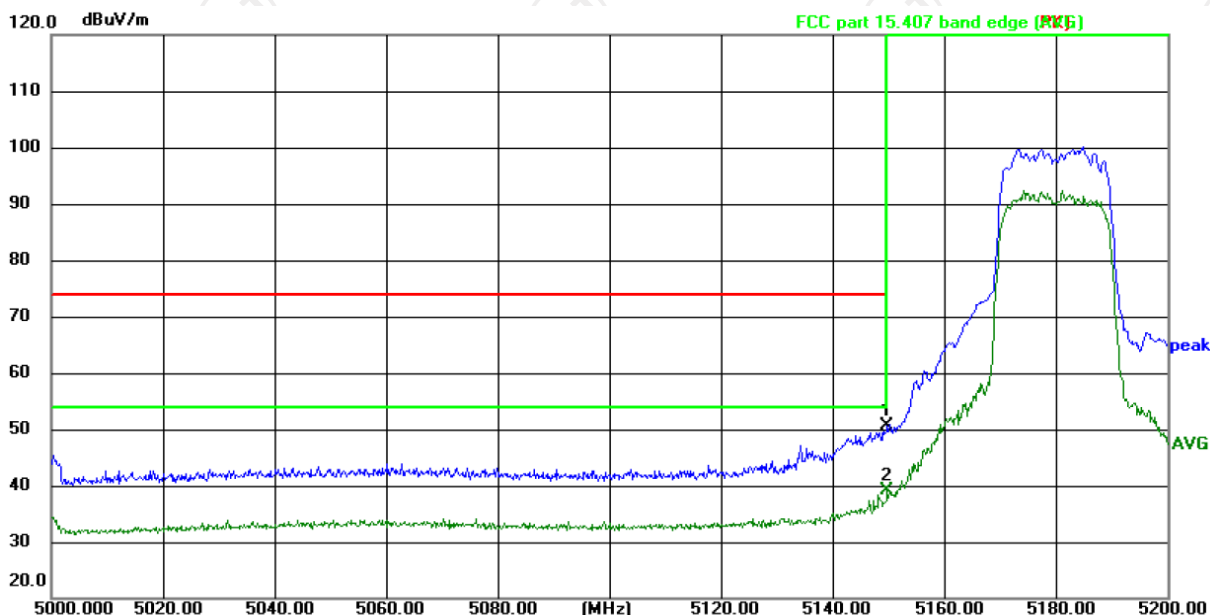
|                     |                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <p>Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</p> |
| <b>Test Result:</b> | PASS                                                                                                                                                                                                                                                                                                                                                                      |

### 5.7.2. Test Instruments

| Radiated Emission Test Site (966) |                    |               |                |                 |
|-----------------------------------|--------------------|---------------|----------------|-----------------|
| Name of Equipment                 | Manufacturer       | Model         | Serial Number  | Calibration Due |
| EMI Test Receiver                 | R&S                | ESIB7         | 100197         | Jun. 29, 2024   |
| Spectrum Analyzer                 | R&S                | FSQ40         | 200061         | Jun. 29, 2024   |
| Spectrum Analyzer                 | Agilent            | N9020A        | MY49100619     | Jun. 28, 2024   |
| Pre-amplifier                     | SKET               | LNPA_0118G-45 | SK2021012102   | Jan. 31, 2025   |
| Pre-amplifier                     | SKET               | LNPA_1840G-50 | SK202109203500 | Jan. 31, 2025   |
| Pre-amplifier                     | HP                 | 8447D         | 2727A05017     | Jun. 27, 2024   |
| Loop antenna                      | Schwarzbeck        | FMZB1519B     | 00191          | Jul. 02, 2024   |
| Broadband Antenna                 | Schwarzbeck        | VULB9163      | 340            | Jul. 01, 2024   |
| Horn Antenna                      | Schwarzbeck        | BBHA 9120D    | 631            | Jul. 01, 2024   |
| Horn Antenna                      | Schwarzbeck        | BBHA 9170     | 00956          | Feb. 02, 2025   |
| Coaxial cable                     | SKET               | RC-18G-N-M    | /              | Jan. 31, 2025   |
| Coaxial cable                     | SKET               | RC_40G-K-M    | /              | Jan. 31, 2025   |
| Antenna Mast                      | Keleto             | CC-A-4M       | /              | /               |
| EMI Test Software                 | Shurple Technology | EZ-EMC        | /              | /               |

## 5.7.3. Test Data

### AX20-5180



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

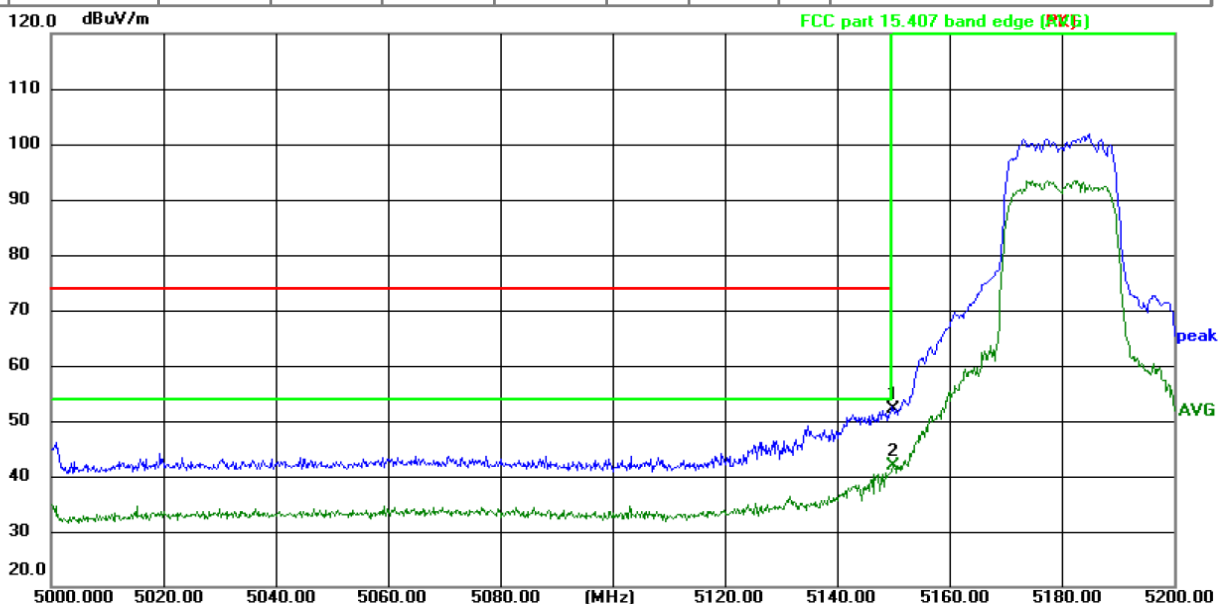
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5150.000        | 59.79          | -9.24         | 50.55          | 74.00          | -23.45      | peak     | P   |        |
| 2 * | 5150.000        | 48.25          | -9.24         | 39.01          | 54.00          | -14.99      | AVG      | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

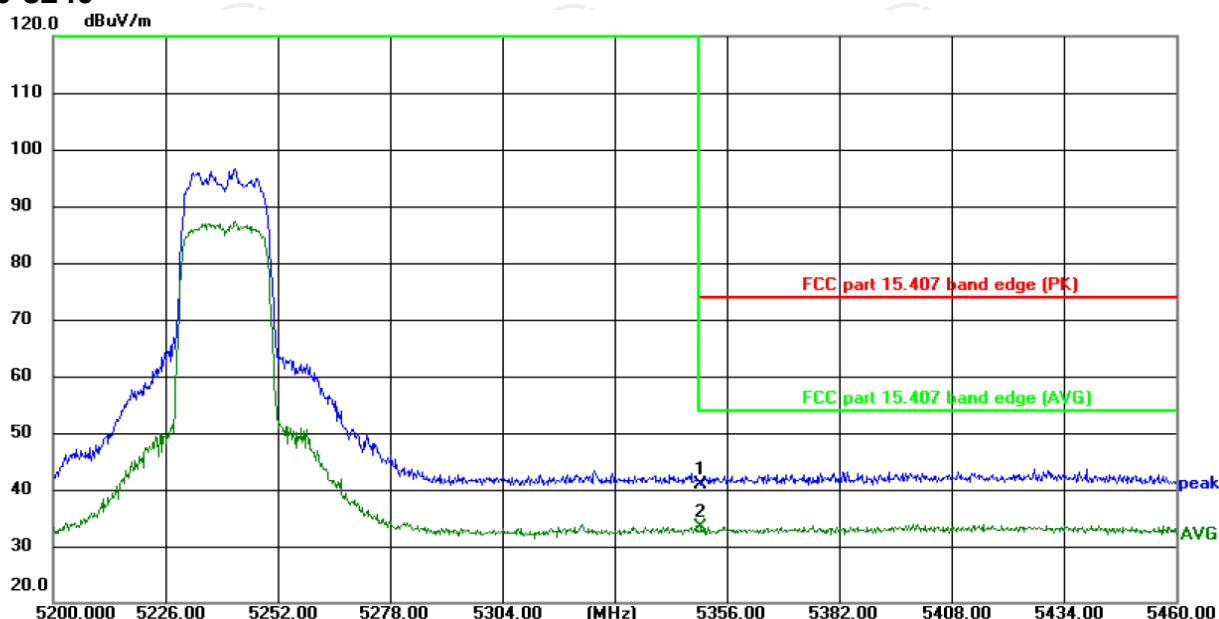
Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5150.000        | 61.47          | -9.24         | 52.23          | 74.00          | -21.77      | peak     | P   |        |
| 2 * | 5150.000        | 51.19          | -9.24         | 41.95          | 54.00          | -12.05      | AVG      | P   |        |

## AX20-5240



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

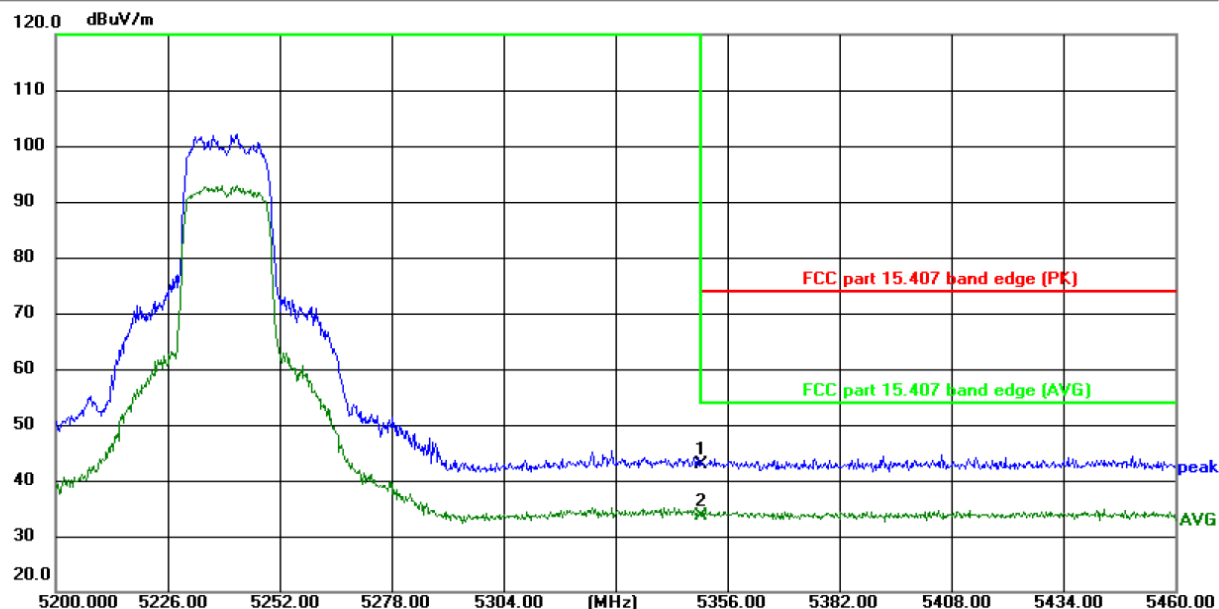
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5350.000        | 49.15          | -8.15         | 41.00          | 74.00          | -33.00      | peak     | P   |        |
| 2 * | 5350.000        | 41.64          | -8.15         | 33.49          | 54.00          | -20.51      | AVG      | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

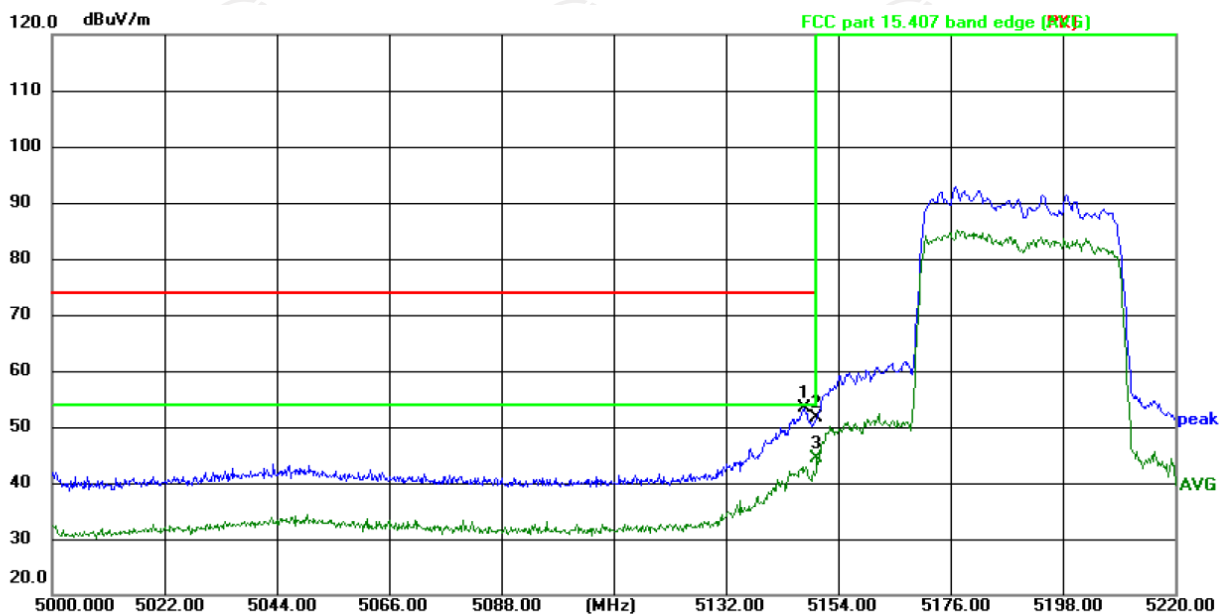
Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5350.000        | 51.15          | -8.15         | 43.00          | 74.00          | -31.00      | peak     | P   |        |
| 2 * | 5350.000        | 41.87          | -8.15         | 33.72          | 54.00          | -20.28      | AVG      | P   |        |

## AX40-5190



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

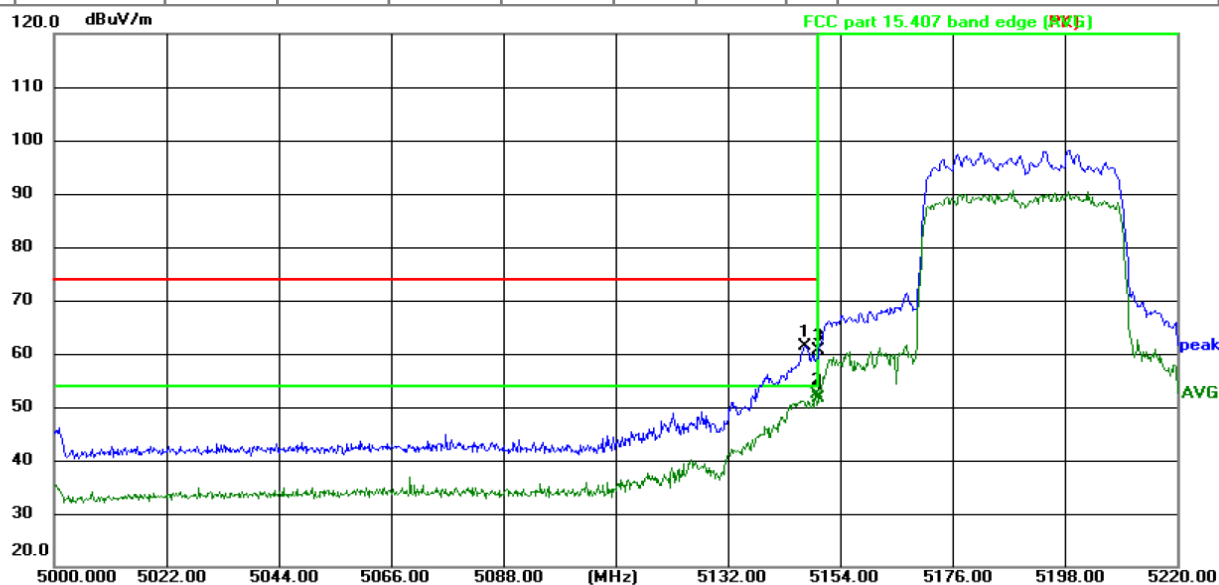
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5147.411        | 62.78          | -9.28         | 53.50          | 74.00          | -20.50      | peak     | P   |        |
| 2   | 5150.000        | 60.94          | -9.24         | 51.70          | 74.00          | -22.30      | peak     | P   |        |
| 3 * | 5150.000        | 53.50          | -9.24         | 44.26          | 54.00          | -9.74       | AVG      | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

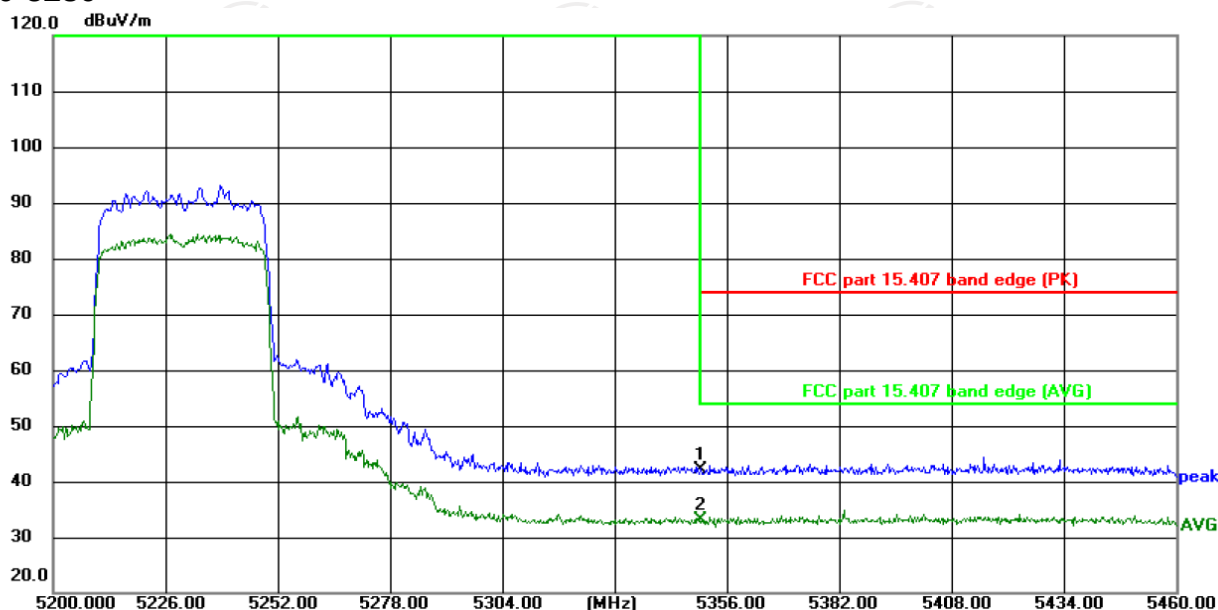
Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5147.279        | 70.72          | -9.28         | 61.44          | 74.00          | -12.56      | peak     | P   |        |
| 2 * | 5149.281        | 61.61          | -9.26         | 52.35          | 54.00          | -1.65       | AVG      | P   |        |
| 3   | 5150.000        | 69.88          | -9.24         | 60.64          | 74.00          | -13.36      | peak     | P   |        |
| 4   | 5150.000        | 60.95          | -9.24         | 51.71          | 54.00          | -2.29       | AVG      | P   |        |

## AX40-5230

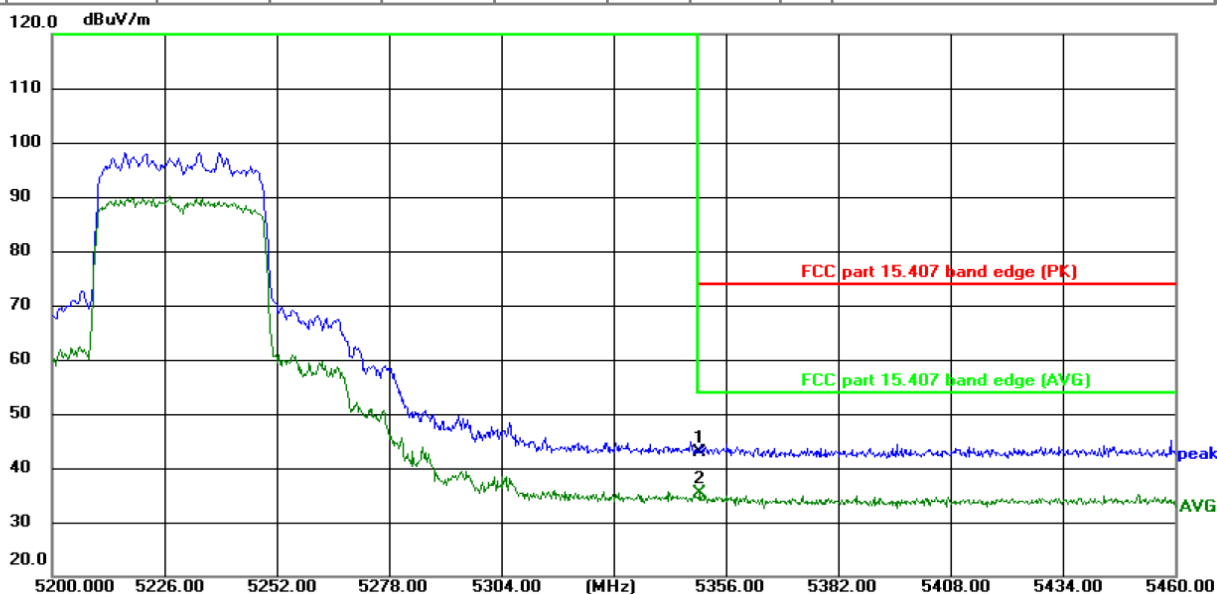


Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 23.7(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5350.000        | 50.38          | -8.15         | 42.23          | 74.00          | -31.77      | peak     | P   |        |
| 2 * | 5350.000        | 41.16          | -8.15         | 33.01          | 54.00          | -20.99      | AVG      | P   |        |



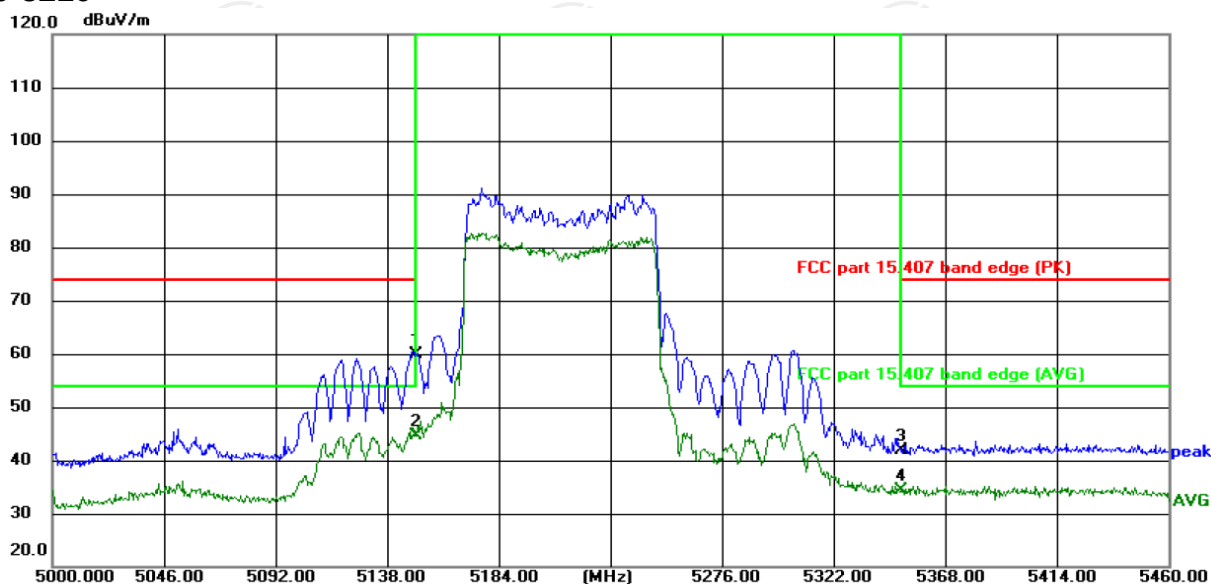
Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 23.7(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5350.000        | 51.00          | -8.15         | 42.85          | 74.00          | -31.15      | peak     | P   |        |
| 2 * | 5350.000        | 43.45          | -8.15         | 35.30          | 54.00          | -18.70      | AVG      | P   |        |

## AX80-5210



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

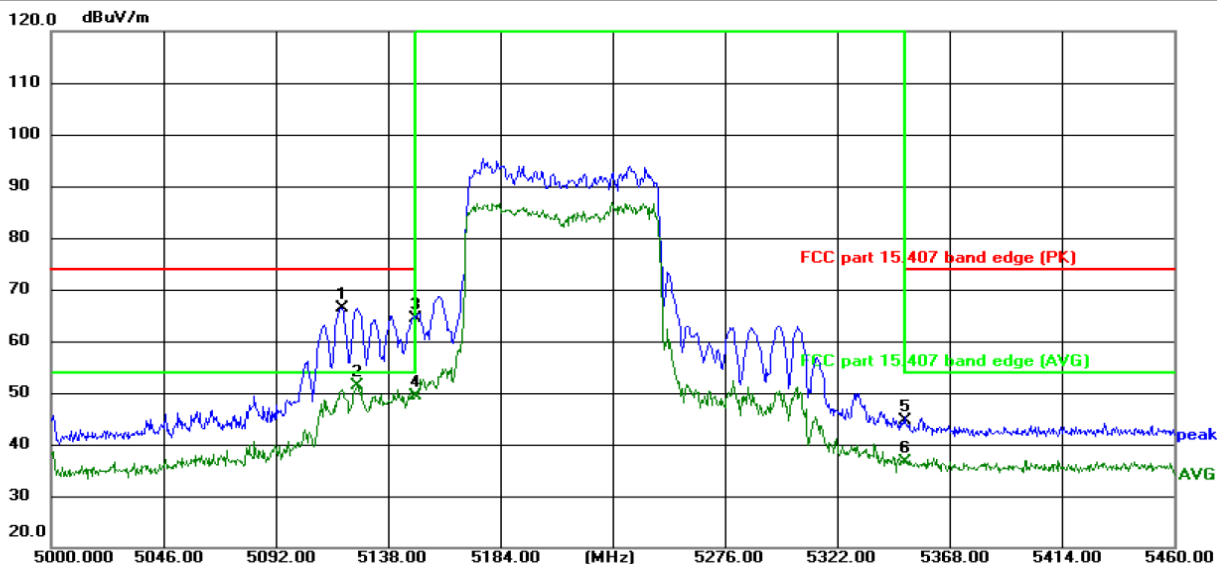
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5150.000        | 69.20          | -9.24         | 59.96          | 74.00          | -14.04      | peak     | P   |        |
| 2 * | 5150.000        | 53.98          | -9.24         | 44.74          | 54.00          | -9.26       | AVG      | P   |        |
| 3   | 5350.000        | 50.09          | -8.15         | 41.94          | 74.00          | -32.06      | peak     | P   |        |
| 4   | 5350.000        | 42.46          | -8.15         | 34.31          | 54.00          | -19.69      | AVG      | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

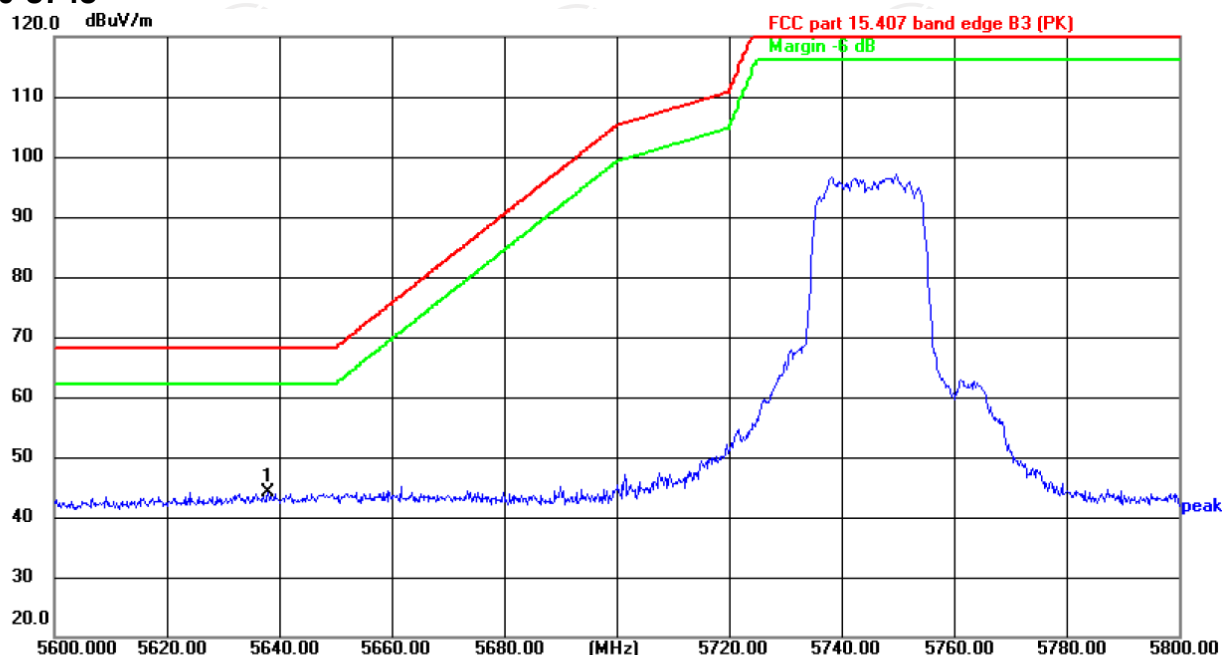
Humidity: 57 %

Limit: FCC part 15.407 band edge (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 5119.025        | 76.06          | -9.67         | 66.39          | 74.00          | -7.61       | peak     | P   |        |
| 2 * | 5125.948        | 60.88          | -9.58         | 51.30          | 54.00          | -2.70       | AVG      | P   |        |
| 3   | 5150.000        | 73.71          | -9.24         | 64.47          | 74.00          | -9.53       | peak     | P   |        |
| 4   | 5150.000        | 58.53          | -9.24         | 49.29          | 54.00          | -4.71       | AVG      | P   |        |
| 5   | 5350.000        | 52.86          | -8.15         | 44.71          | 74.00          | -29.29      | peak     | P   |        |
| 6   | 5350.000        | 44.78          | -8.15         | 36.63          | 54.00          | -17.37      | AVG      | P   |        |

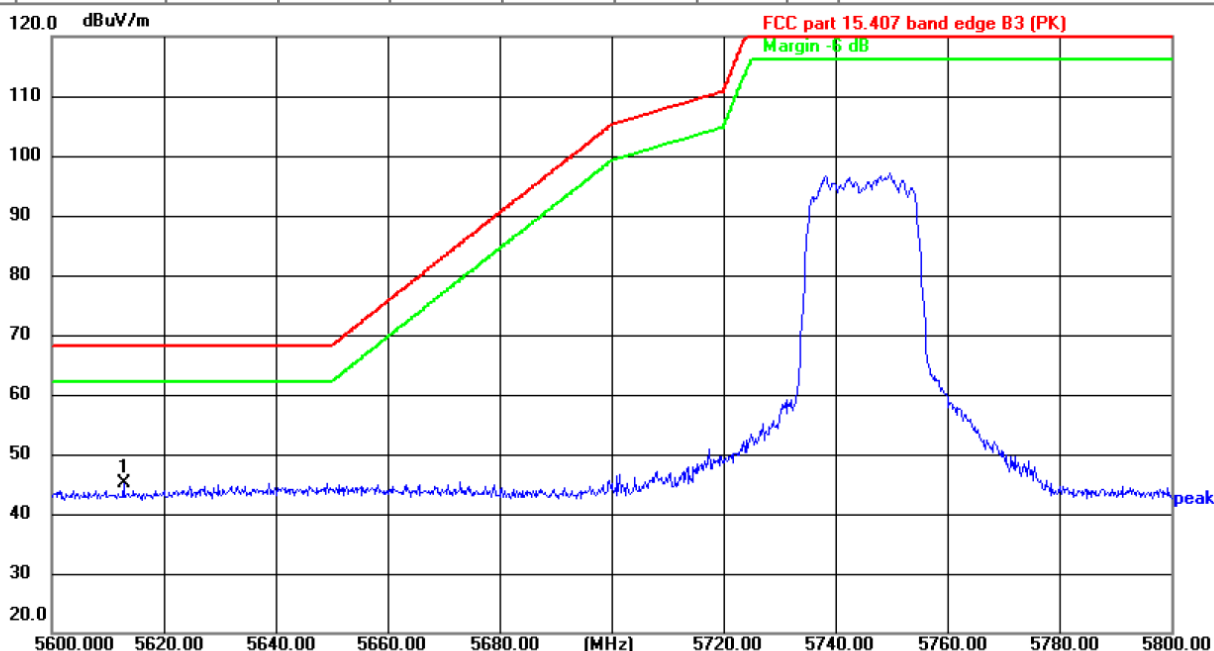
## AX20-5745



Site: 3m Anechoic Chamber Polarization: **Horizontal** Temperature: 23.7(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5638.100        | 51.57          | -7.44         | 44.13          | 68.20          | -24.07      | peak     | P   |        |

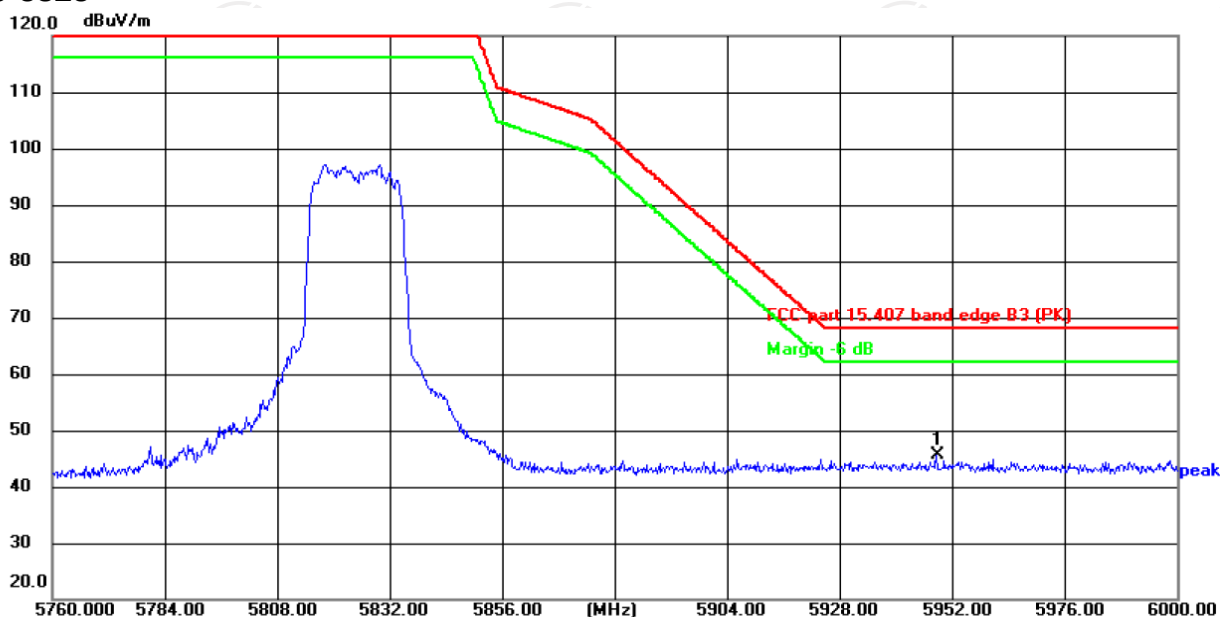


Site: 3m Anechoic Chamber Polarization: **Vertical** Temperature: 23.7(°C) Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK) Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5612.860        | 52.95          | -7.80         | 45.15          | 68.20          | -23.05      | peak     | P   |        |

## AX20-5825



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

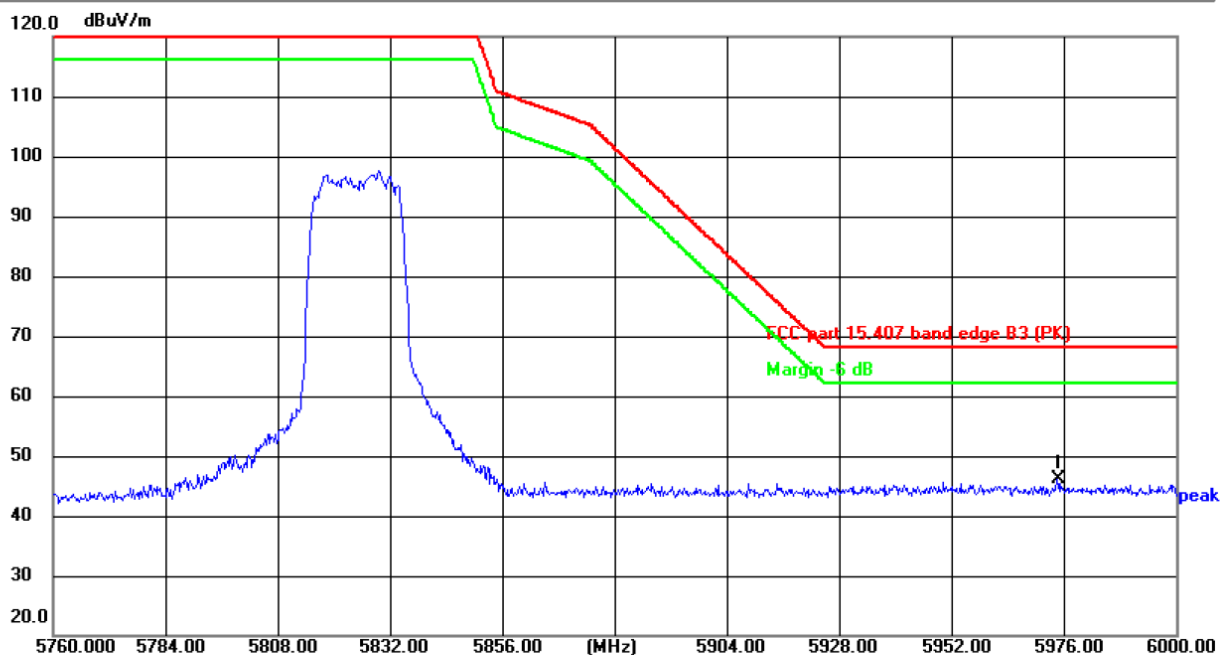
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5948.664        | 52.50          | -6.80         | 45.70          | 68.20          | -22.50      | peak     | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

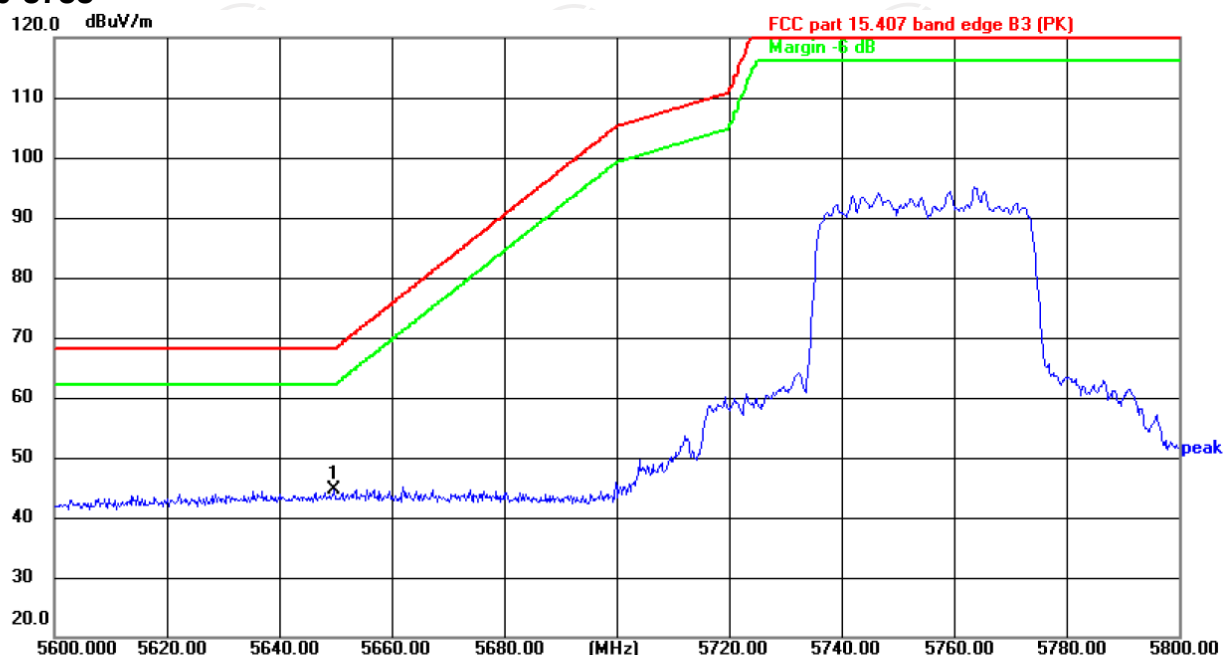
Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5974.656        | 52.70          | -6.65         | 46.05          | 68.20          | -22.15      | peak     | P   |        |

## AX40-5755



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

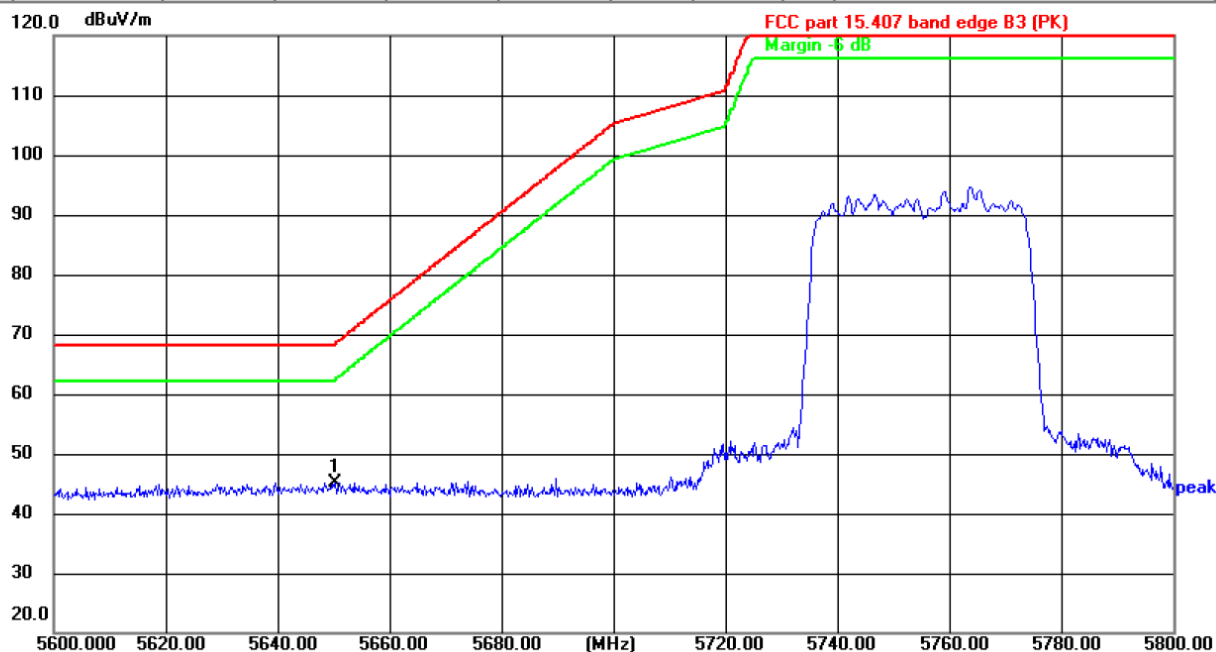
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5649.980        | 51.81          | -7.27         | 44.54          | 68.20          | -23.66      | peak     | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

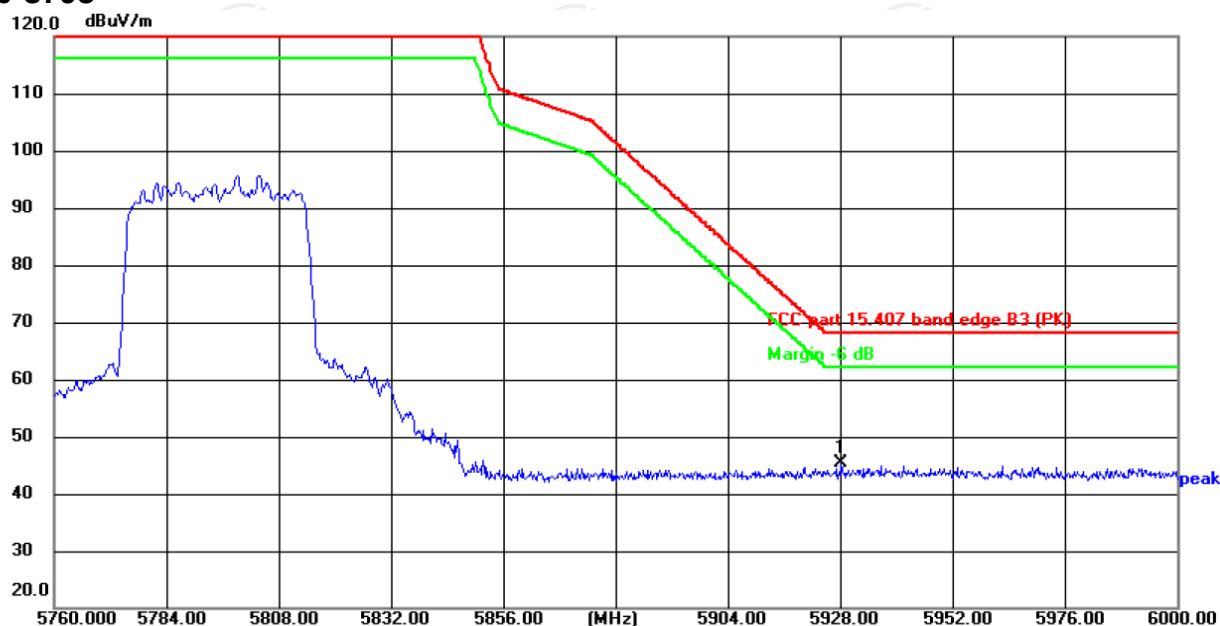
Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5650.280        | 52.50          | -7.27         | 45.23          | 68.41          | -23.18      | peak     | P   |        |

## AX40-5795



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

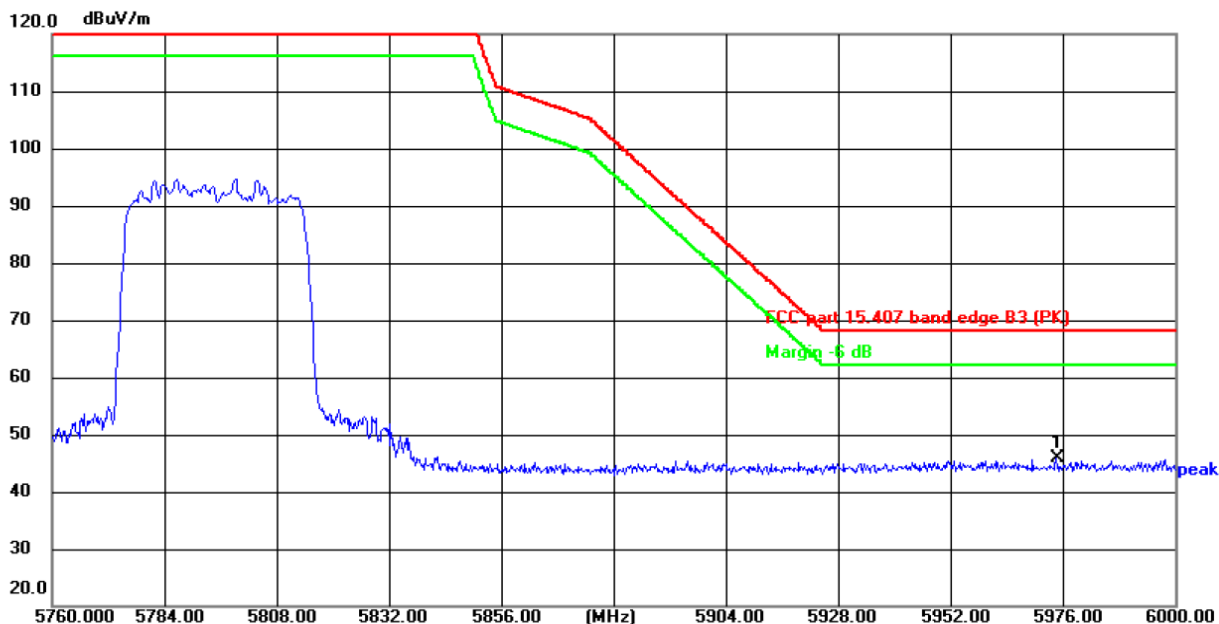
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5928.360        | 52.29          | -6.88         | 45.41          | 68.20          | -22.79      | peak     | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

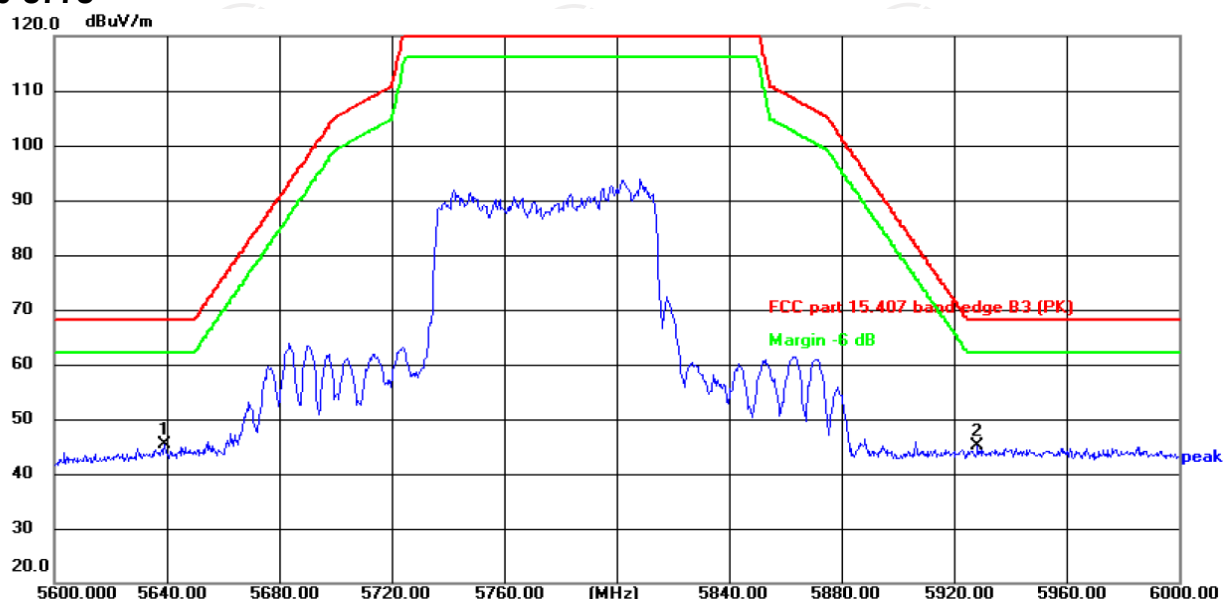
Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5974.776        | 52.52          | -6.65         | 45.87          | 68.20          | -22.33      | peak     | P   |        |

## AX80-5775



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

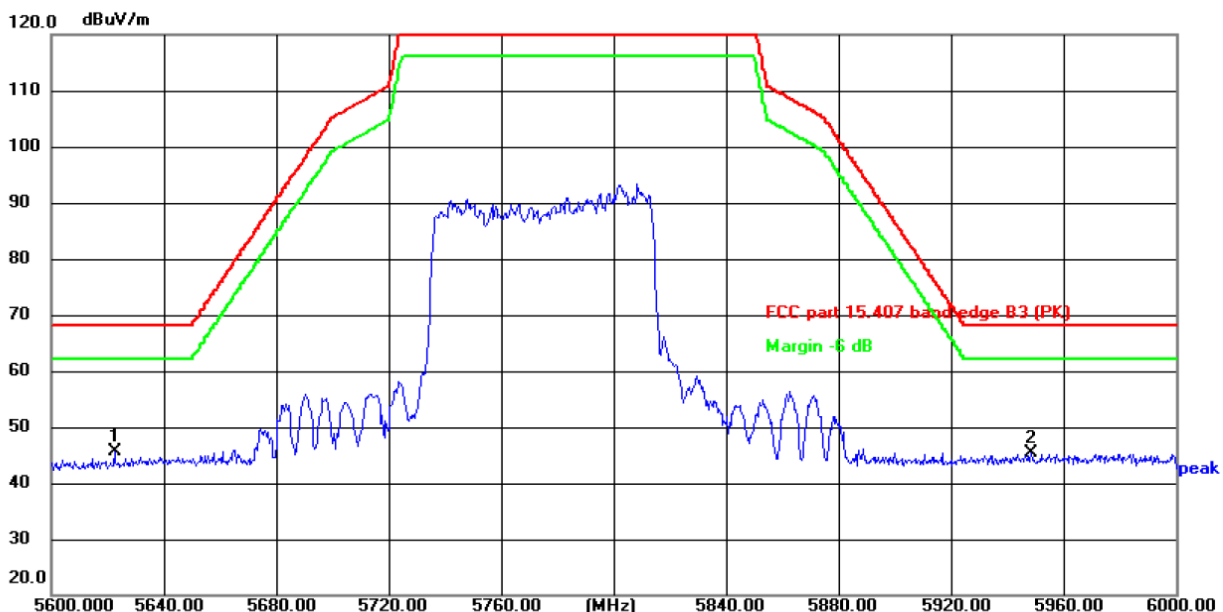
Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5639.440        | 52.92          | -7.43         | 45.49          | 68.20          | -22.71      | peak     | P   |        |
| 2   | 5928.680        | 52.13          | -6.88         | 45.25          | 68.20          | -22.95      | peak     | P   |        |



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 23.7(°C)

Humidity: 57 %

Limit: FCC part 15.407 band edge B3 (PK)

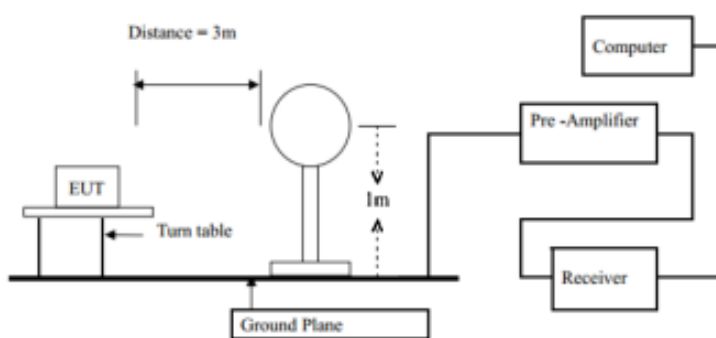
Power: AC 120 V/60 Hz

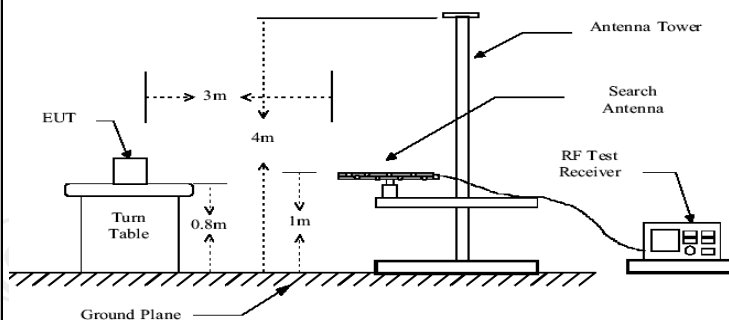
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 * | 5622.720        | 53.35          | -7.66         | 45.69          | 68.20          | -22.51      | peak     | P   |        |
| 2   | 5948.600        | 52.15          | -6.80         | 45.35          | 68.20          | -22.85      | peak     | P   |        |

Note: All modulation (802.11a, 802.11n, 802.11ac, 802.11ax) have been tested, only the worst case in 802.11ax be reported.

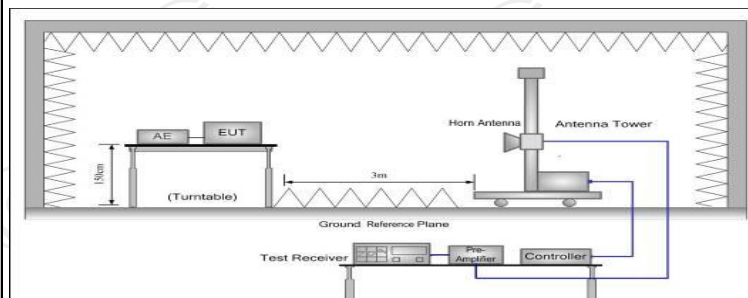
## 5.8. Unwanted Emissions

### 5.8.1. Test Specification

|                       |                                                                                                                                                                                             |            |                                   |                               |                  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|-------------------------------|------------------|
| Test Requirement:     | FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205                                                                                                                                          |            |                                   |                               |                  |
| Test Method:          | KDB 789033 D02 v02r01                                                                                                                                                                       |            |                                   |                               |                  |
| Frequency Range:      | 9kHz to 40GHz                                                                                                                                                                               |            |                                   |                               |                  |
| Measurement Distance: | 3 m                                                                                                                                                                                         |            |                                   |                               |                  |
| Antenna Polarization: | Horizontal & Vertical                                                                                                                                                                       |            |                                   |                               |                  |
| Operation mode:       | Transmitting mode with modulation                                                                                                                                                           |            |                                   |                               |                  |
| Receiver Setup:       | Frequency                                                                                                                                                                                   | Detector   | RBW                               | VBW                           | Remark           |
|                       | 9kHz- 150kHz                                                                                                                                                                                | Quasi-peak | 200Hz                             | 1kHz                          | Quasi-peak Value |
|                       | 150kHz- 30MHz                                                                                                                                                                               | Quasi-peak | 9kHz                              | 30kHz                         | Quasi-peak Value |
|                       | 30MHz-1GHz                                                                                                                                                                                  | Quasi-peak | 120KHz                            | 300KHz                        | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                  | Peak       | 1MHz                              | 3MHz                          | Peak Value       |
| Peak                  |                                                                                                                                                                                             | 1MHz       | 10Hz                              | Average Value                 |                  |
| Limit:                | Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,<br>In restricted bands: |            |                                   |                               |                  |
|                       | Frequency                                                                                                                                                                                   |            | Detector                          |                               | Limit@3m         |
|                       | Above 1G                                                                                                                                                                                    |            | Peak                              |                               | 74dB $\mu$ V/m   |
|                       |                                                                                                                                                                                             |            | AVG                               |                               | 54dB $\mu$ V/m   |
|                       | Frequency                                                                                                                                                                                   |            | Field Strength (microvolts/meter) | Measurement Distance (meters) |                  |
|                       | 0.009-0.490                                                                                                                                                                                 |            | 2400/F(KHz)                       | 300                           |                  |
|                       | 0.490-1.705                                                                                                                                                                                 |            | 24000/F(KHz)                      | 3                             |                  |
|                       | 1.705-30                                                                                                                                                                                    |            | 30                                | 30                            |                  |
|                       | 30-88                                                                                                                                                                                       |            | 100                               | 3                             |                  |
|                       | 88-216                                                                                                                                                                                      |            | 150                               | 3                             |                  |
| 216-960               |                                                                                                                                                                                             | 200        | 3                                 |                               |                  |
| Above 960             |                                                                                                                                                                                             | 500        | 3                                 |                               |                  |
| Test setup:           | In un-restricted bands: 68.2dBuV/m                                                                                                                                                          |            |                                   |                               |                  |
|                       | For radiated emissions below 30MHz                                                                                                                                                          |            |                                   |                               |                  |
| Test setup:           |                                                                                                         |            |                                   |                               |                  |
|                       | 30MHz to 1GHz                                                                                                                                                                               |            |                                   |                               |                  |



Above 1GHz



#### Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

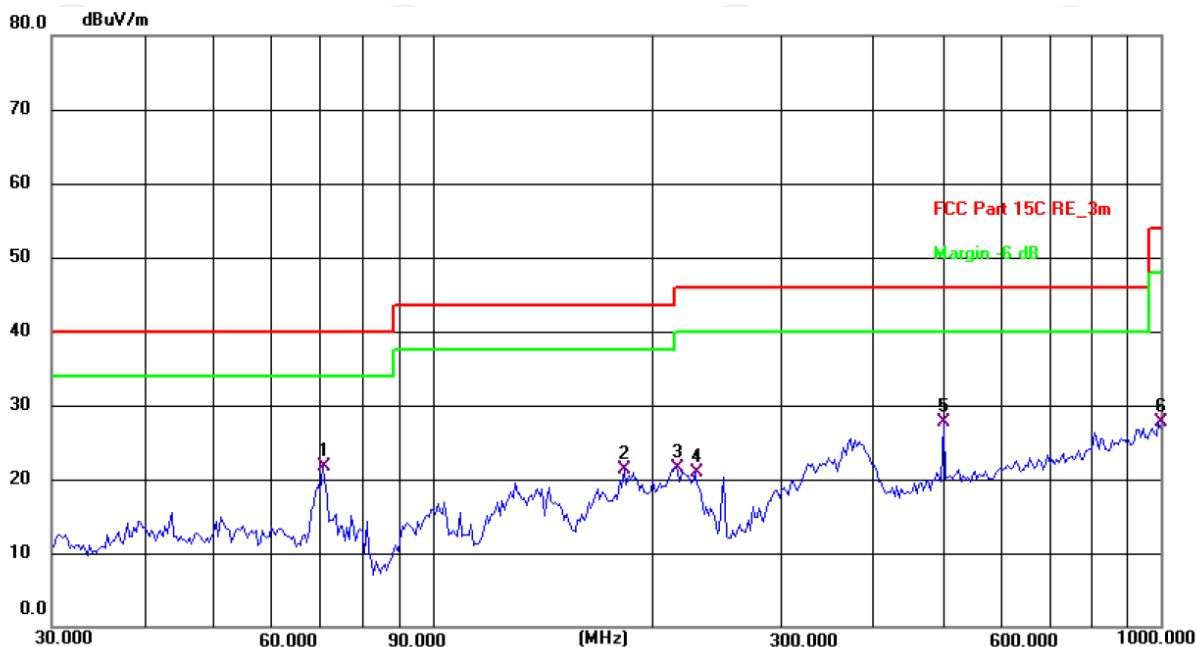
#### Test results:

PASS

## 5.8.2. Test Data

Please refer to following diagram for individual  
Below 1GHz

Horizontal:



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 24.3(C)

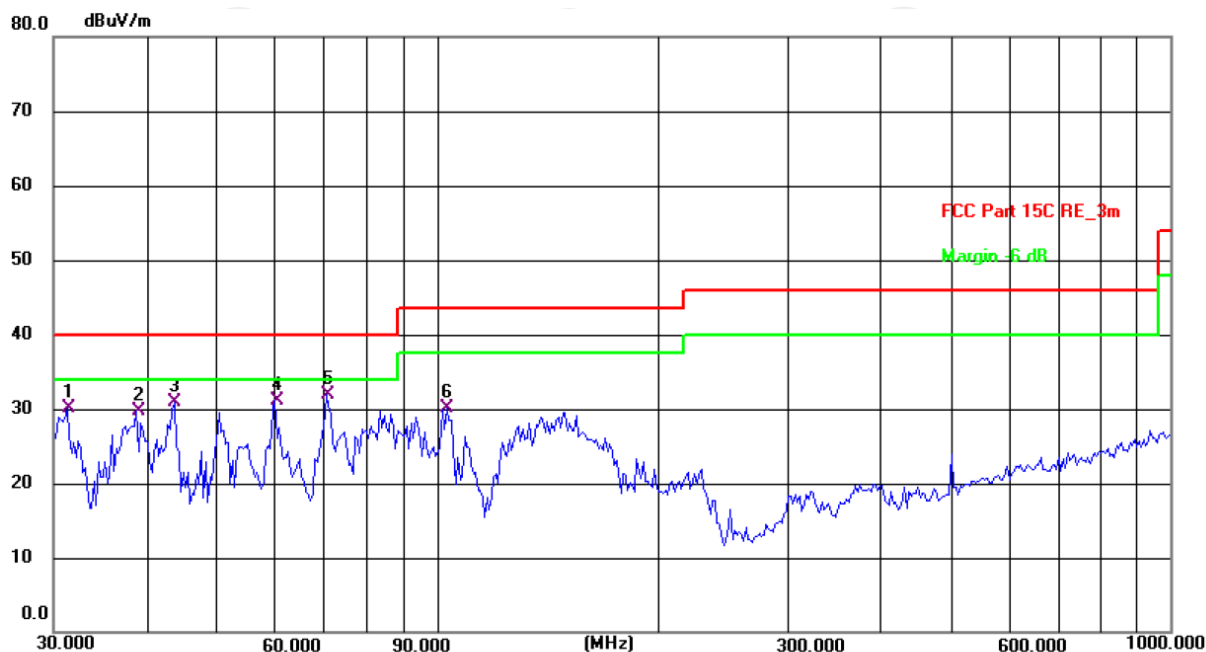
Humidity: 50 %

Limit: FCC Part 15C RE\_3m

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 70.5836         | 36.11          | -14.50        | 21.61          | 40.00          | -18.39      | QP       | P   |        |
| 2   | 183.2005        | 34.86          | -13.47        | 21.39          | 43.50          | -22.11      | QP       | P   |        |
| 3   | 215.2678        | 36.11          | -14.53        | 21.58          | 43.50          | -21.92      | QP       | P   |        |
| 4   | 229.2931        | 34.76          | -13.84        | 20.92          | 46.00          | -25.08      | QP       | P   |        |
| 5 * | 502.9395        | 34.34          | -6.60         | 27.74          | 46.00          | -18.26      | QP       | P   |        |
| 6   | 993.0114        | 26.18          | 1.45          | 27.63          | 54.00          | -26.37      | QP       | P   |        |

Vertical:



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 24.3(C) Humidity: 50 %

Limit: FCC Part 15C RE\_3m

Power: AC 120 V/60 Hz

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 31.2893         | 43.68          | -13.54        | 30.14          | 40.00          | -9.86       | QP       | P   |        |
| 2   | 38.8878         | 42.20          | -12.44        | 29.76          | 40.00          | -10.24      | QP       | P   |        |
| 3   | 43.8119         | 43.40          | -12.54        | 30.86          | 40.00          | -9.14       | QP       | P   |        |
| 4   | 60.0691         | 44.15          | -13.09        | 31.06          | 40.00          | -8.94       | QP       | P   |        |
| 5 * | 70.5836         | 46.42          | -14.50        | 31.92          | 40.00          | -8.08       | QP       | P   |        |
| 6   | 103.0800        | 45.14          | -15.05        | 30.09          | 43.50          | -13.41      | QP       | P   |        |

- Note:**
1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
  2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ax(VHT20), 802.11ax(VHT40), 802.11ax(VHT80)) and the worst case Mode (Channel 157 and 802.11ax(VHT20) transmit with antenna 1) was submitted only.
  3. Measurement (dBuV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

| Modulation Type: Band 1 |               |                     |                   |                          |                |             |                     |                   |             |
|-------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| 11a CH36: 5180MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10360                   | H             | 38.79               | ---               | 8.02                     | 46.81          | ---         | 68.2                | ---               | -21.39      |
| 15540                   | H             | 37.01               | ---               | 9.87                     | 46.88          | ---         | 74                  | 54                | -7.12       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10360                   | V             | 38.43               | ---               | 8.02                     | 46.45          | ---         | 68.2                | ---               | -21.75      |
| 15540                   | V             | 37.51               | ---               | 9.87                     | 47.38          | ---         | 74                  | 54                | -6.62       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11a CH40: 5200MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10400                   | H             | 39.61               | ---               | 7.97                     | 47.58          | ---         | 68.2                | ---               | -20.62      |
| 15600                   | H             | 38.15               | ---               | 9.83                     | 47.98          | ---         | 74                  | 54                | -6.02       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10400                   | V             | 40.31               | ---               | 7.97                     | 48.28          | ---         | 68.2                | ---               | -19.92      |
| 15600                   | V             | 38.68               | ---               | 9.83                     | 48.51          | ---         | 74                  | 54                | -5.49       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11a CH48: 5240MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10480                   | H             | 38.16               | ---               | 7.97                     | 46.13          | ---         | 68.2                | ---               | -22.07      |
| 15720                   | H             | 37.19               | ---               | 9.83                     | 47.02          | ---         | 74                  | 54                | -6.98       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10480                   | V             | 38.06               | ---               | 7.97                     | 46.03          | ---         | 68.2                | ---               | -22.17      |
| 15720                   | V             | 36.42               | ---               | 9.83                     | 46.25          | ---         | 74                  | 54                | -7.75       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT20) CH36: 5180MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10360                   | H             | 41.76               | ---               | 8.02                     | 49.78          | ---         | 68.2                | ---               | -18.42      |
| 15540                   | H             | 37.55               | ---               | 9.87                     | 47.42          | ---         | 74                  | 54                | -6.58       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10360                   | V             | 42.11               | ---               | 8.02                     | 50.13          | ---         | 68.2                | ---               | -18.07      |
| 15540                   | V             | 37.87               | ---               | 9.87                     | 47.74          | ---         | 74                  | 54                | -6.26       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11n(HT20) CH40: 5200MHz |               |                     |                   |                          |                |             |                     |                   |             |
|-------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10400                   | H             | 40.35               | ---               | 7.97                     | 48.32          | ---         | 68.2                | ---               | -19.88      |
| 15600                   | H             | 38.93               | ---               | 9.83                     | 48.76          | ---         | 74                  | 54                | -5.24       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10400                   | V             | 40.86               | ---               | 7.97                     | 48.83          | ---         | 68.2                | ---               | -19.37      |
| 15600                   | V             | 37.01               | ---               | 9.83                     | 46.84          | ---         | 74                  | 54                | -7.16       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT20) CH48: 5240MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10480                   | H             | 41.12               | ---               | 7.97                     | 49.09          | ---         | 68.2                | ---               | -19.11      |
| 15720                   | H             | 37.65               | ---               | 9.83                     | 47.48          | ---         | 74                  | 54                | -6.52       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10480                   | V             | 40.31               | ---               | 7.97                     | 48.28          | ---         | 68.2                | ---               | -19.92      |
| 15720                   | V             | 38.23               | ---               | 9.83                     | 48.06          | ---         | 74                  | 54                | -5.94       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT40) CH38: 5190MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10380                   | H             | 39.27               | ---               | 7.75                     | 47.02          | ---         | 68.2                | ---               | -21.18      |
| 15570                   | H             | 37.91               | ---               | 9.87                     | 47.78          | ---         | 74                  | 54                | -6.22       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10380                   | V             | 40.56               | ---               | 7.75                     | 48.31          | ---         | 68.2                | ---               | -19.89      |
| 15570                   | V             | 37.37               | ---               | 9.87                     | 47.24          | ---         | 74                  | 54                | -6.76       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT40) CH46: 5230MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)         | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                         |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10460                   | H             | 41.45               | ---               | 7.97                     | 49.42          | ---         | 68.2                | ---               | -18.78      |
| 15690                   | H             | 38.36               | ---               | 9.83                     | 48.19          | ---         | 74                  | 54                | -5.81       |
| ---                     | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10460                   | V             | 41.22               | ---               | 7.97                     | 49.19          | ---         | 68.2                | ---               | -19.01      |
| 15690                   | V             | 38.63               | ---               | 9.83                     | 48.46          | ---         | 74                  | 54                | -5.54       |
| ---                     | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ac(VHT20) CH36: 5180MHz |               |                     |                   |                          |                |             |                     |                   |             |
|---------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10360                     | H             | 40.93               | ---               | 8.02                     | 48.95          | ---         | 68.2                | ---               | -19.25      |
| 15540                     | H             | 37.54               | ---               | 9.87                     | 47.41          | ---         | 74                  | 54                | -6.59       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10360                     | V             | 38.67               | ---               | 8.02                     | 46.69          | ---         | 68.2                | ---               | -21.51      |
| 15540                     | V             | 37.99               | ---               | 9.87                     | 47.86          | ---         | 74                  | 54                | -6.14       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT20) CH40: 5200MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10400                     | H             | 39.45               | ---               | 7.97                     | 47.42          | ---         | 68.2                | ---               | -20.78      |
| 15600                     | H             | 38.39               | ---               | 9.83                     | 48.22          | ---         | 74                  | 54                | -5.78       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10400                     | V             | 39.52               | ---               | 7.97                     | 47.49          | ---         | 68.2                | ---               | -20.71      |
| 15600                     | V             | 38.84               | ---               | 9.83                     | 48.67          | ---         | 74                  | 54                | -5.33       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT20) CH48:5240     |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10480                     | H             | 37.71               | ---               | 7.97                     | 45.68          | ---         | 68.2                | ---               | -22.52      |
| 15720                     | H             | 37.65               | ---               | 9.83                     | 47.48          | ---         | 74                  | 54                | -6.52       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10480                     | V             | 38.83               | ---               | 7.97                     | 46.8           | ---         | 68.2                | ---               | -21.4       |
| 15720                     | V             | 38.01               | ---               | 9.83                     | 47.84          | ---         | 74                  | 54                | -6.16       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT40) CH38:5190     |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10380                     | H             | 40.19               | ---               | 7.75                     | 47.94          | ---         | 68.2                | ---               | -20.26      |
| 15570                     | H             | 39.38               | ---               | 9.87                     | 49.25          | ---         | 74                  | 54                | -4.75       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10380                     | V             | 38.49               | ---               | 7.75                     | 46.24          | ---         | 68.2                | ---               | -21.96      |
| 15570                     | V             | 38.26               | ---               | 9.87                     | 48.13          | ---         | 74                  | 54                | -5.87       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ac(VHT40) CH46:5230     |               |                     |                   |                          |                |             |                     |                   |             |
|---------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10460                     | H             | 38.21               | ---               | 7.97                     | 46.18          | ---         | 68.2                | ---               | -22.02      |
| 15690                     | H             | 38.66               | ---               | 9.83                     | 48.49          | ---         | 74                  | 54                | -5.51       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10460                     | V             | 39.87               | ---               | 7.97                     | 47.84          | ---         | 68.2                | ---               | -20.36      |
| 15690                     | V             | 37.33               | ---               | 9.83                     | 47.16          | ---         | 74                  | 54                | -6.84       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT80) CH42:5210     |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10420                     | H             | 41.98               | ---               | 7.96                     | 49.94          | ---         | 68.2                | ---               | -18.26      |
| 15630                     | H             | 39.54               | ---               | 9.84                     | 49.38          | ---         | 74                  | 54                | -4.62       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10420                     | V             | 41.11               | ---               | 7.96                     | 49.07          | ---         | 68.2                | ---               | -19.13      |
| 15630                     | V             | 39.42               | ---               | 9.84                     | 49.26          | ---         | 74                  | 54                | -4.74       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT20) CH36: 5180MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10360                     | H             | 39.85               | ---               | 8.02                     | 47.87          | ---         | 68.2                | ---               | -20.33      |
| 15540                     | H             | 37.11               | ---               | 9.87                     | 46.98          | ---         | 74                  | 54                | -7.02       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10360                     | V             | 38.33               | ---               | 8.02                     | 46.35          | ---         | 68.2                | ---               | -21.85      |
| 15540                     | V             | 38.05               | ---               | 9.87                     | 47.92          | ---         | 74                  | 54                | -6.08       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT20) CH40: 5200MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)           | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                           |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10400                     | H             | 39.41               | ---               | 7.97                     | 47.38          | ---         | 68.2                | ---               | -20.82      |
| 15600                     | H             | 38.91               | ---               | 9.83                     | 48.74          | ---         | 74                  | 54                | -5.26       |
| ---                       | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10400                     | V             | 39.58               | ---               | 7.97                     | 47.55          | ---         | 68.2                | ---               | -20.65      |
| 15600                     | V             | 38.16               | ---               | 9.83                     | 47.99          | ---         | 74                  | 54                | -6.01       |
| ---                       | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ax(VHT20) CH48:5240 |               |                     |                   |                          |                |             |                     |                   |             |
|-----------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)       | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                       |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10480                 | H             | 37.64               | ---               | 7.97                     | 45.61          | ---         | 68.2                | ---               | -22.59      |
| 15720                 | H             | 37.35               | ---               | 9.83                     | 47.18          | ---         | 74                  | 54                | -6.82       |
| ---                   | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10480                 | V             | 38.24               | ---               | 7.97                     | 46.21          | ---         | 68.2                | ---               | -21.99      |
| 15720                 | V             | 38.19               | ---               | 9.83                     | 48.02          | ---         | 74                  | 54                | -5.98       |
| ---                   | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT40) CH38:5190 |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)       | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                       |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10380                 | H             | 40.29               | ---               | 7.75                     | 48.04          | ---         | 68.2                | ---               | -20.16      |
| 15570                 | H             | 39.64               | ---               | 9.87                     | 49.51          | ---         | 74                  | 54                | -4.49       |
| ---                   | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10380                 | V             | 38.31               | ---               | 7.75                     | 46.06          | ---         | 68.2                | ---               | -22.14      |
| 15570                 | V             | 38.95               | ---               | 9.87                     | 48.82          | ---         | 74                  | 54                | -5.18       |
| ---                   | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT40) CH46:5230 |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)       | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                       |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10460                 | H             | 38.52               | ---               | 7.97                     | 46.49          | ---         | 68.2                | ---               | -21.71      |
| 15690                 | H             | 38.92               | ---               | 9.83                     | 48.75          | ---         | 74                  | 54                | -5.25       |
| ---                   | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10460                 | V             | 39.91               | ---               | 7.97                     | 47.88          | ---         | 68.2                | ---               | -20.32      |
| 15690                 | V             | 37.42               | ---               | 9.83                     | 47.25          | ---         | 74                  | 54                | -6.75       |
| ---                   | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ax(VHT80) CH42:5210 |               |                     |                   |                          |                |             |                     |                   |             |
|-----------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)       | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                       |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 10420                 | H             | 41.01               | ---               | 7.96                     | 48.97          | ---         | 68.2                | ---               | -19.23      |
| 15630                 | H             | 39.62               | ---               | 9.84                     | 49.46          | ---         | 74                  | 54                | -4.54       |
| ---                   | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 10420                 | V             | 41.11               | ---               | 7.96                     | 49.07          | ---         | 68.2                | ---               | -19.13      |
| 15630                 | V             | 39.87               | ---               | 9.84                     | 49.71          | ---         | 74                  | 54                | -4.29       |
| ---                   | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

**Note:**

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

| Modulation Type: Band 3  |               |                     |                   |                          |                |             |                     |                   |             |
|--------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| 11a CH149: 5745MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11490                    | H             | 37.18               | ---               | 8.09                     | 45.27          | ---         | 74                  | 54                | -8.73       |
| 17235                    | H             | 37.62               | ---               | 9.67                     | 47.29          | ---         | 68.2                | ---               | -20.91      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11490                    | V             | 40.01               | ---               | 8.09                     | 48.1           | ---         | 74                  | 54                | -5.9        |
| 17235                    | V             | 38.65               | ---               | 9.67                     | 48.32          | ---         | 68.2                | ---               | -19.88      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11a CH157: 5785MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11570                    | H             | 39.52               | ---               | 8.10                     | 47.62          | ---         | 74                  | 54                | -6.38       |
| 17355                    | H             | 38.46               | ---               | 9.65                     | 48.11          | ---         | 68.2                | ---               | -20.09      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11570                    | V             | 38.75               | ---               | 8.10                     | 46.85          | ---         | 74                  | 54                | -7.15       |
| 17355                    | V             | 39.18               | ---               | 9.65                     | 48.83          | ---         | 68.2                | ---               | -19.37      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11a CH165: 5825MHz       |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11650                    | H             | 37.55               | ---               | 8.12                     | 45.67          | ---         | 74                  | 54                | -8.33       |
| 17475                    | H             | 36.46               | ---               | 9.62                     | 46.08          | ---         | 68.2                | ---               | -22.12      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11650                    | V             | 38.28               | ---               | 8.12                     | 46.4           | ---         | 74                  | 54                | -7.6        |
| 17475                    | V             | 38.19               | ---               | 9.62                     | 47.81          | ---         | 68.2                | ---               | -20.39      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT20) CH149: 5745MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11490                    | H             | 38.29               | ---               | 8.09                     | 46.38          | ---         | 74                  | 54                | -7.62       |
| 17235                    | H             | 38.74               | ---               | 9.67                     | 48.41          | ---         | 68.2                | ---               | -19.79      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11490                    | V             | 39.13               | ---               | 8.09                     | 47.22          | ---         | 74                  | 54                | -6.78       |
| 17235                    | V             | 37.97               | ---               | 9.67                     | 47.64          | ---         | 68.2                | ---               | -20.56      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11n(HT20) CH157: 5785MHz |               |                     |                   |                          |                |             |                     |                   |             |
|--------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11570                    | H             | 38.41               | ---               | 8.10                     | 46.51          | ---         | 74                  | 54                | -7.49       |
| 17355                    | H             | 39.22               | ---               | 9.65                     | 48.87          | ---         | 68.2                | ---               | -19.33      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11570                    | V             | 38.09               | ---               | 8.10                     | 46.19          | ---         | 74                  | 54                | -7.81       |
| 17355                    | V             | 39.34               | ---               | 9.65                     | 48.99          | ---         | 68.2                | ---               | -19.21      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT20) CH165: 5825MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11650                    | H             | 38.41               | ---               | 8.12                     | 46.53          | ---         | 74                  | 54                | -7.47       |
| 17475                    | H             | 37.33               | ---               | 9.62                     | 46.95          | ---         | 68.2                | ---               | -21.25      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11650                    | V             | 38.71               | ---               | 8.12                     | 46.83          | ---         | 74                  | 54                | -7.17       |
| 17475                    | V             | 37.59               | ---               | 9.62                     | 47.21          | ---         | 68.2                | ---               | -20.99      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT40) CH151: 5755MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11510                    | H             | 40.13               | ---               | 8.09                     | 48.22          | ---         | 74                  | 54                | -5.78       |
| 17265                    | H             | 37.06               | ---               | 9.67                     | 46.73          | ---         | 68.2                | ---               | -21.47      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11510                    | V             | 41.48               | ---               | 8.09                     | 49.57          | ---         | 74                  | 54                | -4.43       |
| 17265                    | V             | 38.92               | ---               | 9.67                     | 48.59          | ---         | 68.2                | ---               | -19.61      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11n(HT40) CH159: 5795MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)          | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                          |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11590                    | H             | 38.51               | ---               | 8.10                     | 46.61          | ---         | 74                  | 54                | -7.39       |
| 17385                    | H             | 38.26               | ---               | 9.65                     | 47.91          | ---         | 68.2                | ---               | -20.29      |
| ---                      | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11590                    | V             | 38.74               | ---               | 8.10                     | 46.84          | ---         | 74                  | 54                | -7.16       |
| 17385                    | V             | 37.62               | ---               | 9.65                     | 47.27          | ---         | 68.2                | ---               | -20.93      |
| ---                      | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ac(VHT20) CH149: 5745MHz |               |                     |                   |                          |                |             |                     |                   |             |
|----------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11490                      | H             | 40.93               | ---               | 8.09                     | 49.02          | ---         | 74                  | 54                | -4.98       |
| 17235                      | H             | 37.41               | ---               | 9.67                     | 47.08          | ---         | 68.2                | ---               | -21.12      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11490                      | V             | 40.08               | ---               | 8.09                     | 48.17          | ---         | 74                  | 54                | -5.83       |
| 17235                      | V             | 38.62               | ---               | 9.67                     | 48.29          | ---         | 68.2                | ---               | -19.91      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT20) CH157: 5785MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11570                      | H             | 38.85               | ---               | 8.10                     | 46.95          | ---         | 74                  | 54                | -7.05       |
| 17355                      | H             | 36.02               | ---               | 9.65                     | 45.67          | ---         | 68.2                | ---               | -22.53      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11570                      | V             | 37.43               | ---               | 8.10                     | 45.53          | ---         | 74                  | 54                | -8.47       |
| 17355                      | V             | 38.01               | ---               | 9.65                     | 47.66          | ---         | 68.2                | ---               | -20.54      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT20) CH165: 5825MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11650                      | H             | 40.94               | ---               | 8.12                     | 49.06          | ---         | 74                  | 54                | -4.94       |
| 17475                      | H             | 38.18               | ---               | 9.62                     | 47.8           | ---         | 68.2                | ---               | -20.4       |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11650                      | V             | 38.71               | ---               | 8.12                     | 46.83          | ---         | 74                  | 54                | -7.17       |
| 17475                      | V             | 40.54               | ---               | 9.62                     | 50.16          | ---         | 68.2                | ---               | -18.04      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT40) CH151: 5755MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11510                      | H             | 39.03               | ---               | 8.09                     | 47.12          | ---         | 74                  | 54                | -6.88       |
| 17265                      | H             | 37.89               | ---               | 9.67                     | 47.56          | ---         | 68.2                | ---               | -20.64      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11510                      | V             | 40.31               | ---               | 8.09                     | 48.4           | ---         | 74                  | 54                | -5.6        |
| 17265                      | V             | 36.18               | ---               | 9.67                     | 45.85          | ---         | 68.2                | ---               | -22.35      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ac(VHT40) CH159: 5795MHz |               |                     |                   |                          |                |             |                     |                   |             |
|----------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11590                      | H             | 40.82               | ---               | 8.10                     | 48.92          | ---         | 74                  | 54                | -5.08       |
| 17385                      | H             | 37.41               | ---               | 9.65                     | 47.06          | ---         | 68.2                | ---               | -21.14      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11590                      | V             | 39.36               | ---               | 8.10                     | 47.46          | ---         | 74                  | 54                | -6.54       |
| 17385                      | V             | 38.21               | ---               | 9.65                     | 47.86          | ---         | 68.2                | ---               | -20.34      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ac(VHT80) CH155: 5775MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11550                      | H             | 40.55               | ---               | 8.09                     | 48.64          | ---         | 74                  | 54                | -5.36       |
| 17325                      | H             | 38.19               | ---               | 9.66                     | 47.85          | ---         | 68.2                | ---               | -20.35      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11550                      | V             | 41.34               | ---               | 8.09                     | 49.43          | ---         | 74                  | 54                | -4.57       |
| 17325                      | V             | 39.65               | ---               | 9.66                     | 49.31          | ---         | 68.2                | ---               | -18.89      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT20) CH149: 5745MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11490                      | H             | 40.03               | ---               | 8.09                     | 48.12          | ---         | 74                  | 54                | -5.88       |
| 17235                      | H             | 37.69               | ---               | 9.67                     | 47.36          | ---         | 68.2                | ---               | -20.84      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11490                      | V             | 40.72               | ---               | 8.09                     | 48.81          | ---         | 74                  | 54                | -5.19       |
| 17235                      | V             | 38.47               | ---               | 9.67                     | 48.14          | ---         | 68.2                | ---               | -20.06      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT20) CH157: 5785MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11570                      | H             | 38.21               | ---               | 8.10                     | 46.31          | ---         | 74                  | 54                | -7.69       |
| 17355                      | H             | 38.54               | ---               | 9.65                     | 48.19          | ---         | 68.2                | ---               | -20.01      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11570                      | V             | 37.43               | ---               | 8.10                     | 45.53          | ---         | 74                  | 54                | -8.47       |
| 17355                      | V             | 38.94               | ---               | 9.65                     | 48.59          | ---         | 68.2                | ---               | -19.61      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

| 11ax(VHT20) CH165: 5825MHz |               |                     |                   |                          |                |             |                     |                   |             |
|----------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11650                      | H             | 40.19               | ---               | 8.12                     | 48.31          | ---         | 74                  | 54                | -5.69       |
| 17475                      | H             | 38.52               | ---               | 9.62                     | 48.14          | ---         | 68.2                | ---               | -20.06      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11650                      | V             | 38.61               | ---               | 8.12                     | 46.73          | ---         | 74                  | 54                | -7.27       |
| 17475                      | V             | 40.48               | ---               | 9.62                     | 50.1           | ---         | 68.2                | ---               | -18.1       |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT40) CH151: 5755MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11510                      | H             | 39.38               | ---               | 8.09                     | 47.47          | ---         | 74                  | 54                | -6.53       |
| 17265                      | H             | 37.26               | ---               | 9.67                     | 46.93          | ---         | 68.2                | ---               | -21.27      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11510                      | V             | 40.01               | ---               | 8.09                     | 48.1           | ---         | 74                  | 54                | -5.9        |
| 17265                      | V             | 36.46               | ---               | 9.67                     | 46.13          | ---         | 68.2                | ---               | -22.07      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11ax(VHT40) CH159: 5795MHz |               |                     |                   |                          |                |             |                     |                   |             |
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11590                      | H             | 40.27               | ---               | 8.10                     | 48.37          | ---         | 74                  | 54                | -5.63       |
| 17385                      | H             | 37.04               | ---               | 9.65                     | 46.69          | ---         | 68.2                | ---               | -21.51      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11590                      | V             | 39.17               | ---               | 8.10                     | 47.27          | ---         | 74                  | 54                | -6.73       |
| 17385                      | V             | 38.36               | ---               | 9.65                     | 48.01          | ---         | 68.2                | ---               | -20.19      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

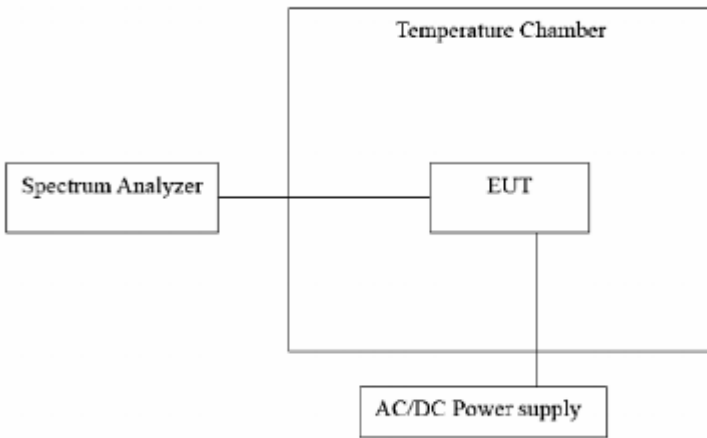
| 11ax(VHT80) CH155: 5775MHz |               |                     |                   |                          |                |             |                     |                   |             |
|----------------------------|---------------|---------------------|-------------------|--------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Frequency (MHz)            | Ant. Pol. H/V | Peak reading (dBμV) | AV reading (dBμV) | Correction Factor (dB/m) | Emission Level |             | Peak limit (dBμV/m) | AV limit (dBμV/m) | Margin (dB) |
|                            |               |                     |                   |                          | Peak (dBμV/m)  | AV (dBμV/m) |                     |                   |             |
| 11550                      | H             | 40.35               | ---               | 8.09                     | 48.44          | ---         | 74                  | 54                | -5.56       |
| 17325                      | H             | 38.12               | ---               | 9.66                     | 47.78          | ---         | 68.2                | ---               | -20.42      |
| ---                        | H             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |
| 11550                      | V             | 41.29               | ---               | 8.09                     | 49.38          | ---         | 74                  | 54                | -4.62       |
| 17325                      | V             | 9                   | ---               | 9.66                     | 18.66          | ---         | 68.2                | ---               | -49.54      |
| ---                        | V             | ---                 | ---               | ---                      | ---            | ---         | ---                 | ---               | ---         |

## Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

## 5.9. Frequency Stability Measurement

### 5.9.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 Section 15.407(g) &Part2 J Section 2.1055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Method:</b>      | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Limit:</b>            | The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.                                                                                                                                                                                                                                                                                                                |
| <b>Test Setup:</b>       |  <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]     subgraph TC [Temperature Chamber]         EUT     end     EUT --- P[AC/DC Power supply]             </pre>                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Procedure:</b>   | The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record. |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Remark:</b>           | Pre-scan was performed at Antenna 1 and Antenna 2, the worst case was found. Only the test data of Antenna 1 was shown in this report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Test plots as follows:

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5180   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5180.04                    | 40000               | PASS   |
| 35               |                           | 5180.02                    | 20000               | PASS   |
| 25               |                           | 5180.02                    | 20000               | PASS   |
| 15               |                           | 5180.02                    | 20000               | PASS   |
| 5                |                           | 5180.02                    | 20000               | PASS   |
| 0                |                           | 5180.04                    | 40000               | PASS   |
| 20               | 100V                      | 5180.06                    | 60000               | PASS   |
|                  | 120V                      | 5180.04                    | 40000               | PASS   |
|                  | 240V                      | 5180.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5200   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5200.04                    | 40000               | PASS   |
| 35               |                           | 5200.04                    | 40000               | PASS   |
| 25               |                           | 5200.04                    | 40000               | PASS   |
| 15               |                           | 5200.04                    | 40000               | PASS   |
| 5                |                           | 5200.04                    | 40000               | PASS   |
| 0                |                           | 5200.02                    | 20000               | PASS   |
| 20               | 100V                      | 5200.04                    | 40000               | PASS   |
|                  | 120V                      | 5200.04                    | 40000               | PASS   |
|                  | 240V                      | 5200.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5240   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5240.04                    | 40000               | PASS   |
| 35               |                           | 5240.04                    | 40000               | PASS   |
| 25               |                           | 5240.04                    | 40000               | PASS   |
| 15               |                           | 5240.04                    | 40000               | PASS   |
| 5                |                           | 5240.04                    | 40000               | PASS   |
| 0                |                           | 5240.04                    | 40000               | PASS   |
| 20               | 100V                      | 5240.04                    | 40000               | PASS   |
|                  | 120V                      | 5240.04                    | 40000               | PASS   |
|                  | 240V                      | 5240.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5745   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5745.04                    | 40000               | PASS   |
| 35               |                           | 5745.04                    | 40000               | PASS   |
| 25               |                           | 5745.06                    | 60000               | PASS   |
| 15               |                           | 5745.04                    | 40000               | PASS   |
| 5                |                           | 5745.04                    | 40000               | PASS   |
| 0                |                           | 5745.04                    | 40000               | PASS   |
| 20               | 100V                      | 5745.04                    | 40000               | PASS   |
|                  | 120V                      | 5745.06                    | 60000               | PASS   |
|                  | 240V                      | 5745.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5785   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5785.04                    | 40000               | PASS   |
| 35               |                           | 5785.04                    | 40000               | PASS   |
| 25               |                           | 5785.04                    | 40000               | PASS   |
| 15               |                           | 5785.04                    | 40000               | PASS   |
| 5                |                           | 5785.04                    | 40000               | PASS   |
| 0                |                           | 5785.04                    | 40000               | PASS   |
| 20               | 100V                      | 5785.04                    | 40000               | PASS   |
|                  | 120V                      | 5785.04                    | 40000               | PASS   |
|                  | 240V                      | 5785.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT20)             | Frequency(MHz):     | 5825   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5825.04                    | 40000               | PASS   |
| 35               |                           | 5825.04                    | 40000               | PASS   |
| 25               |                           | 5825.04                    | 40000               | PASS   |
| 15               |                           | 5825.04                    | 40000               | PASS   |
| 5                |                           | 5825.04                    | 40000               | PASS   |
| 0                |                           | 5825.04                    | 40000               | PASS   |
| 20               | 100V                      | 5825.04                    | 40000               | PASS   |
|                  | 120V                      | 5825.04                    | 40000               | PASS   |
|                  | 240V                      | 5825.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT40)             | Frequency(MHz):     | 5190   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5190.04                    | 40000               | PASS   |
| 35               |                           | 5190.00                    | 0                   | PASS   |
| 25               |                           | 5190.04                    | 40000               | PASS   |
| 15               |                           | 5190.04                    | 40000               | PASS   |
| 5                |                           | 5190.04                    | 40000               | PASS   |
| 0                |                           | 5190.04                    | 40000               | PASS   |
| 20               | 100V                      | 5190.04                    | 40000               | PASS   |
|                  | 120V                      | 5190.04                    | 40000               | PASS   |
|                  | 240V                      | 5190.04                    | 40000               | PASS   |

| Test mode:       |                           | 802.11ax(HT40)             | Frequency(MHz):     | 5230   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5230.08                    | 80000               | PASS   |
| 35               |                           | 5230.08                    | 80000               | PASS   |
| 25               |                           | 5230.08                    | 80000               | PASS   |
| 15               |                           | 5230.08                    | 80000               | PASS   |
| 5                |                           | 5230.08                    | 80000               | PASS   |
| 0                |                           | 5230.08                    | 80000               | PASS   |
| 20               | 100V                      | 5230.08                    | 80000               | PASS   |
|                  | 120V                      | 5230.08                    | 80000               | PASS   |
|                  | 240V                      | 5230.08                    | 80000               | PASS   |

| Test mode:       |                           | 802.11ax(HT40)             | Frequency(MHz):     | 5755   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5755.04                    | 40000               | PASS   |
| 35               |                           | 5755.00                    | 0                   | PASS   |
| 25               |                           | 5755.04                    | 40000               | PASS   |
| 15               |                           | 5755.04                    | 40000               | PASS   |
| 5                |                           | 5755.00                    | 0                   | PASS   |
| 0                |                           | 5755.04                    | 40000               | PASS   |
| 20               | 100V                      | 5755.04                    | 40000               | PASS   |
|                  | 120V                      | 5755.04                    | 40000               | PASS   |
|                  | 240V                      | 5755.00                    | 0                   | PASS   |

| Test mode:       |                           | 802.11ax(HT40)             | Frequency(MHz):     | 5795   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5795.08                    | 80000               | PASS   |
| 35               |                           | 5795.08                    | 80000               | PASS   |
| 25               |                           | 5795.08                    | 80000               | PASS   |
| 15               |                           | 5795.08                    | 80000               | PASS   |
| 5                |                           | 5795.08                    | 80000               | PASS   |
| 0                |                           | 5795.08                    | 80000               | PASS   |
| 20               | 100V                      | 5795.08                    | 80000               | PASS   |
|                  | 120V                      | 5795.08                    | 80000               | PASS   |
|                  | 240V                      | 5795.08                    | 80000               | PASS   |

| Test mode:       |                           | 802.11ax(VHT80)            | Frequency(MHz):     | 5210   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5210.08                    | 80000               | PASS   |
| 35               |                           | 5210.08                    | 80000               | PASS   |
| 25               |                           | 5210.08                    | 80000               | PASS   |
| 15               |                           | 5210.08                    | 80000               | PASS   |
| 5                |                           | 5210.08                    | 80000               | PASS   |
| 0                |                           | 5210.08                    | 80000               | PASS   |
| 20               | 100V                      | 5210.00                    | 0                   | PASS   |
|                  | 120V                      | 5210.08                    | 80000               | PASS   |
|                  | 240V                      | 5210.08                    | 80000               | PASS   |

| Test mode:       |                           | 802.11ax(VHT80)            | Frequency(MHz):     | 5775   |
|------------------|---------------------------|----------------------------|---------------------|--------|
| Temperature (°C) | Voltage(V <sub>AC</sub> ) | Measurement Frequency(MHz) | Delta Frequency(Hz) | Result |
| 45               | 120V                      | 5775.08                    | 80000               | PASS   |
| 35               |                           | 5775.08                    | 80000               | PASS   |
| 25               |                           | 5775.08                    | 80000               | PASS   |
| 15               |                           | 5775.08                    | 80000               | PASS   |
| 5                |                           | 5775.08                    | 80000               | PASS   |
| 0                |                           | 5775.08                    | 80000               | PASS   |
| 20               | 100V                      | 5775.08                    | 80000               | PASS   |
|                  | 120V                      | 5775.00                    | 0                   | PASS   |
|                  | 240V                      | 5775.08                    | 80000               | PASS   |

## Appendix A: Test Result of Conducted Test

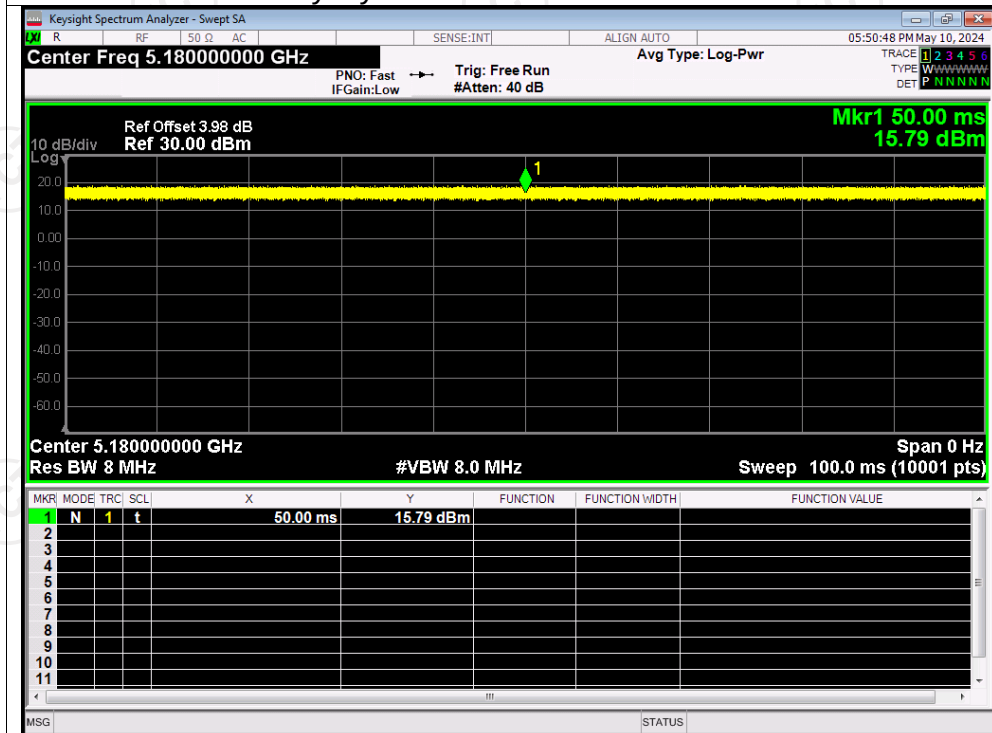
### Antenna 1

#### Duty Cycle

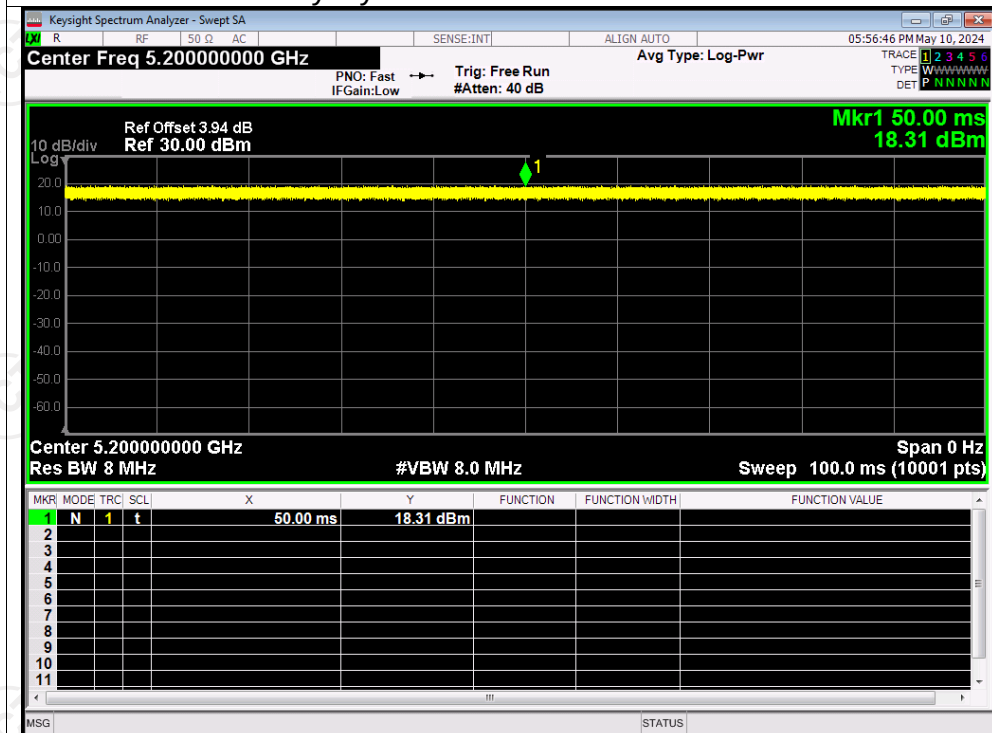
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) |
|-----------|------|-----------------|---------|----------------|
| NVNT      | a    | 5180            | Ant1    | 100            |
| NVNT      | a    | 5200            | Ant1    | 100            |
| NVNT      | a    | 5240            | Ant1    | 100            |
| NVNT      | n20  | 5180            | Ant1    | 100            |
| NVNT      | n20  | 5200            | Ant1    | 100            |
| NVNT      | n20  | 5240            | Ant1    | 100            |
| NVNT      | n40  | 5190            | Ant1    | 100            |
| NVNT      | n40  | 5230            | Ant1    | 100            |
| NVNT      | ac20 | 5180            | Ant1    | 100            |
| NVNT      | ac20 | 5200            | Ant1    | 100            |
| NVNT      | ac20 | 5240            | Ant1    | 100            |
| NVNT      | ac40 | 5190            | Ant1    | 100            |
| NVNT      | ac40 | 5230            | Ant1    | 100            |
| NVNT      | ac80 | 5210            | Ant1    | 100            |
| NVNT      | ax20 | 5180            | Ant1    | 100            |
| NVNT      | ax20 | 5200            | Ant1    | 100            |
| NVNT      | ax20 | 5240            | Ant1    | 100            |
| NVNT      | ax40 | 5190            | Ant1    | 100            |
| NVNT      | ax40 | 5230            | Ant1    | 100            |
| NVNT      | ax80 | 5210            | Ant1    | 100            |
| NVNT      | a    | 5745            | Ant1    | 100            |
| NVNT      | a    | 5785            | Ant1    | 100            |
| NVNT      | a    | 5825            | Ant1    | 100            |
| NVNT      | n20  | 5745            | Ant1    | 100            |
| NVNT      | n20  | 5785            | Ant1    | 100            |
| NVNT      | n20  | 5825            | Ant1    | 100            |
| NVNT      | n40  | 5755            | Ant1    | 100            |
| NVNT      | n40  | 5795            | Ant1    | 100            |
| NVNT      | ac20 | 5745            | Ant1    | 100            |
| NVNT      | ac20 | 5785            | Ant1    | 100            |
| NVNT      | ac20 | 5825            | Ant1    | 100            |
| NVNT      | ac40 | 5755            | Ant1    | 100            |
| NVNT      | ac40 | 5795            | Ant1    | 100            |
| NVNT      | ac80 | 5775            | Ant1    | 100            |
| NVNT      | ax20 | 5745            | Ant1    | 100            |
| NVNT      | ax20 | 5785            | Ant1    | 100            |
| NVNT      | ax20 | 5825            | Ant1    | 100            |
| NVNT      | ax40 | 5755            | Ant1    | 100            |
| NVNT      | ax40 | 5795            | Ant1    | 100            |
| NVNT      | ax80 | 5775            | Ant1    | 100            |

## Test Graphs

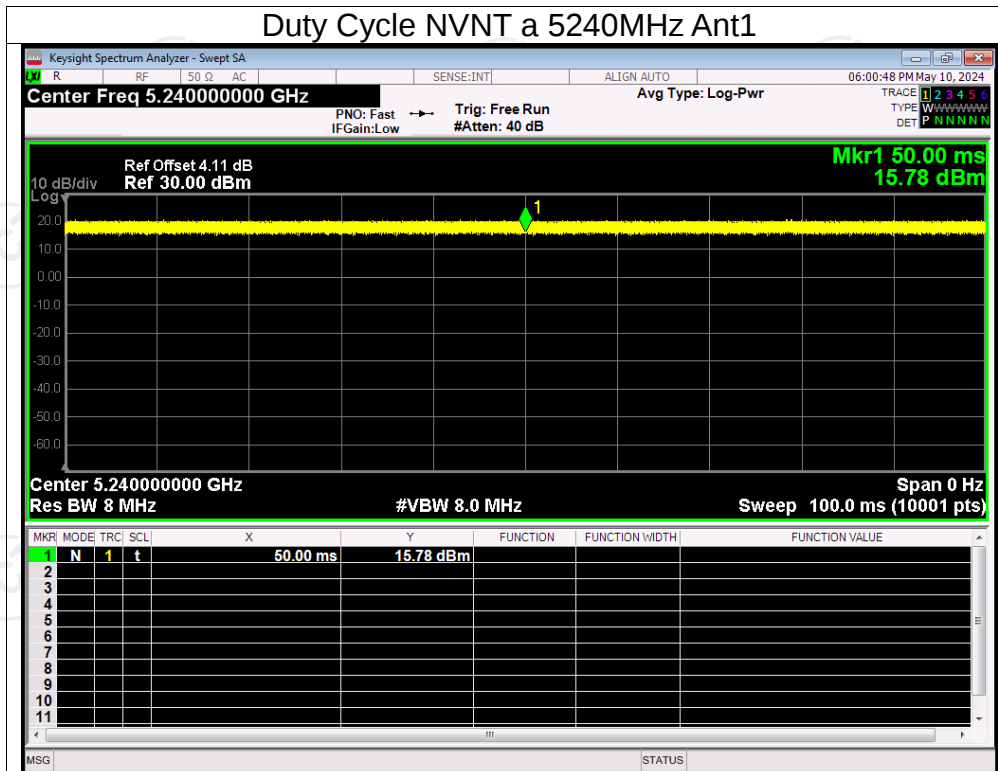
### Duty Cycle NVNT a 5180MHz Ant1



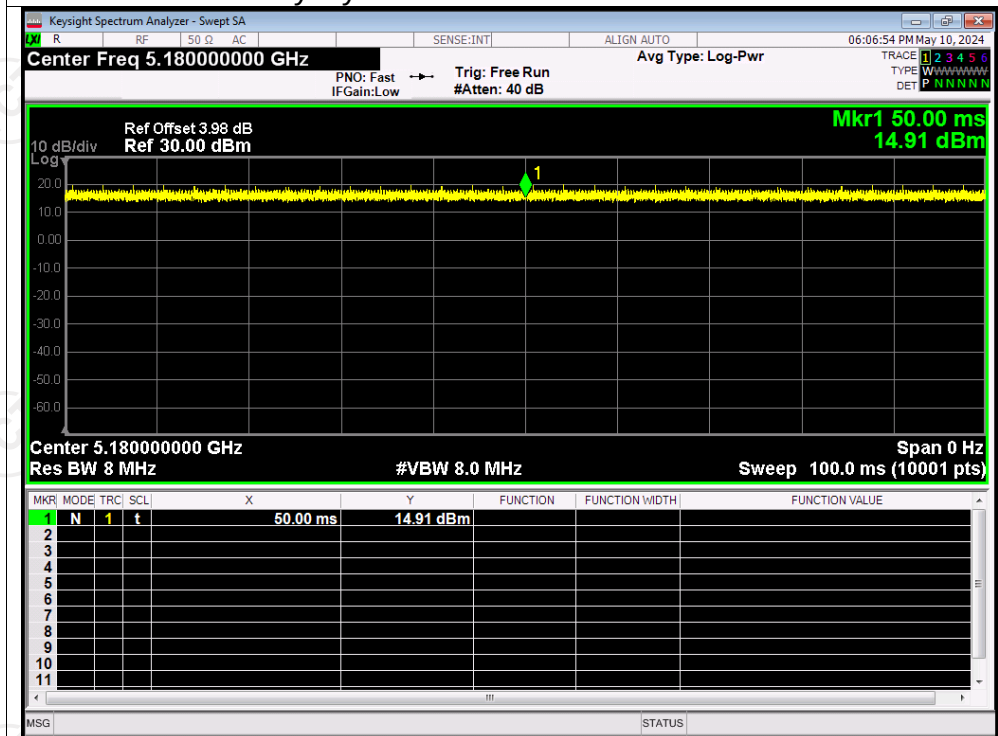
### Duty Cycle NVNT a 5200MHz Ant1



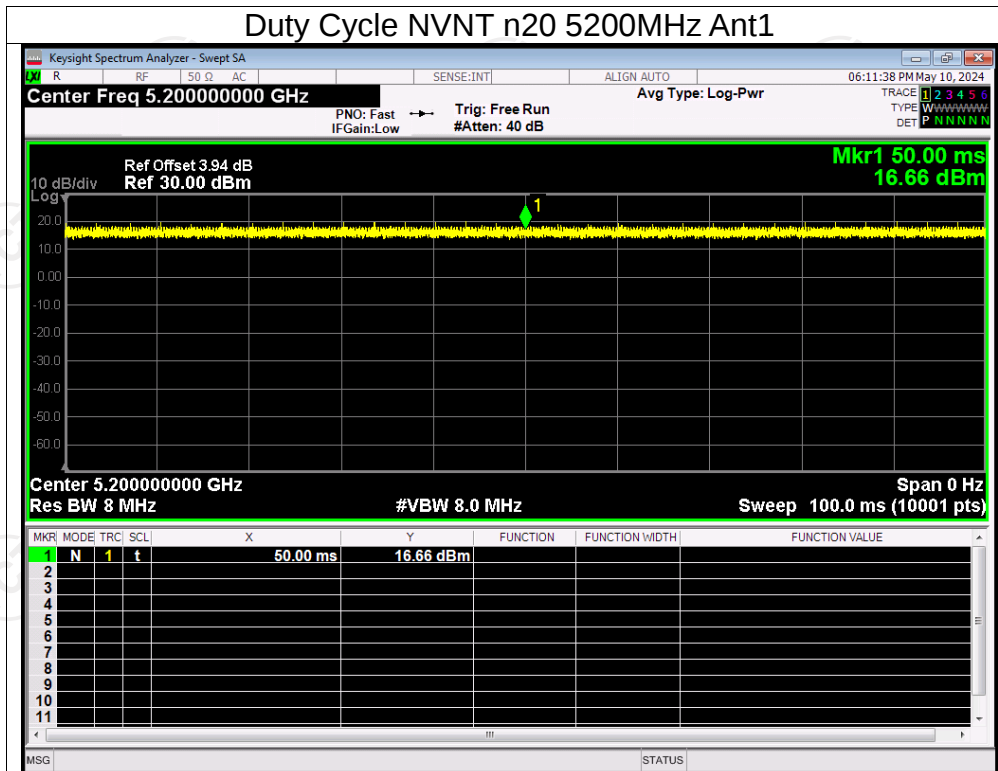
## Duty Cycle NVNT a 5240MHz Ant1



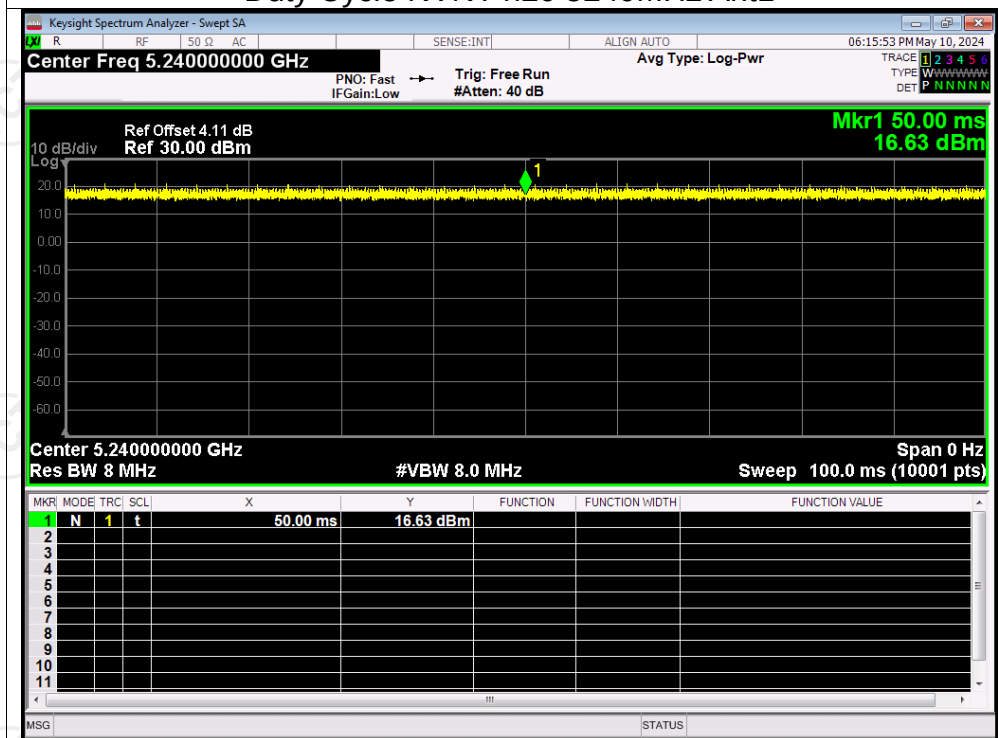
## Duty Cycle NVNT n20 5180MHz Ant1



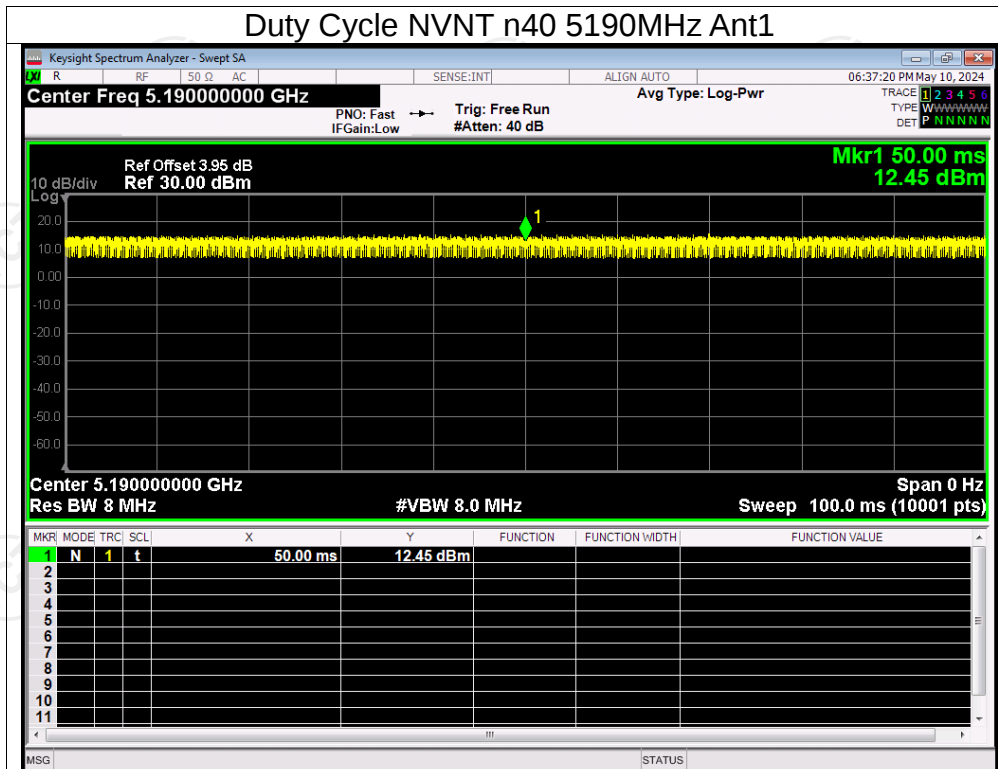
## Duty Cycle NVNT n20 5200MHz Ant1



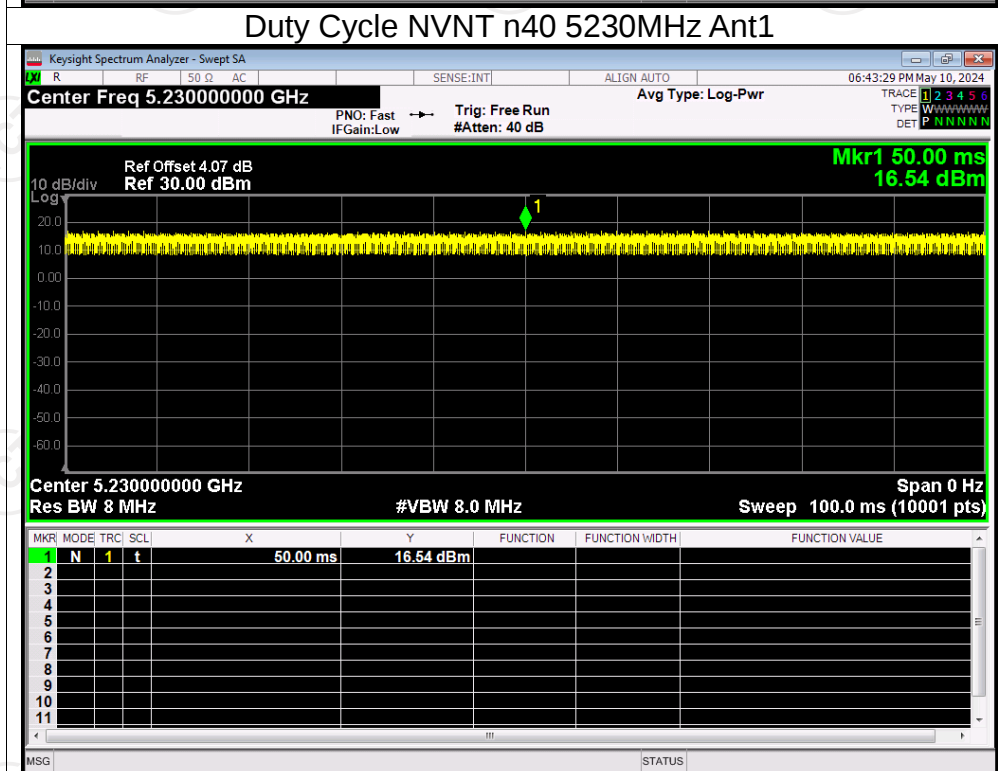
## Duty Cycle NVNT n20 5240MHz Ant1

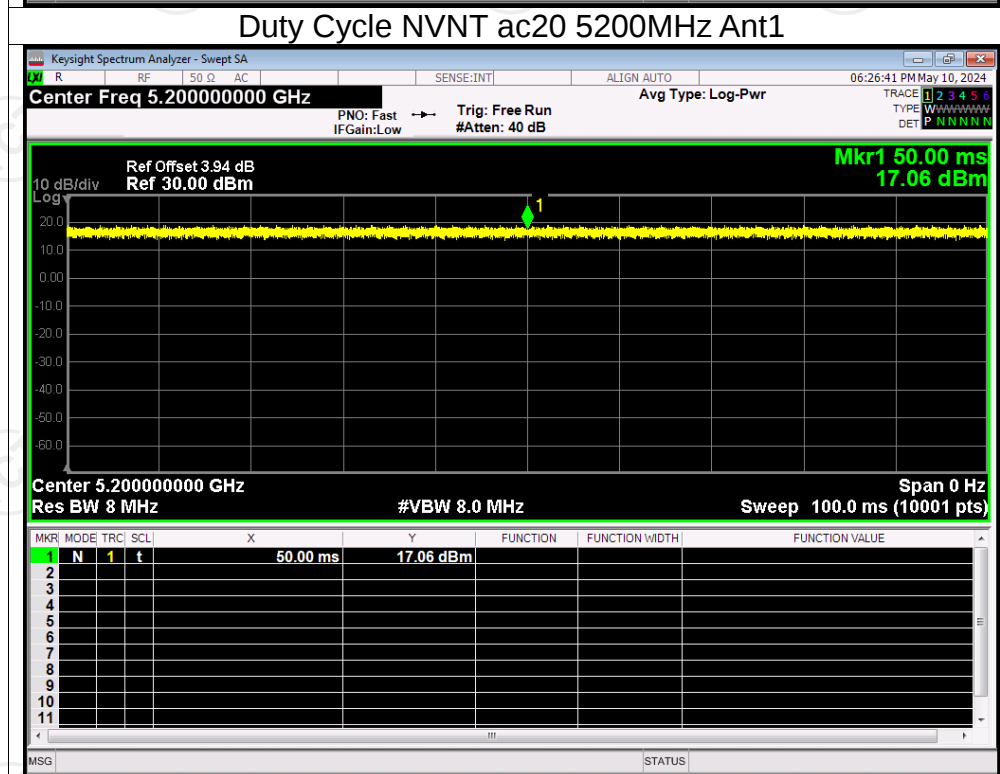
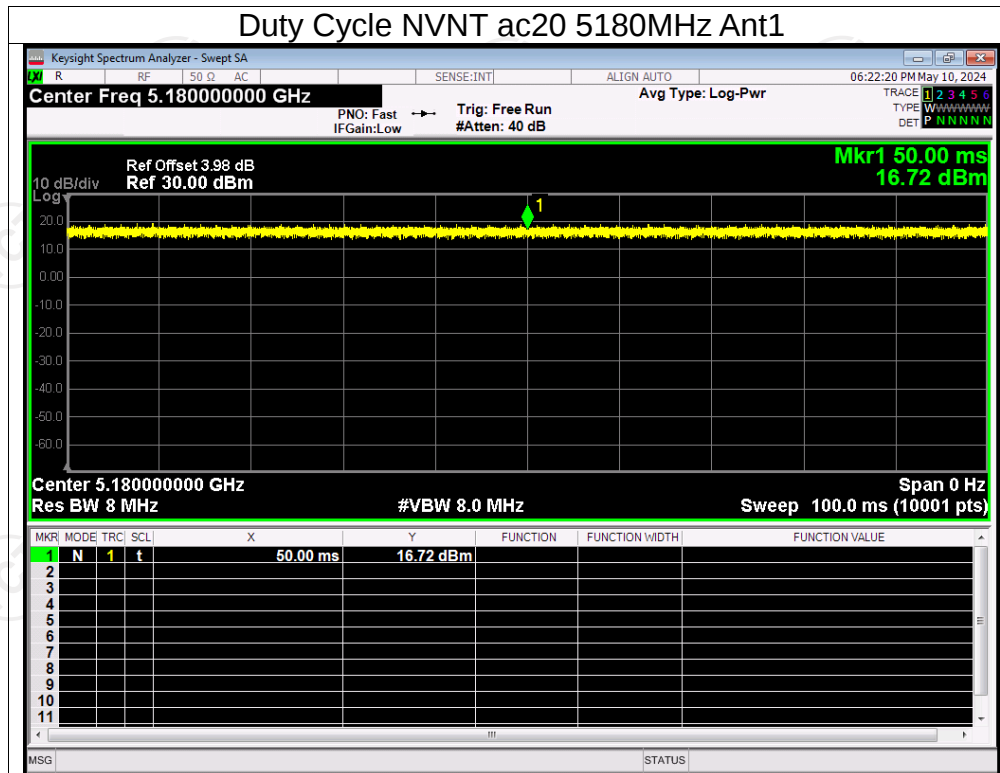


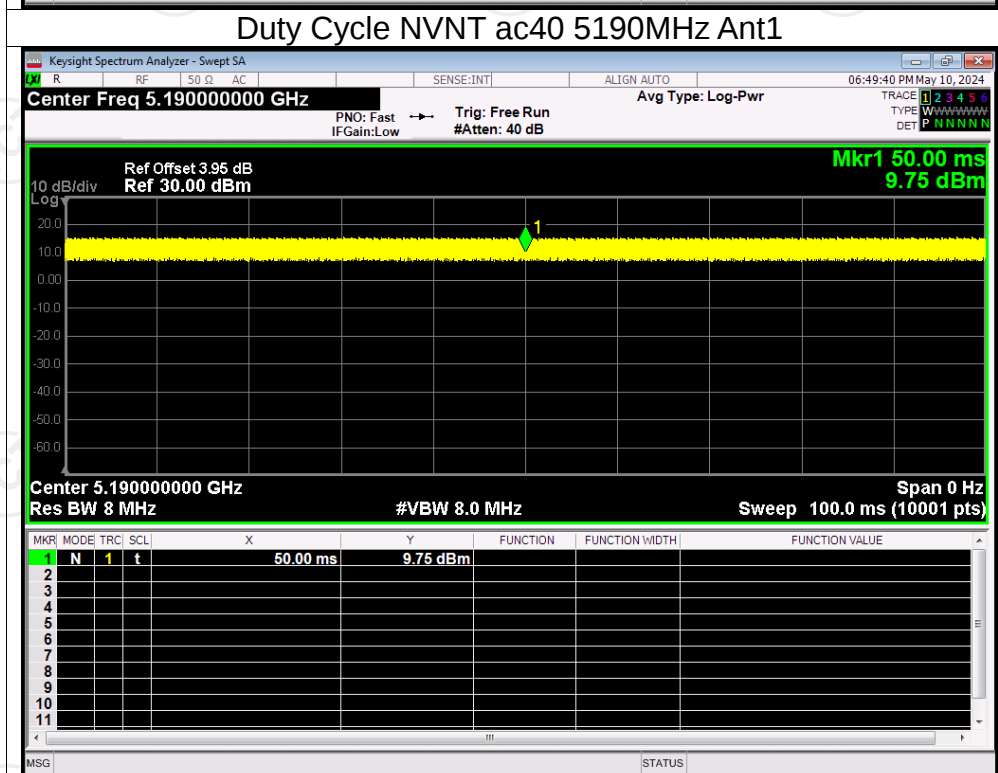
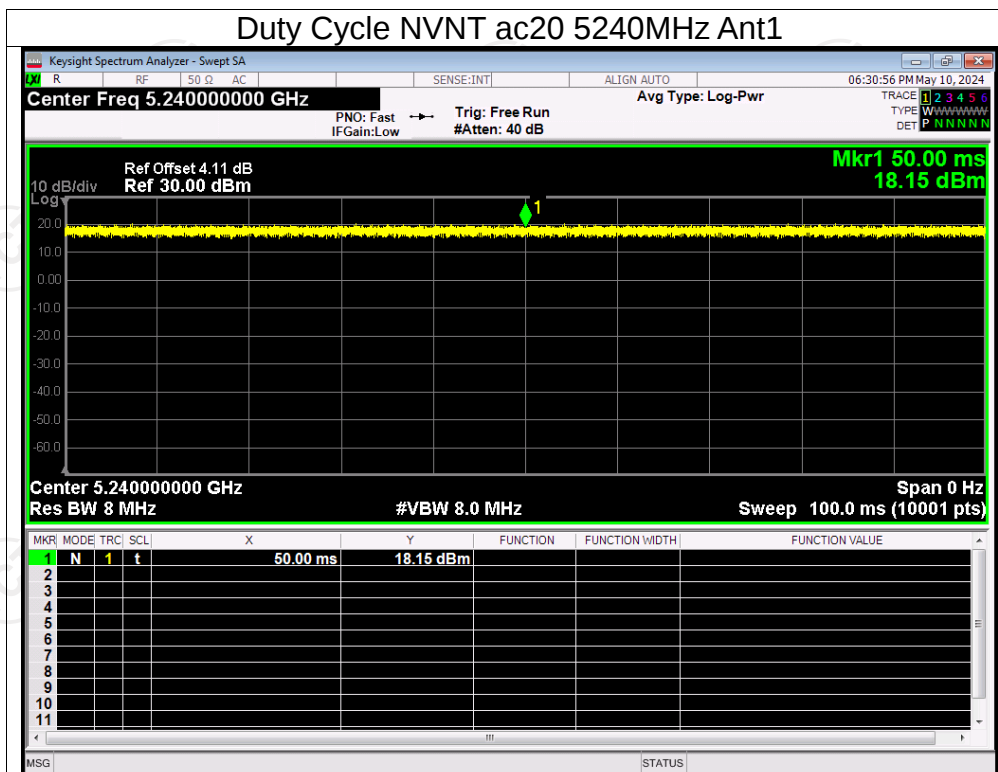
## Duty Cycle NVNT n40 5190MHz Ant1

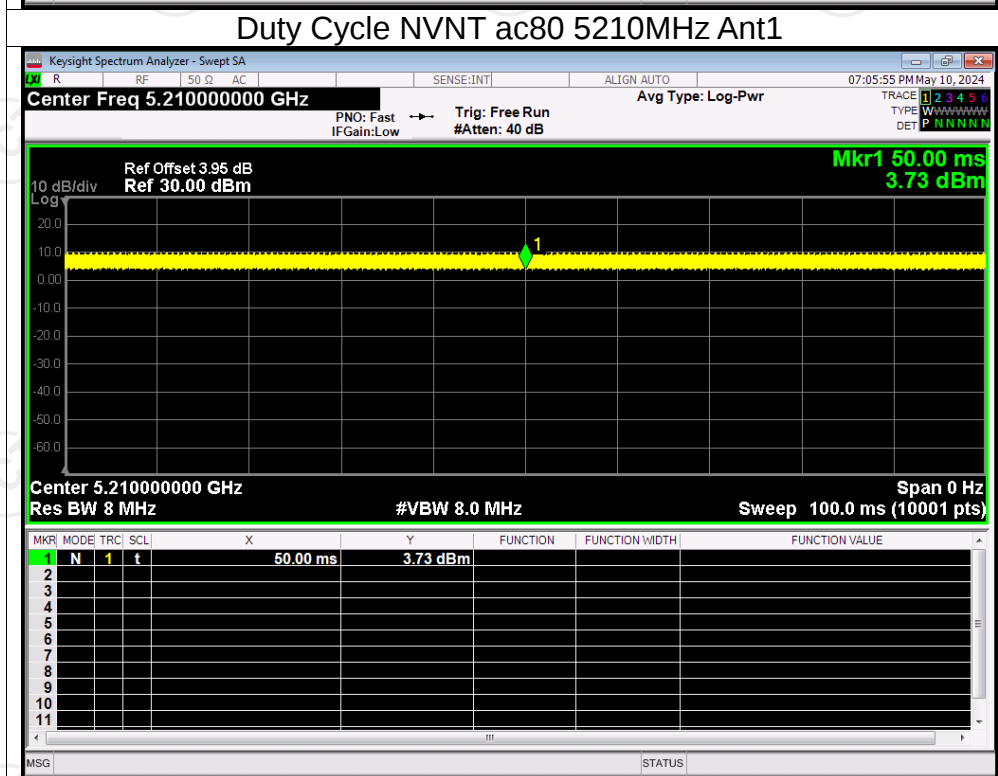
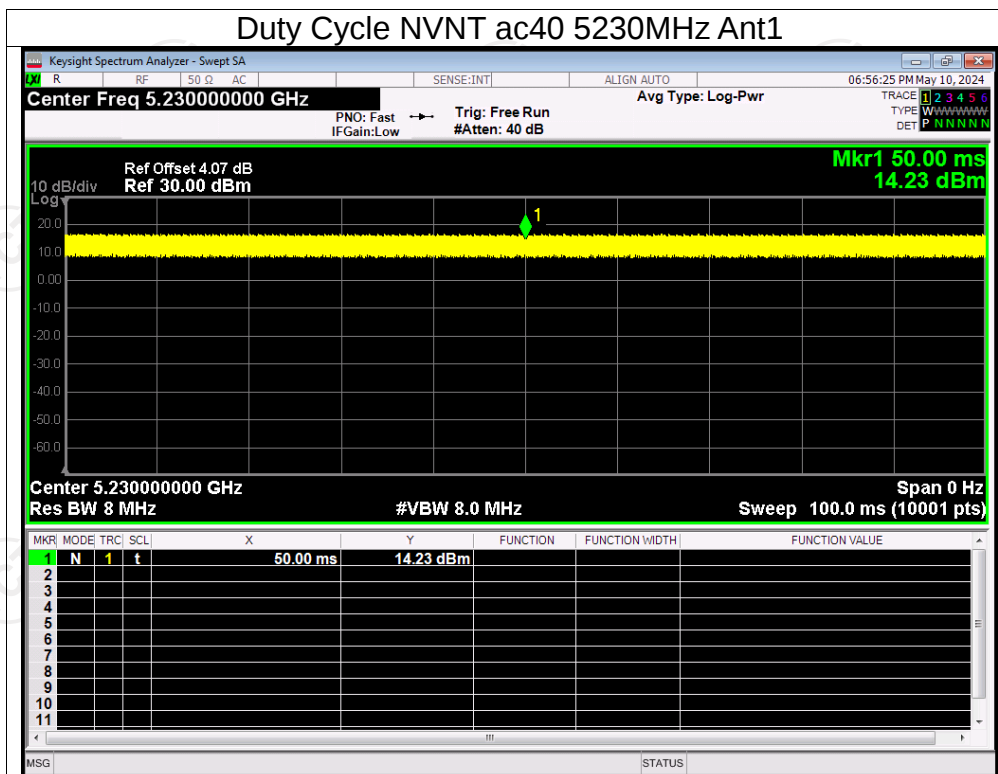


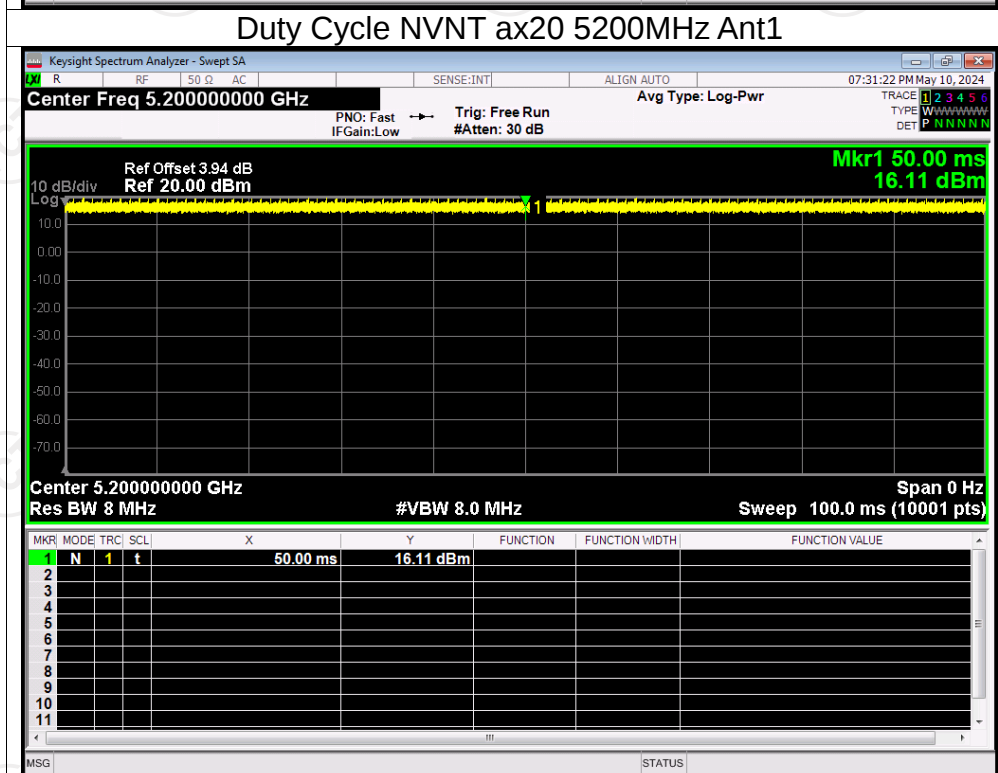
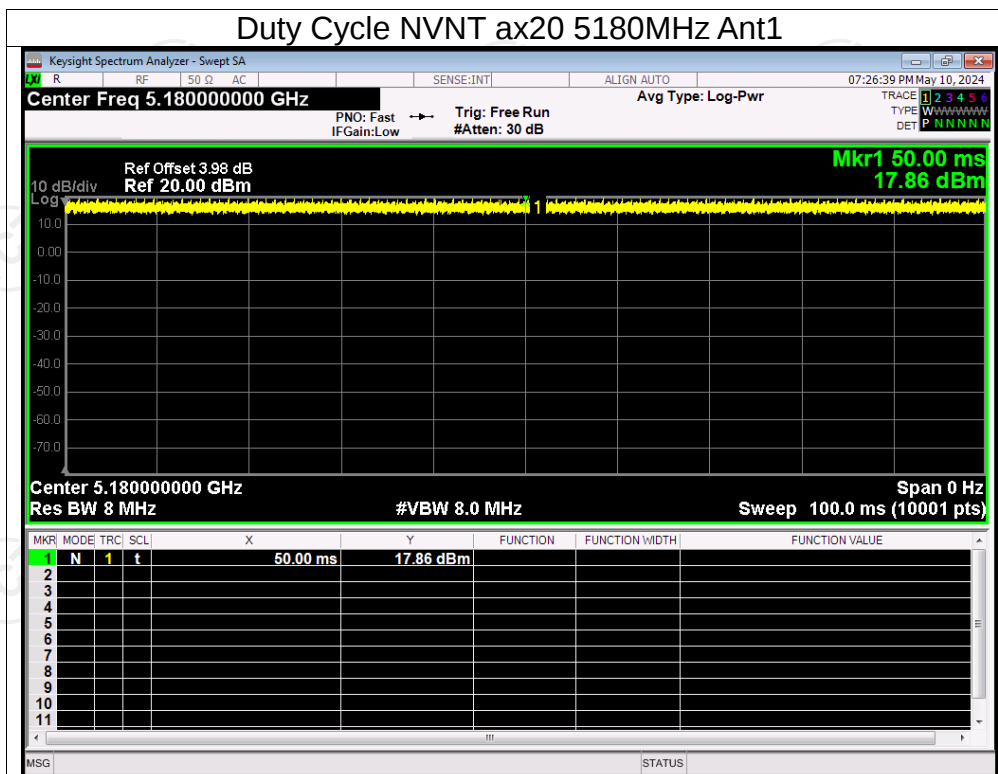
## Duty Cycle NVNT n40 5230MHz Ant1

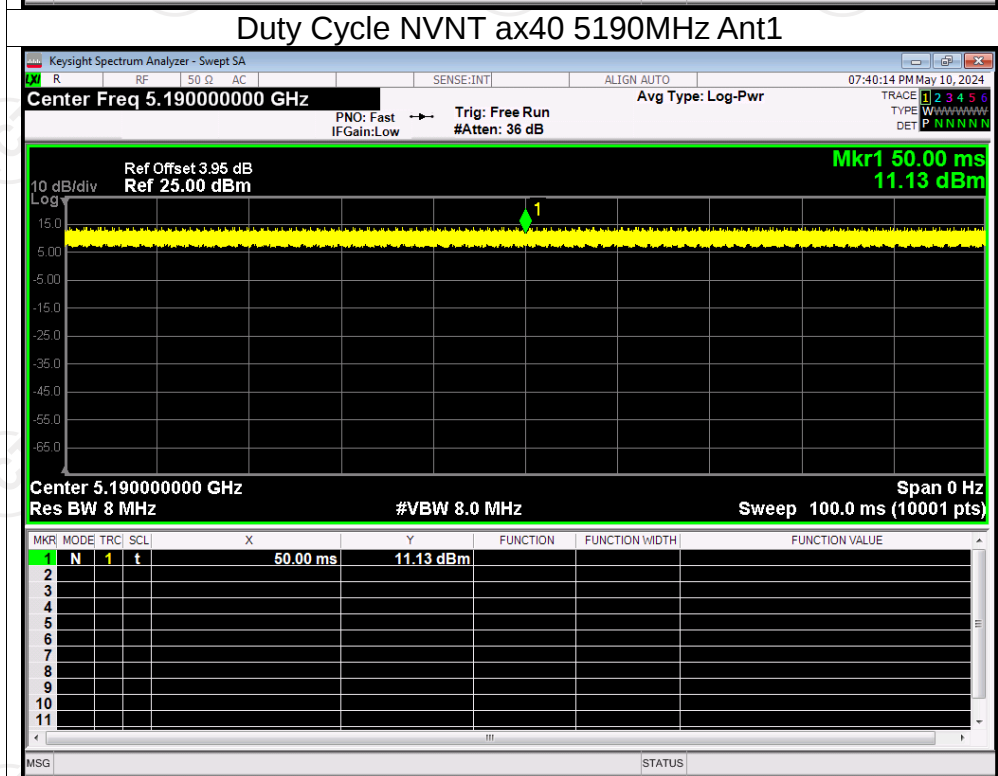
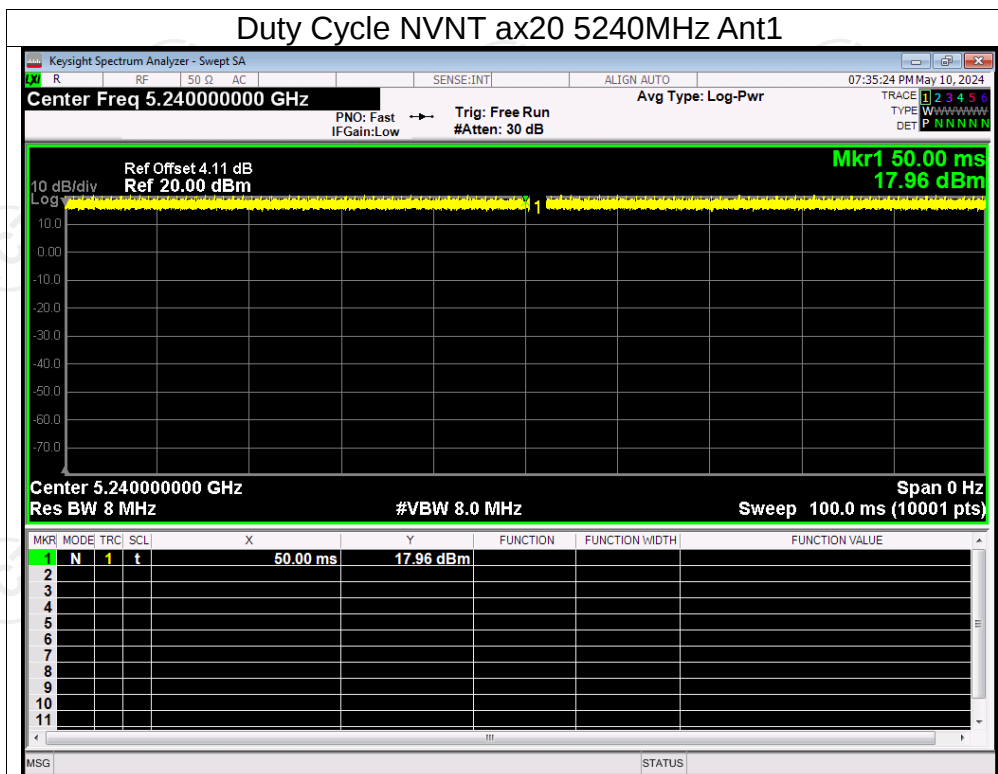


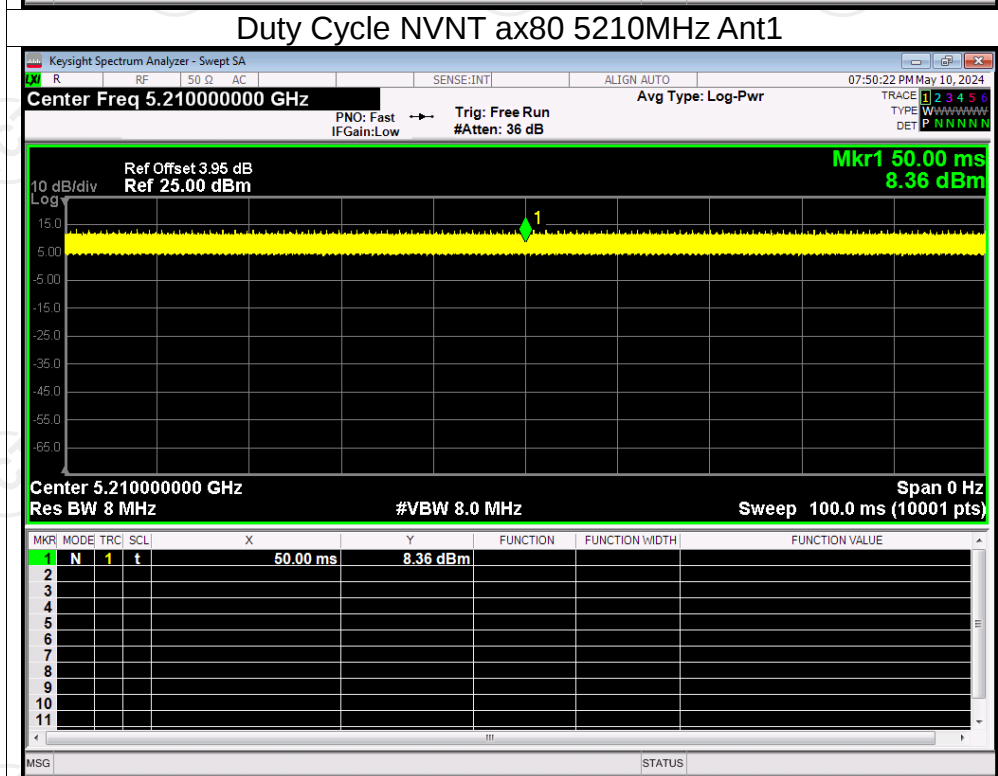
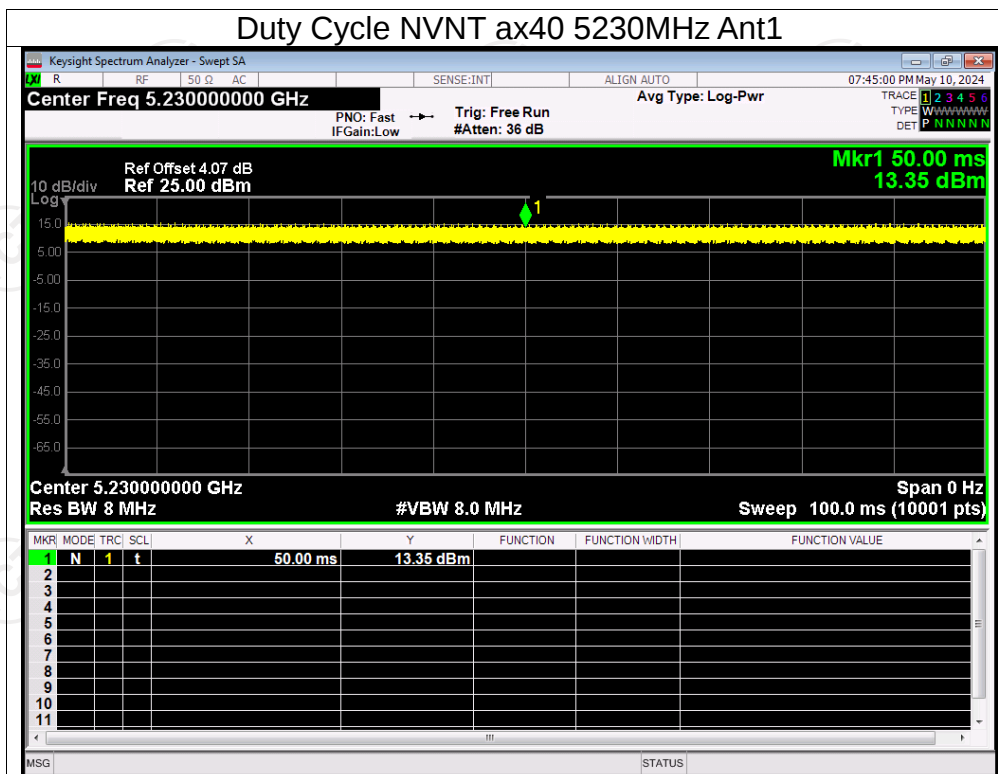






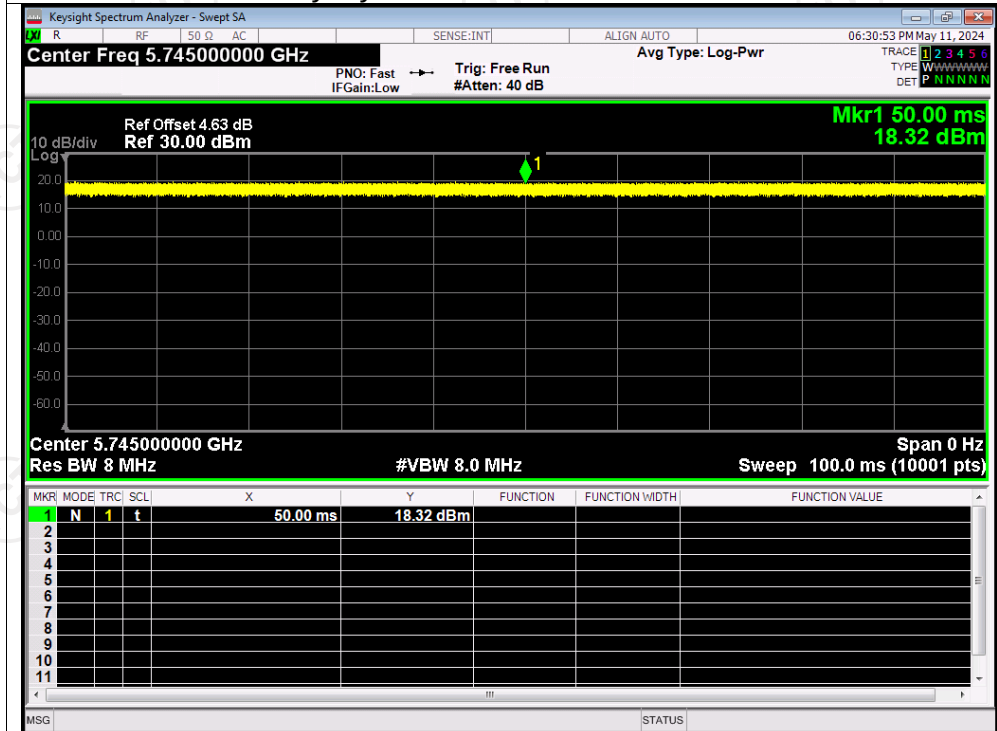




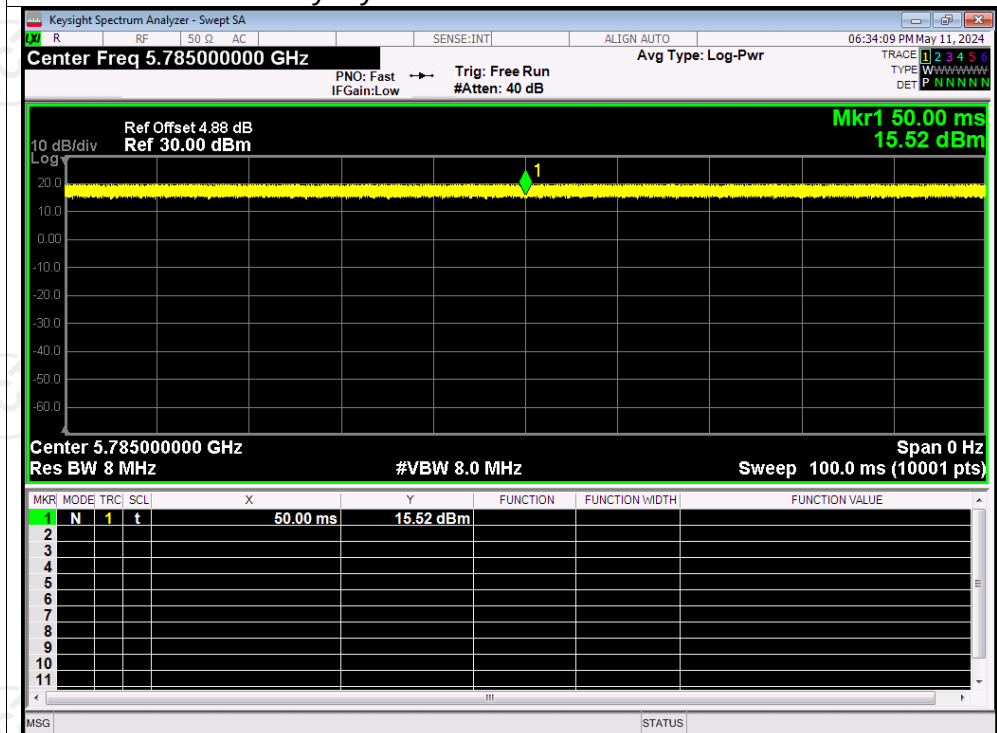


## Test Graphs

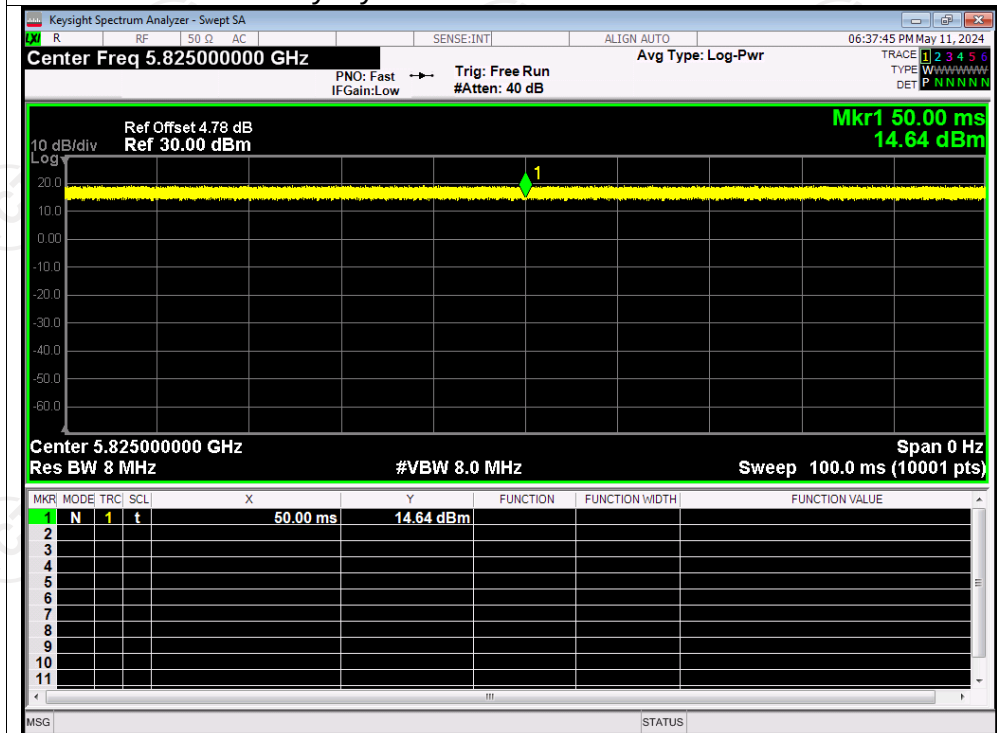
### Duty Cycle NVNT a 5745MHz Ant1



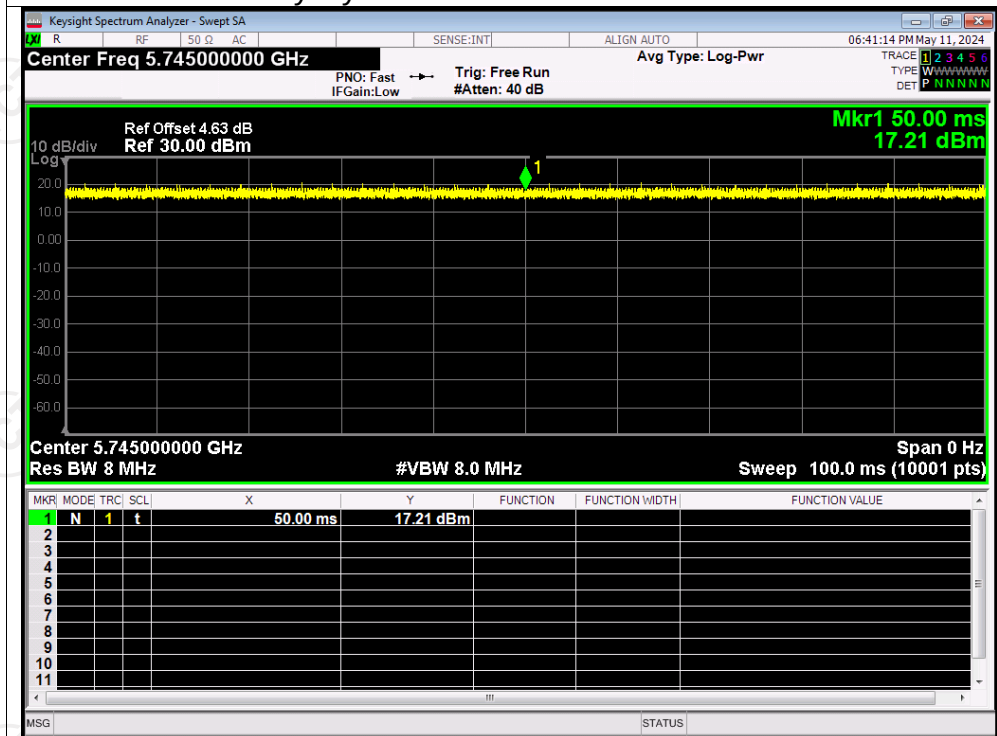
### Duty Cycle NVNT a 5785MHz Ant1



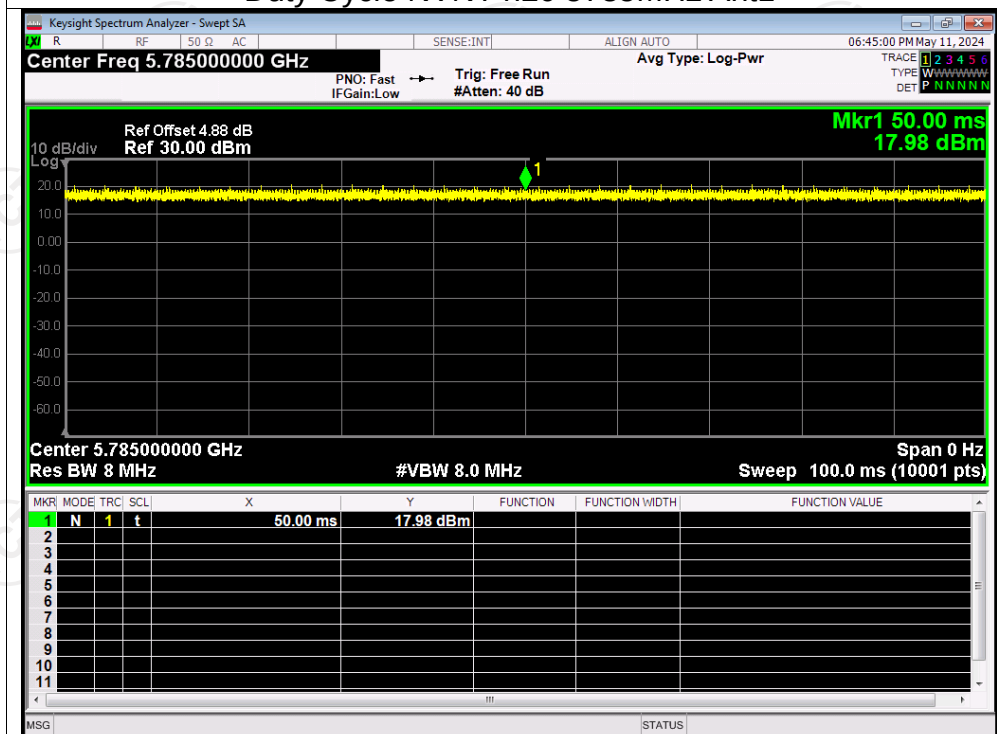
## Duty Cycle NVNT a 5825MHz Ant1



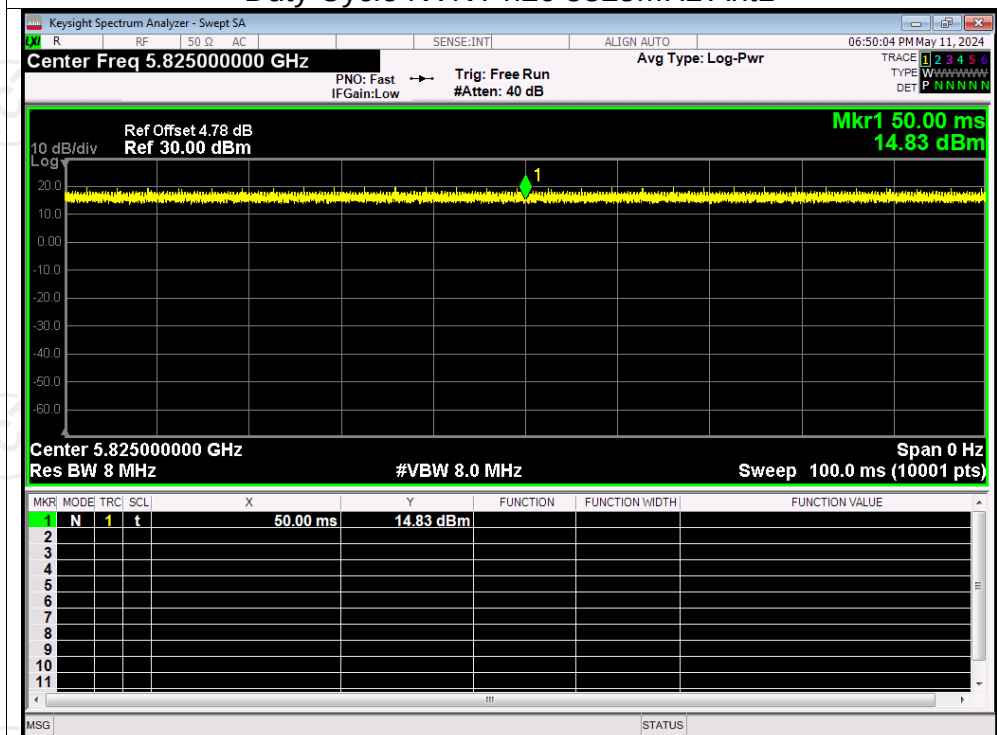
## Duty Cycle NVNT n20 5745MHz Ant1



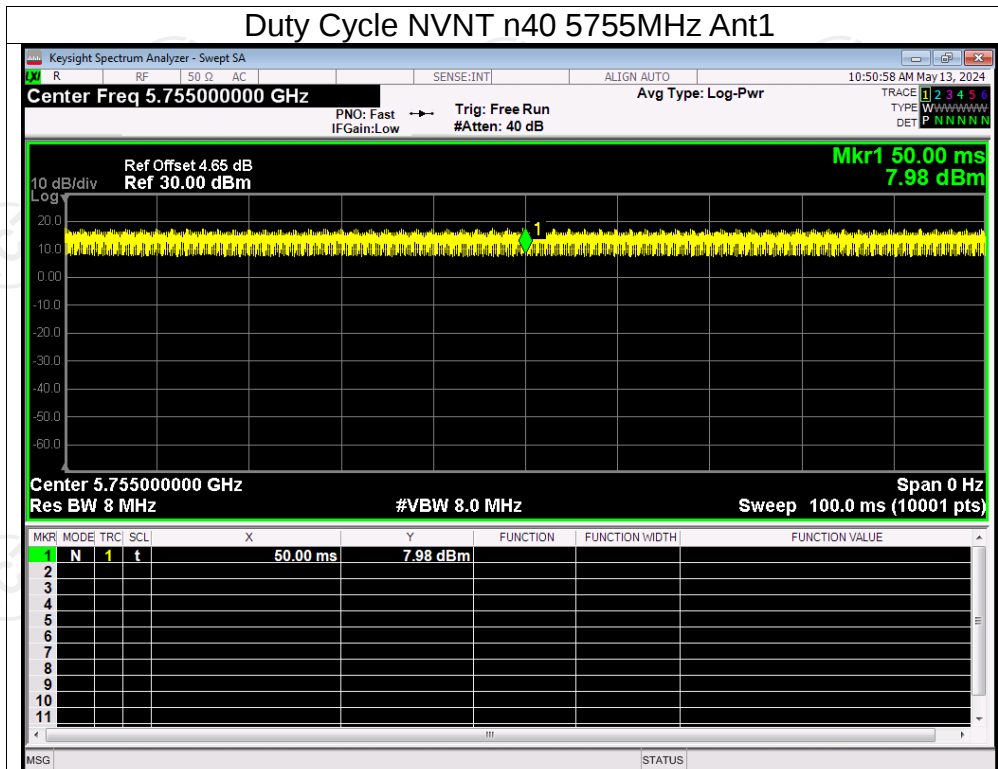
## Duty Cycle NVNT n20 5785MHz Ant1



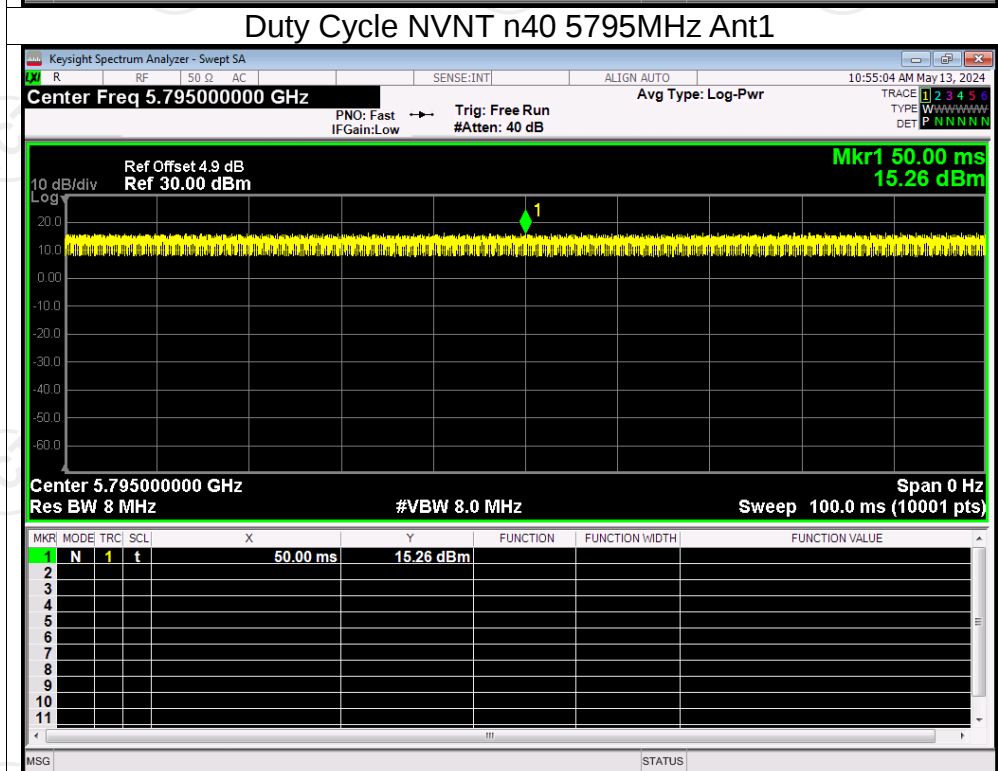
## Duty Cycle NVNT n20 5825MHz Ant1

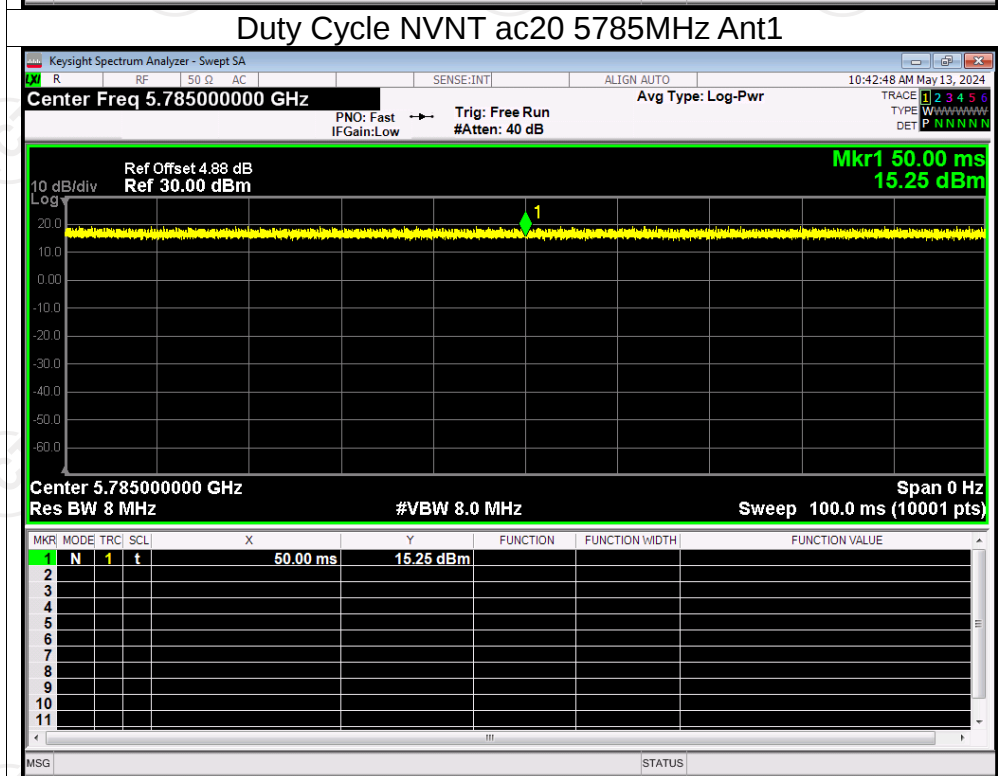
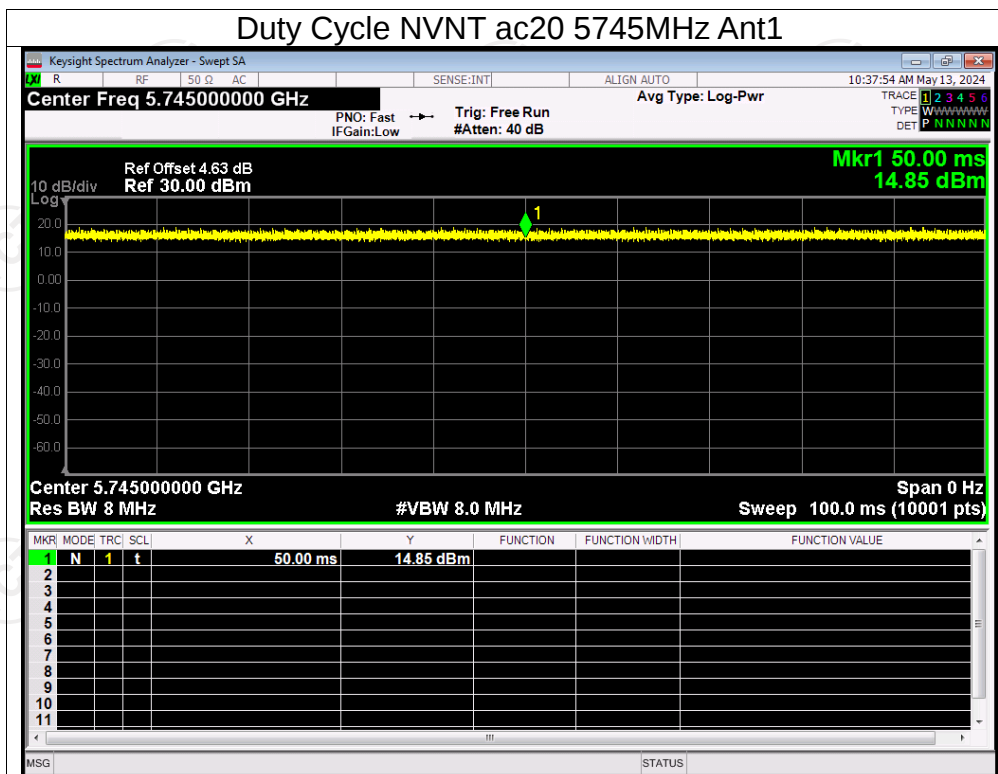


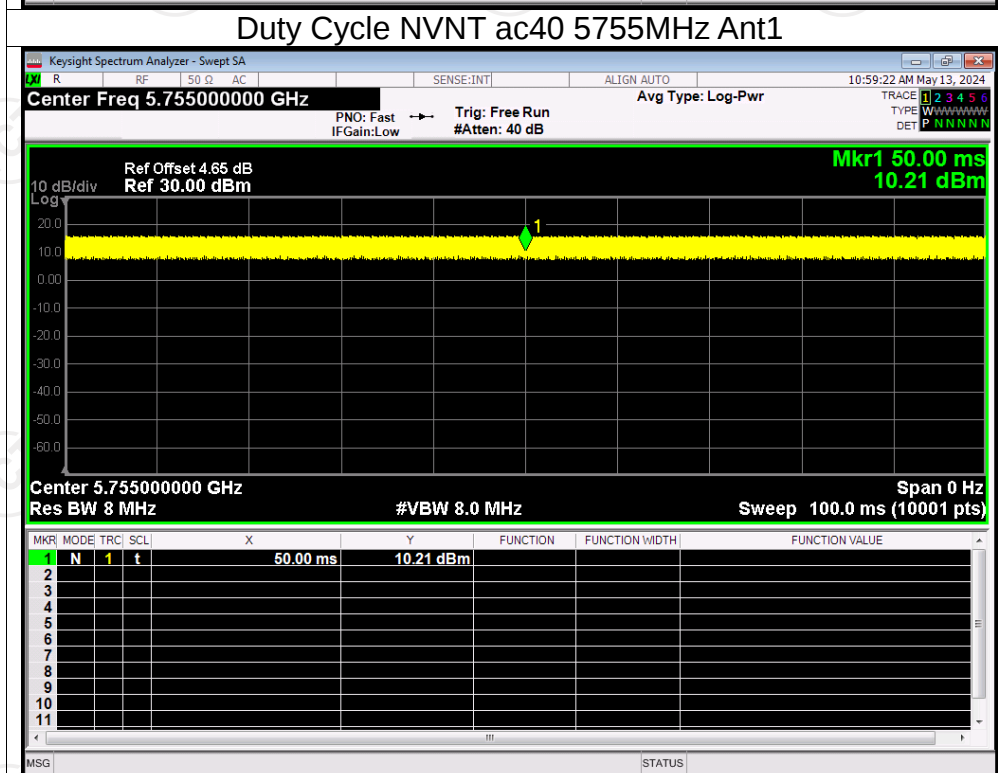
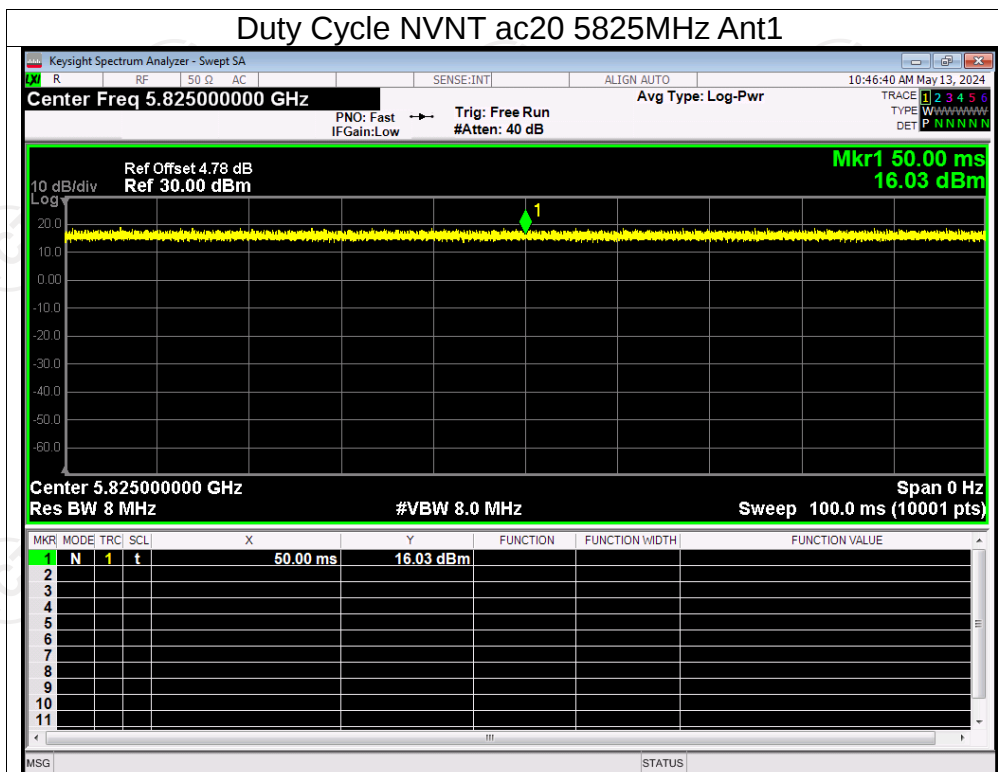
## Duty Cycle NVNT n40 5755MHz Ant1

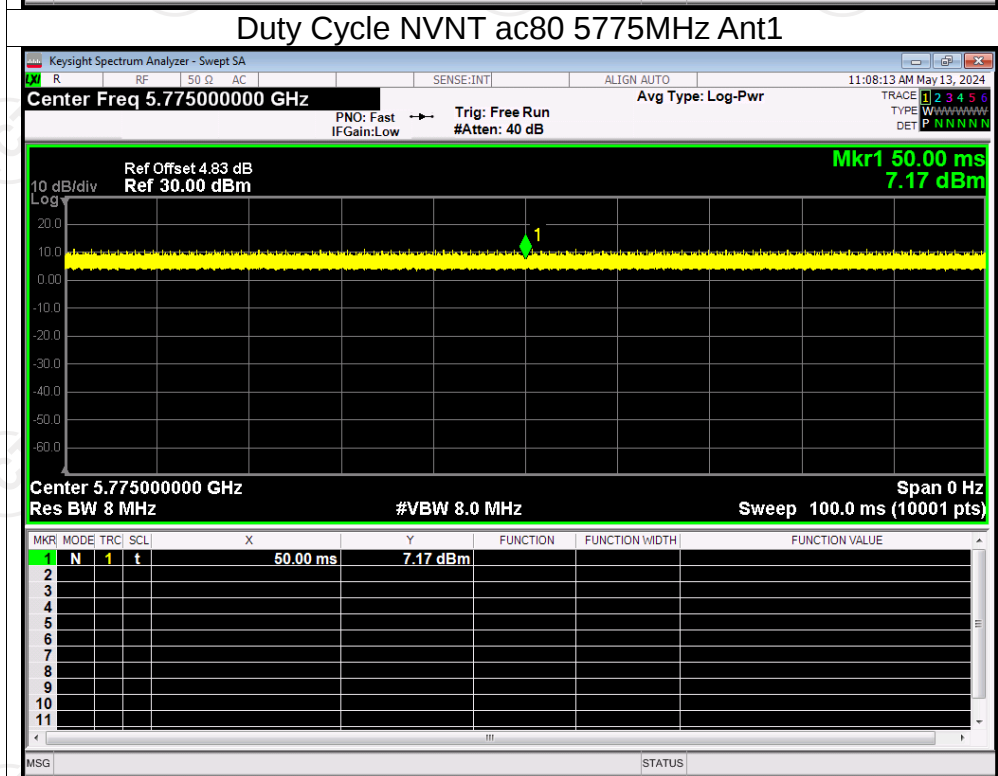
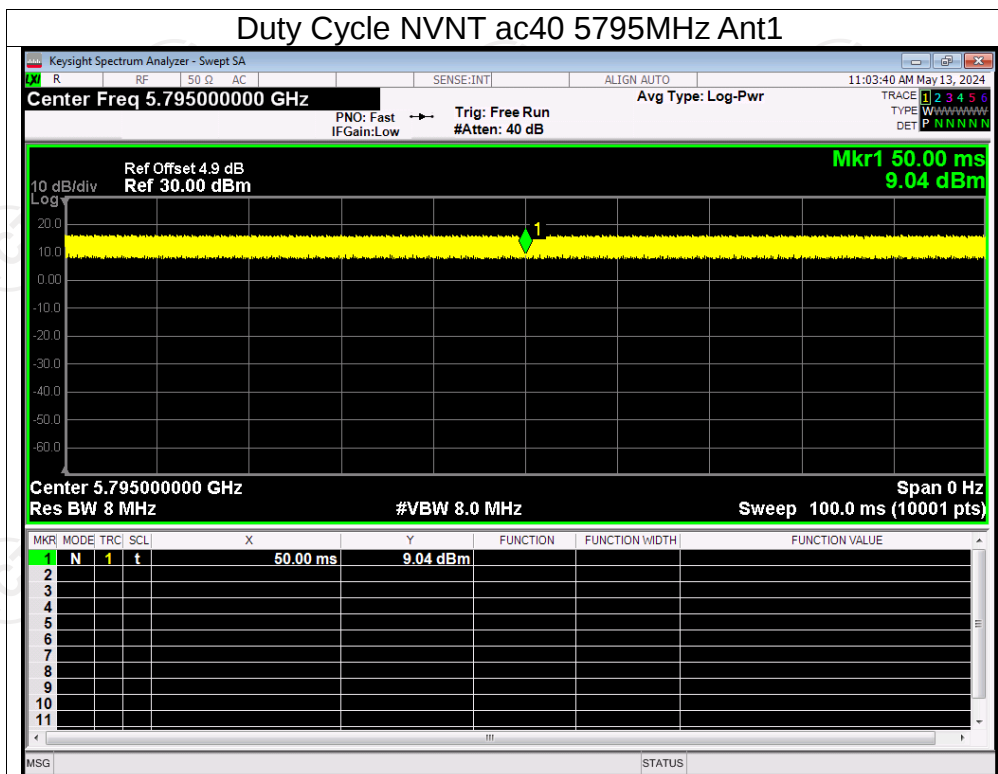


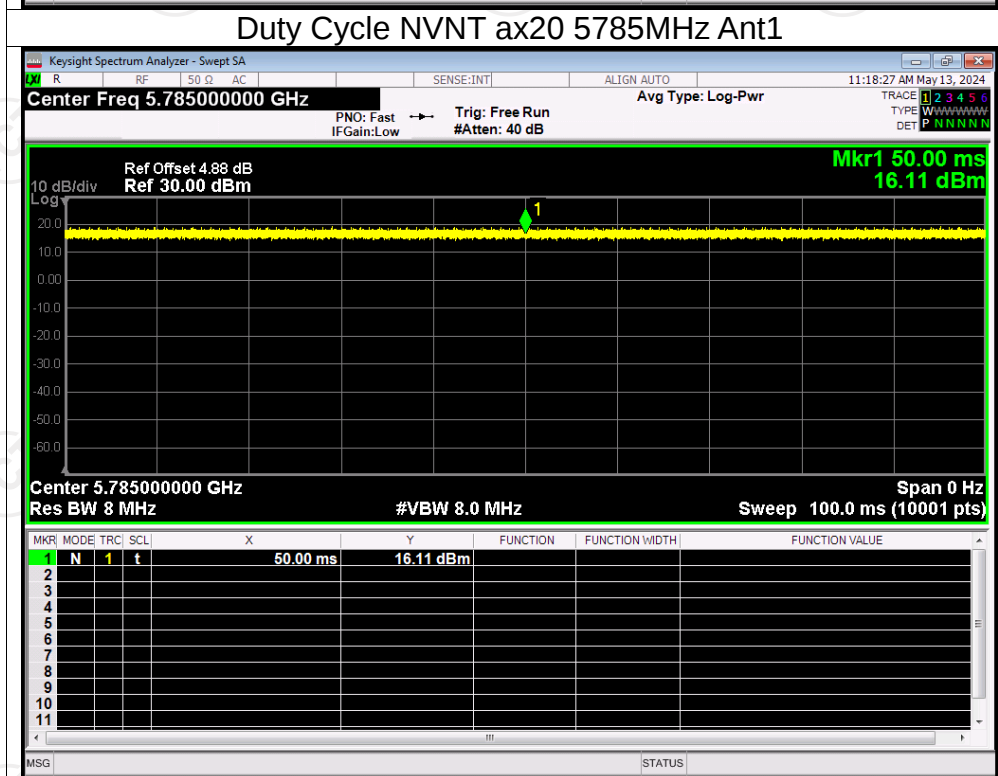
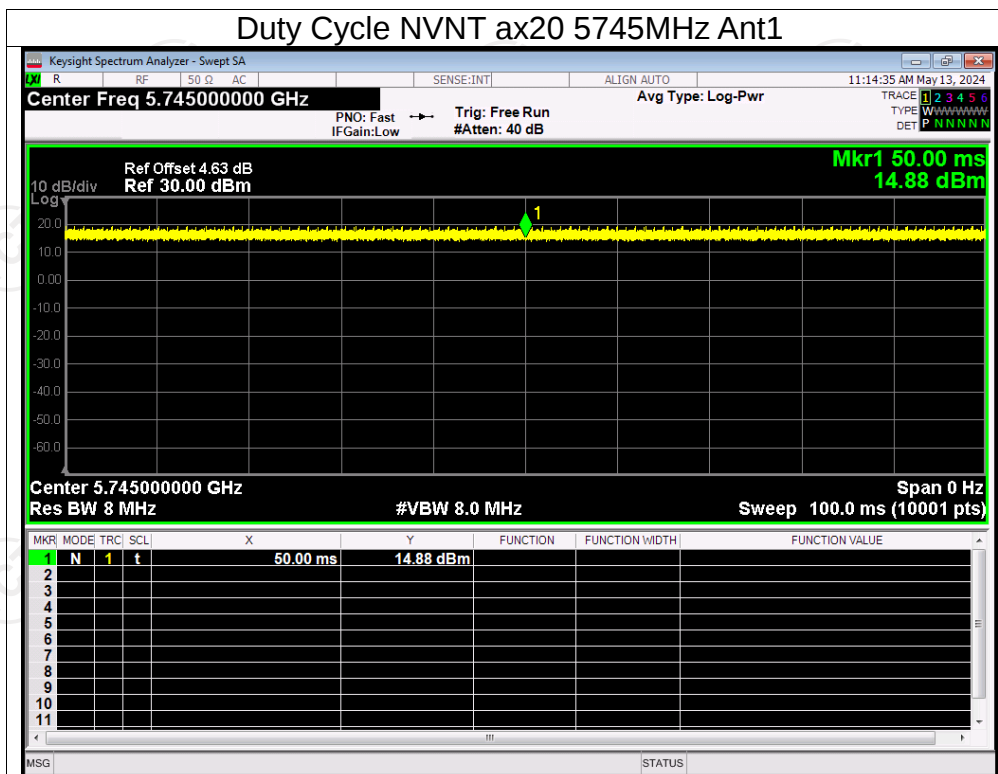
## Duty Cycle NVNT n40 5795MHz Ant1

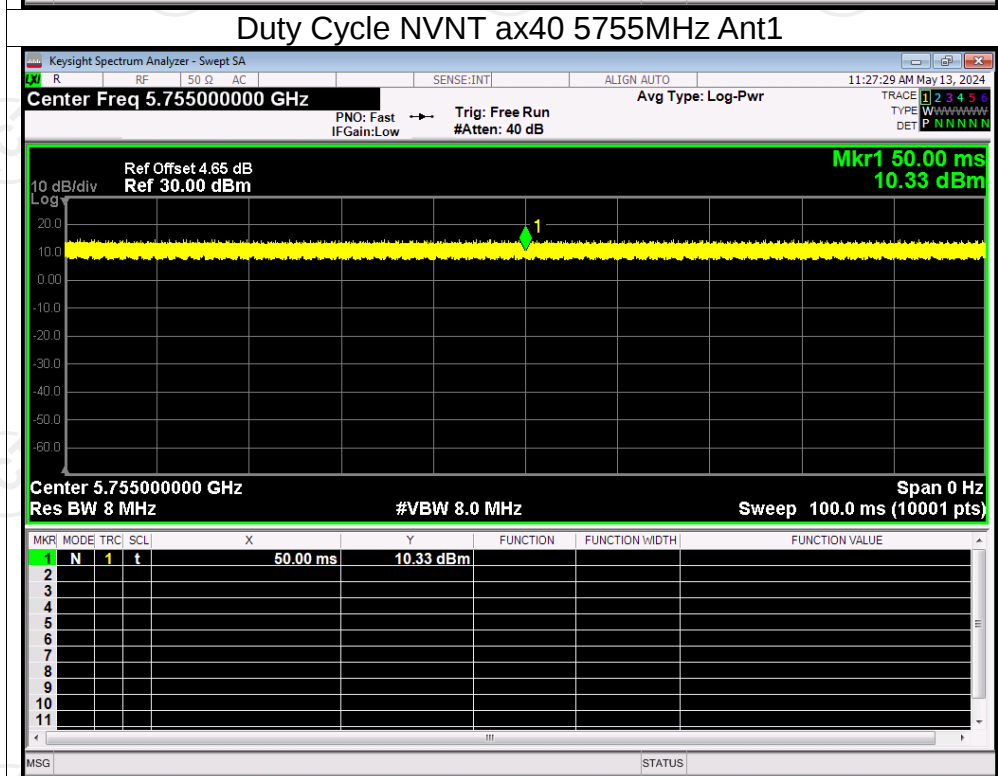
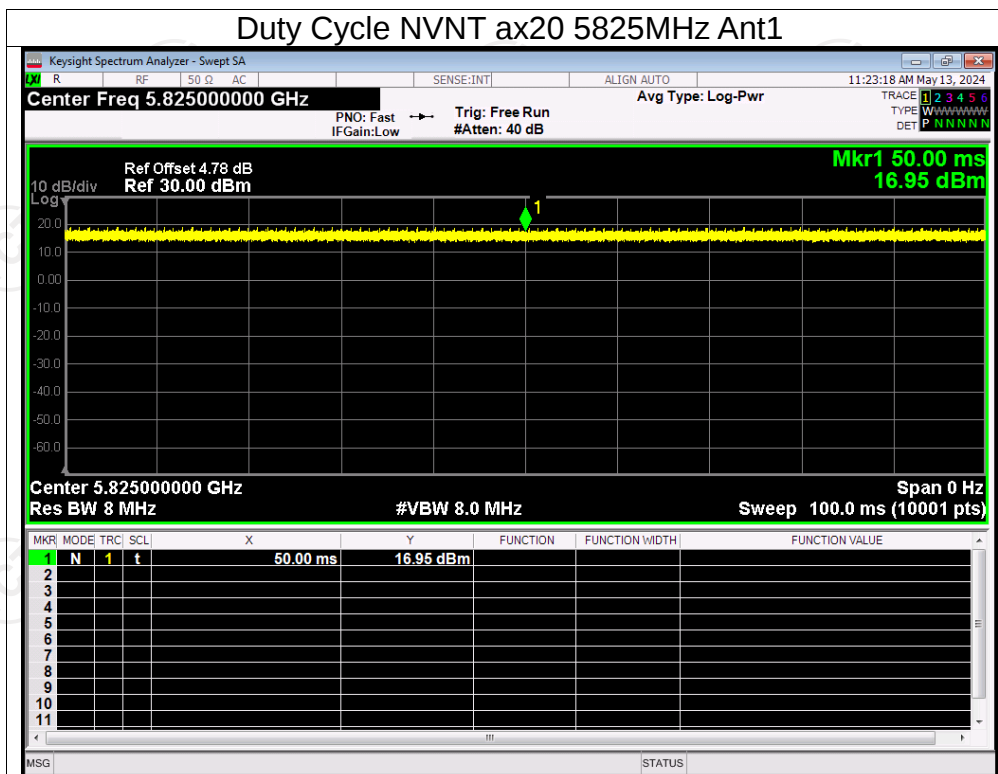


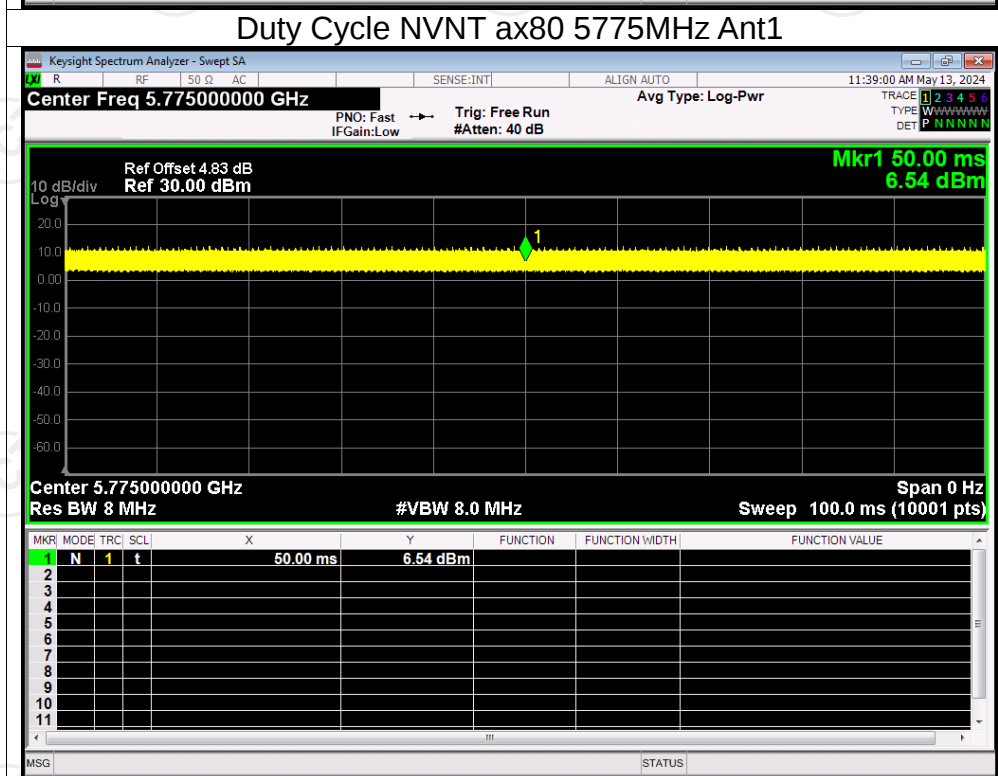
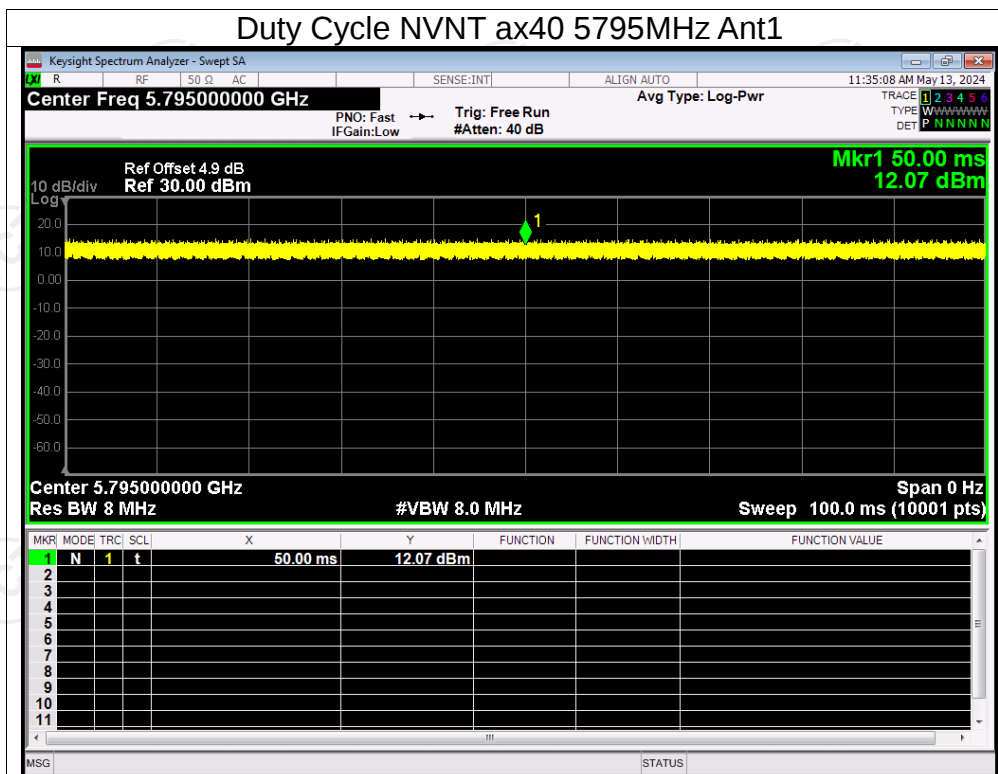










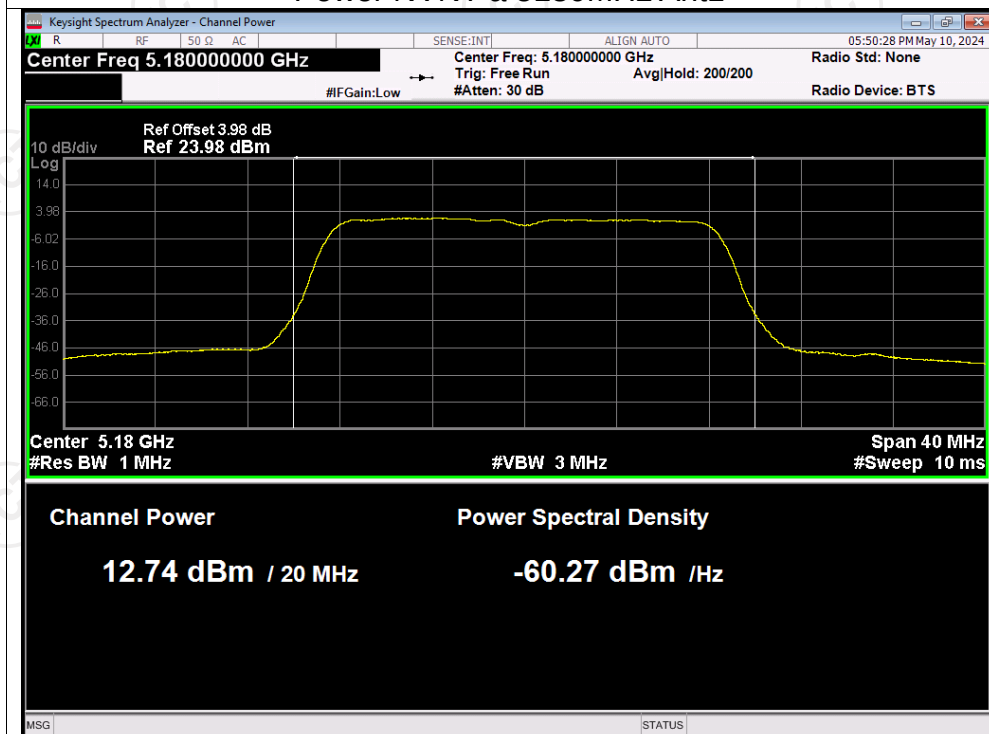


### Maximum Conducted Output Power

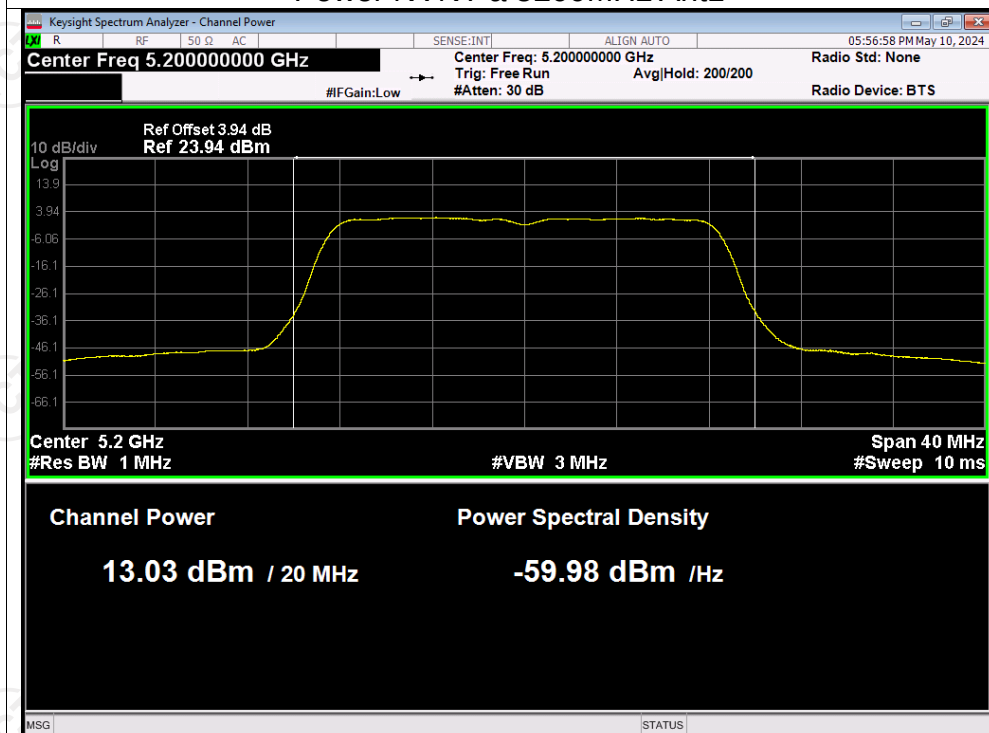
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 12.74                 | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 13.03                 | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 14.03                 | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 13.31                 | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 13.35                 | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 14.37                 | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 13.28                 | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 14.27                 | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 13.22                 | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 13.27                 | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 14.33                 | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 13.12                 | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 14.10                 | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 13.45                 | 24          | Pass    |
| NVNT      | ax20 | 5180            | Ant1    | 13.13                 | 24          | Pass    |
| NVNT      | ax20 | 5200            | Ant1    | 13.21                 | 24          | Pass    |
| NVNT      | ax20 | 5240            | Ant1    | 14.20                 | 24          | Pass    |
| NVNT      | ax40 | 5190            | Ant1    | 13.02                 | 24          | Pass    |
| NVNT      | ax40 | 5230            | Ant1    | 14.02                 | 24          | Pass    |
| NVNT      | ax80 | 5210            | Ant1    | 13.15                 | 24          | Pass    |
| NVNT      | a    | 5745            | Ant1    | 13.41                 | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 13.81                 | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 13.01                 | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 13.89                 | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 14.23                 | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 13.42                 | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 13.39                 | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 13.83                 | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 12.90                 | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 13.51                 | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 12.89                 | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 13.31                 | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 13.75                 | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 13.48                 | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 13.30                 | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 13.84                 | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 13.11                 | 27          | Pass    |
| NVNT      | ax40 | 5755            | Ant1    | 13.37                 | 30          | Pass    |
| NVNT      | ax40 | 5795            | Ant1    | 13.77                 | 30          | Pass    |
| NVNT      | ax80 | 5775            | Ant1    | 13.19                 | 30          | Pass    |

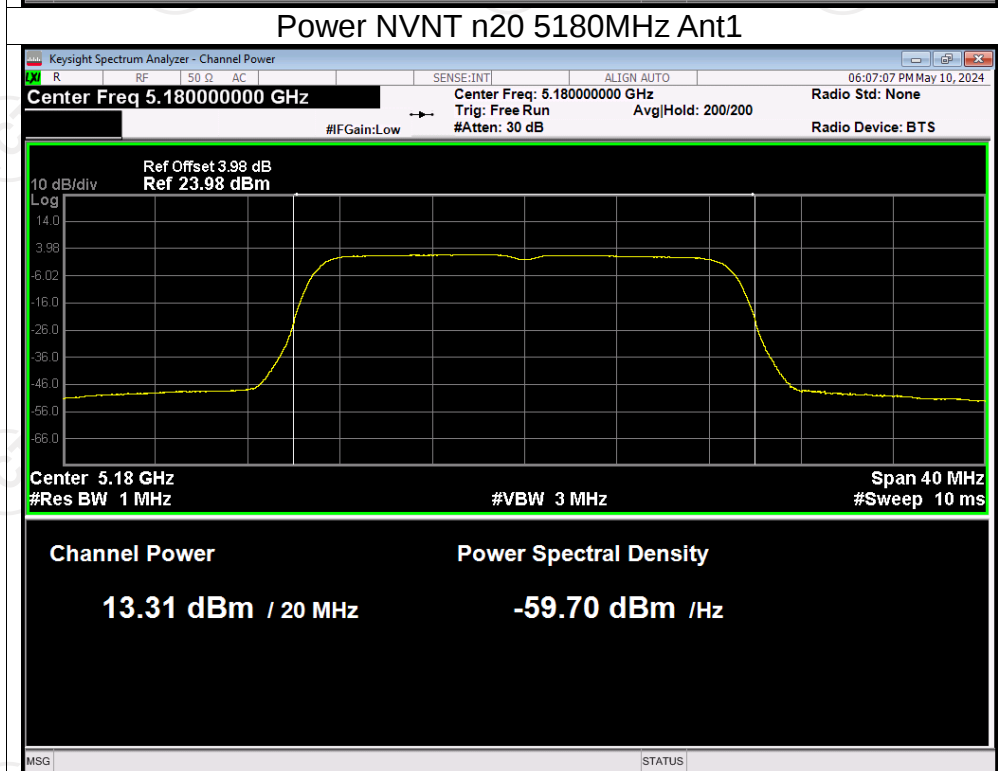
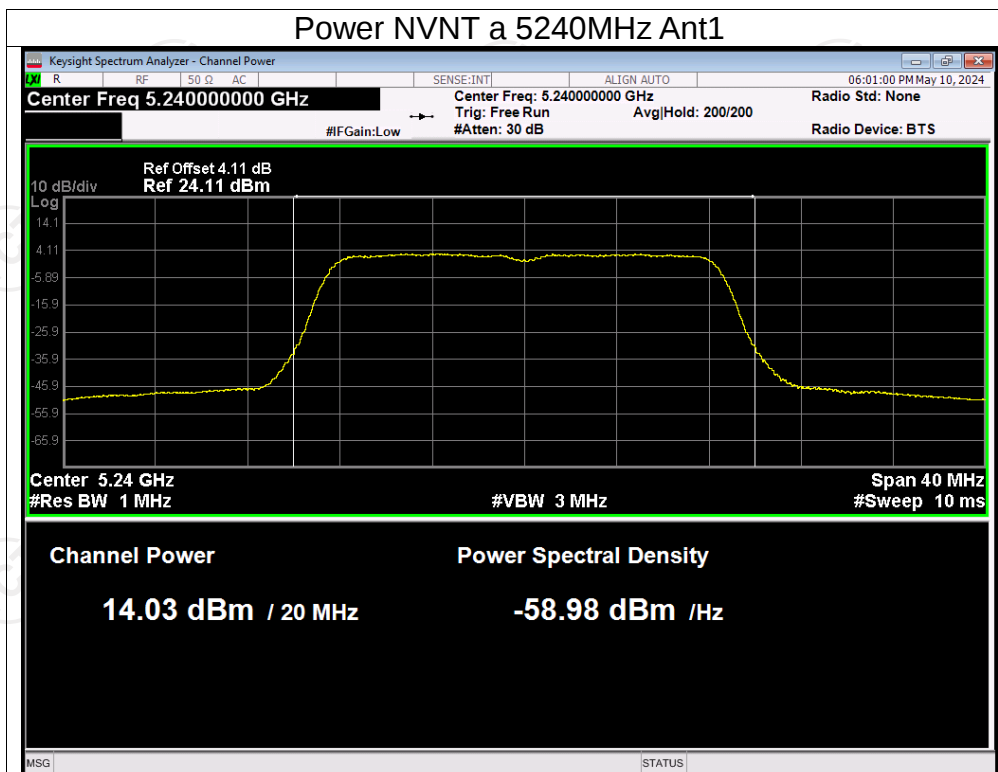
## Test Graphs

### Power NVNT a 5180MHz Ant1

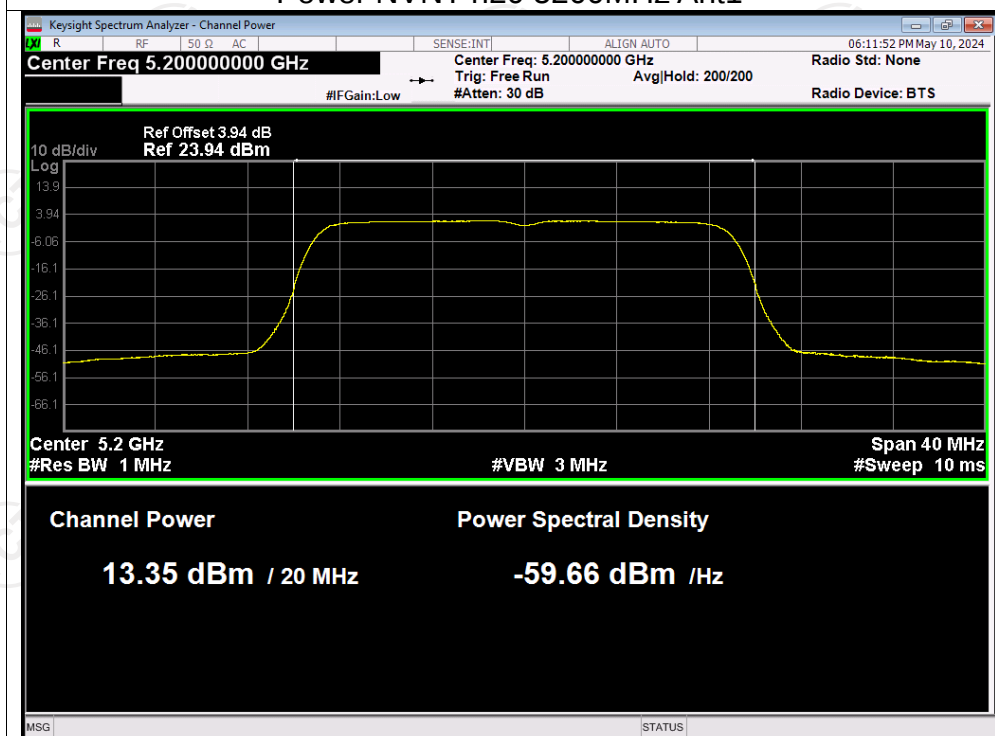


### Power NVNT a 5200MHz Ant1

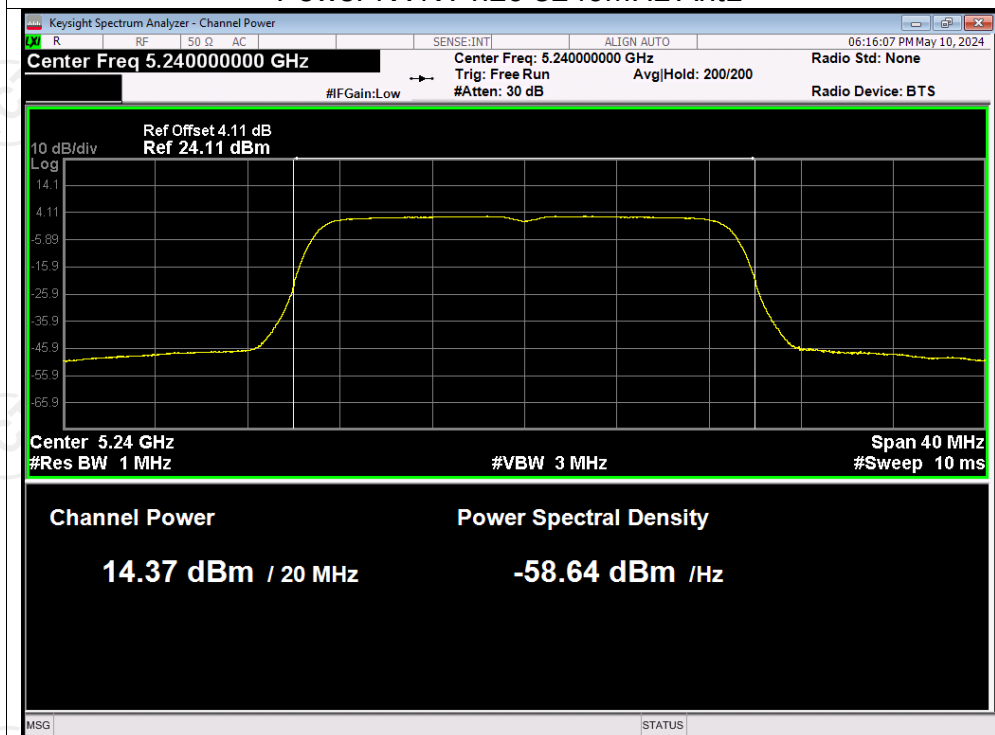




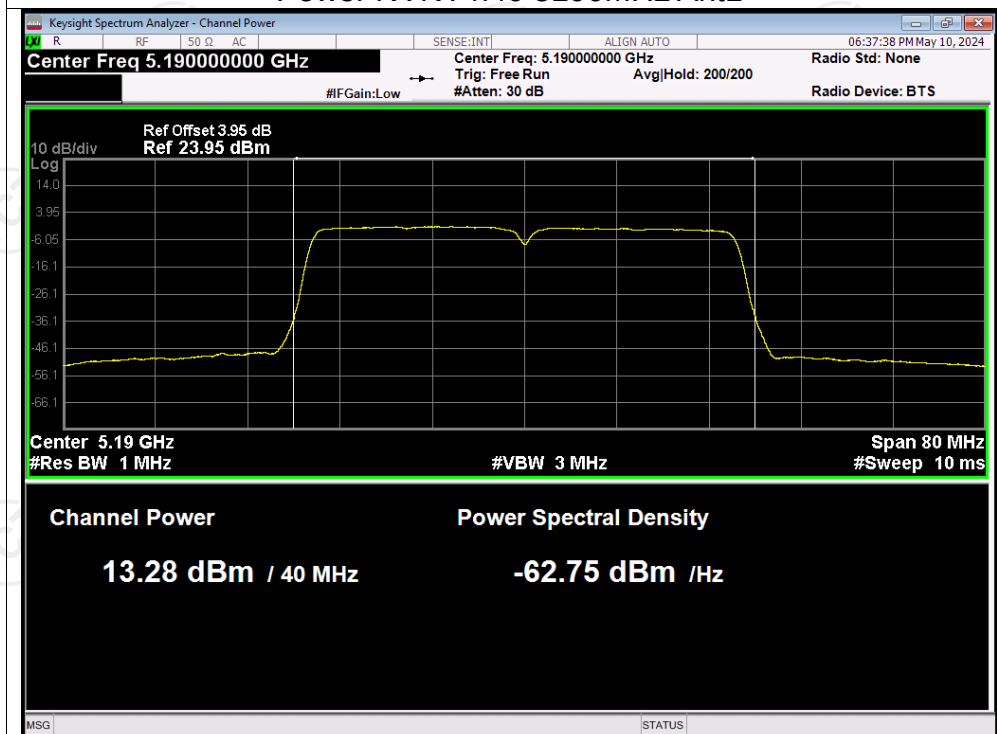
## Power NVNT n20 5200MHz Ant1



## Power NVNT n20 5240MHz Ant1



## Power NVNT n40 5190MHz Ant1



## Power NVNT n40 5230MHz Ant1

