

# TEST REPORT

Report No.: BCTC2609775317-4E

Applicant: Shenzhen Viofo Technology Co.,Ltd

Product Name: Car Dash Camera

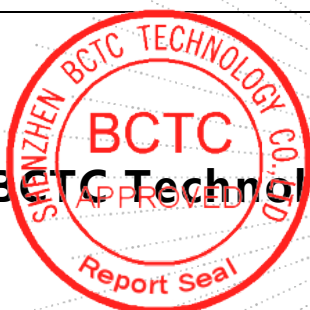
Test Model: T330

Tested Date: 2026-09-09 to 2026-09-21

Issued Date: 2026-09-30



**Shenzhen BCTC Technology Co., Ltd.**



## FCC ID:2AMBW-T330

Product Name: Car Dash Camera

Trademark: VIOFO

Model/Type Reference: T330,T330 2CH,T330C 2CH,T330 3CH,T330CC 3CH,T330T 2CH,T330T 3CH,  
T330TW,T330TT 3CH,T330TC 3CH,T330W 2CH,T330W 3CH,T330WW 3CH,  
T340,T340 3CH,T340W 3CH,T340WW 4CH,T340TC 3CH,T340T 4CH,T340TW  
4CH,T330 Pro,T340 Pro

Prepared For: Shenzhen Viofo Technology Co.,Ltd

Address: 4th Floor, Tower F, Fuanna Industrial Park, Qingning Road, Longhua District,  
Shenzhen, China

Manufacturer: Shenzhen Viofo Technology Co.,Ltd

Address: 4th Floor, Tower F, Fuanna Industrial Park, Qingning Road, Longhua District,  
Shenzhen, China

Prepared By: Shenzhen BCTC Technology Co., Ltd.

Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang,  
Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China.

Sample Received Date: 2026-09-09

Sample Tested Date: 2026-09-09 to 2026-09-21

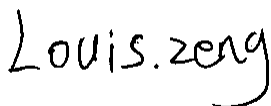
Report No.: BCTC2609775317-4E

Test Standards: 47 CFR Part 15 Subpart E (clause 15.407)  
ANSI C63.10-2020 + Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Results: PASS

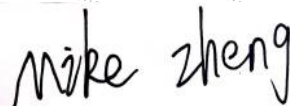
Remark: This is WIFI 5 GHz band radio test report.

Prepared by :



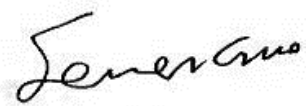
Louis Zeng

Reviewer by :



Mike Zheng

Approved by:



Sewen Guo

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

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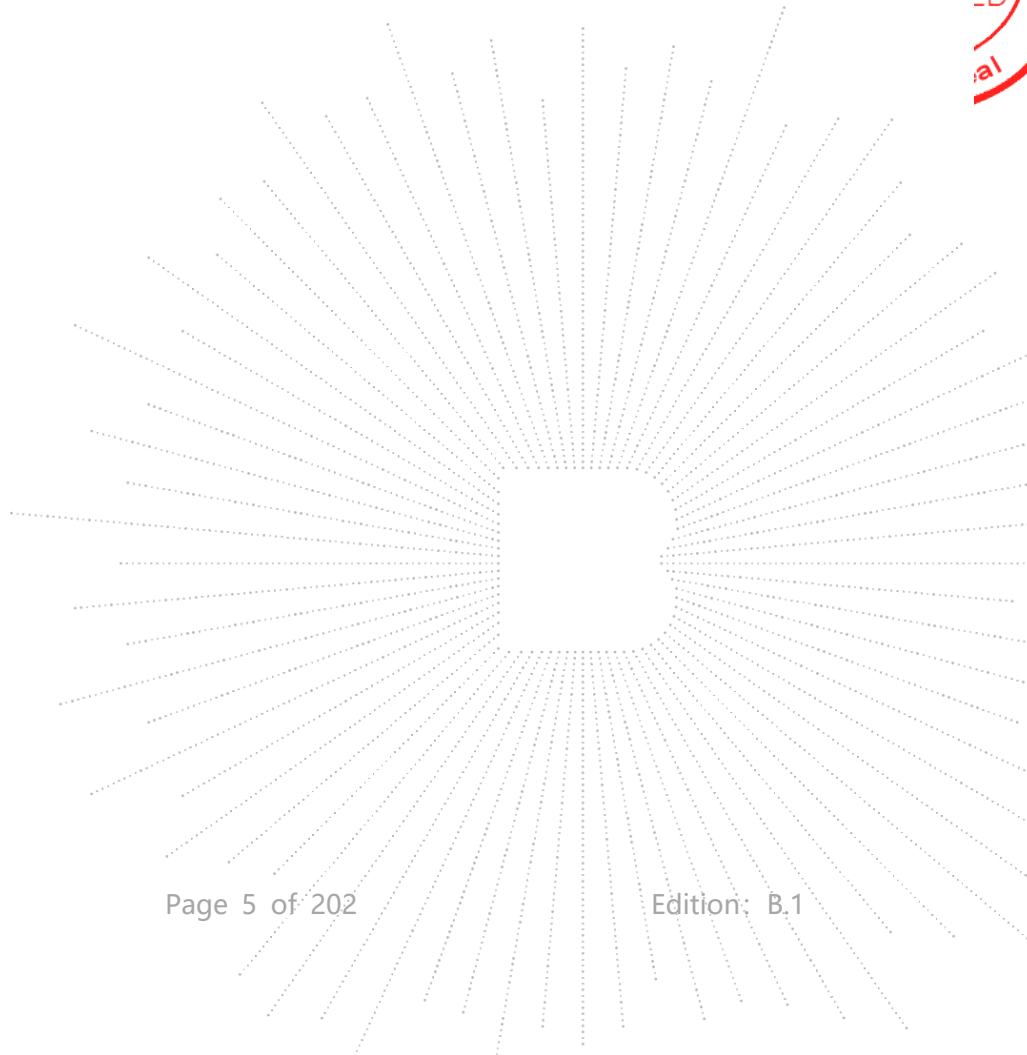
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(Note: N/A Means Not Applicable)

**1. Version**

| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2609775317-4E | 2026-09-30 | Original    | Valid    |



## 2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter                          | Clause No.              | Results          |
|-----|-----------------------------------------|-------------------------|------------------|
| 1   | Spurious Radiated Emissions             | 15.209(a)<br>15.407 (b) | PASS*            |
| 2   | Conducted Emission                      | 15.207                  | N/A <sup>1</sup> |
| 3   | 26 dB and 99% Emission Bandwidth        | 15.407 a                | PASS*            |
| 4   | Minimum 6 dB bandwidth                  | 15.407(e)               | PASS*            |
| 5   | Maximum Conducted Output Power          | 15.407 a                | PASS*            |
| 6   | Band Edge                               | 15.407 b                | PASS*            |
| 7   | Power Spectral Density                  | 15.407 a                | PASS*            |
| 8   | Spurious Emissions at Antenna Terminals | 15.407 b                | PASS*            |
| 9   | Antenna Requirement                     | 15.203                  | PASS             |

NOTE1: N/A (Not Applicable)

NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

NOTE3: "\*" indicates that the test results are determined base on 47 CFR Part 15 Subpart E (clause 15.407). And the test results are took into account measurement uncertainty(see section 3 for measurement uncertainty information)

NOTE4:N/A<sup>1</sup>This product is DC vehicle equipment and is not applicable to this test.

BCTC CO., LTD

### 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2:2011/AMD2:2018. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item                                               | Uncertainty |
|-----|----------------------------------------------------|-------------|
| 1   | 3m chamber Radiated spurious emission(9kHz-30MHz)  | U=3.7dB     |
| 2   | 3m chamber Radiated spurious emission(30MHz-1GHz)  | U=4.8dB     |
| 3   | 3m chamber Radiated spurious emission(1GHz-18GHz)  | U=5.5dB     |
| 4   | 3m chamber Radiated spurious emission(18GHz-40GHz) | U=5.0dB     |
| 5   | Conducted Emission(150kHz-30MHz)                   | U=3.0dB     |
| 6   | Power Spectral Density                             | U=3.46dB    |
| 7   | Peak Power                                         | U=0.31dB    |
| 8   | Occupied Bandwidth/Frequency Range                 | U=3.46%     |
| 9   | Conducted output power uncertainty                 | U=0.55dB    |
| 10  | Frequency Error                                    | U= 53.50 Hz |
| 11  | Frequency Drift                                    | U=0.64 KHz  |
| 12  | Temperature                                        | U= 0.59 °C  |
| 13  | Humidity                                           | U= 5.3 %    |

## 4. Product Information And Test Setup

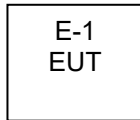
### 4.1 Product Information

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Model/Type reference:            | T330,T330 2CH,T330C 2CH,T330 3CH,T330CC 3CH,T330T 2CH,T330T 3CH,T330TW,T330TT 3CH,T330TC 3CH,T330W 2CH,T330W 3CH,T330WW 3CH,T340,T340 3CH,T340W 3CH,T340WW 4CH,T340TC 3CH,T340T 4CH,T340TW 4CH,T330 Pro,T340 Pro                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| Model differences:               | The main model and subsequent models tested in this test differ only in model naming. All other aspects, including materials, other manufacturing processes, circuit design, and manufacturers, are exactly the same. We finally decided on the T330 as the test model.                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| Device type:                     | Client                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| TPC Function:                    | <input type="checkbox"/> Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> Not Applicable |
| Hardware Version:                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |
| Software Version:                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |
| IEEE 802.11 WLAN Mode Supported: | <input checked="" type="checkbox"/> 802.11a<br><input checked="" type="checkbox"/> 802.11n(20MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11n(40MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ac(20MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ac(40MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ac(80MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ax(20MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ax(40MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11ax(80MHz channel bandwidth) |                                                    |
| Operation Frequency:             | 5180-5240MHz for 802.11 a/n(HT20)/ac(VHT)20/ax(VHT)20;<br>5190-5230MHz for 802.11 n(HT40)/ac(VHT)40/ax(VHT)40;<br>5210MHz for 802.11 ac(VHT)80/ax(VHT)80;<br>5745-5825MHz for 802.11a/n(HT20)/ac(VHT)20/ax(VHT)20;<br>5755-5795MHz for 802.11n(HT40)/ac(VHT)40/ax(VHT)40;<br>5775MHz for 802.11 ac(VHT)80/ax(VHT)80.                                                                                                                                                                                                                                                                                                                              |                                                    |
| Type of Modulation:              | <input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n<br><input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac<br><input checked="" type="checkbox"/> OFDMA with 1024QAM for 802.11AX HE                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| Antenna installation:            | Internal antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| Antenna Gain:                    | 3.85 dBi<br><br>Remark:<br><input checked="" type="checkbox"/> The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. The laboratory assumes no responsibility for its authenticity.<br><input type="checkbox"/> The antenna gain of the product is provided by the customer, and the test data is affected by the customer information. The laboratory assumes no responsibility for its authenticity.                                                                                                                                               |                                                    |
| Ratings:                         | Input: DC 12-24V<br>Output: USB-C(Blue):DC5V/3A,12V/2.5A,15/2A,20/1.5A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |

## 4.2 Test Setup Configuration

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

Radiated Spurious Emission:



## 4.3 Support Equipment

| No. | Device Type     | Brand | Model | Series No. | Note |
|-----|-----------------|-------|-------|------------|------|
| E-1 | Car Dash Camera | N/A   | T330  | N/A        | EUT  |
| N/A | N/A             | N/A   | N/A   | N/A        | N/A  |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| N/A  | N/A           | N/A          | N/A    | N/A  |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

#### 4.4 Channel List

| (U-NII-1) 5180MHz-5240MHz |         |                 |         |                 |
|---------------------------|---------|-----------------|---------|-----------------|
| Bandwidth                 | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                     | 36      | 5180            | 40      | 5200            |
|                           | 44      | 5220            | 48      | 5240            |
| 40MHz                     | 38      | 5190            | 46      | 5230            |
| 80MHz                     | 42      | 5210            |         |                 |

| (U-NII-3) 5745MHz-5825MHz |         |                 |         |                 |
|---------------------------|---------|-----------------|---------|-----------------|
| Bandwidth                 | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                     | 149     | 5745            | 153     | 5765            |
|                           | 157     | 5785            | 161     | 5805            |
|                           | 165     | 5825            |         |                 |
| 40MHz                     | 151     | 5755            | 159     | 5795            |
| 80MHz                     | 155     | 5775            |         |                 |

#### 4.5 Test Mode

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

| Pretest Mode | Description                                                                          |
|--------------|--------------------------------------------------------------------------------------|
| Mode 1       | 802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165<br>802.11a / n/ ac/ax 20 CH36/ CH40/ CH 48 |
| Mode 2       | 802.11n/ ac/ax 40 CH 151 / CH 159<br>802.11n/ ac/ax 40 CH38/ CH 46                   |
| Mode 3       | 802.11 ac/ax 80 CH 155<br>802.11 ac/ax 80 CH 42                                      |
| Mode 4       | Transmitting (Radiated emission)                                                     |

Note:

1. The measurements are performed at the highest, middle, lowest available channels.
2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
3. The 802.11ax mode is investigated among different tones(26/52/106/242-tone RU channel), full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

#### 4.6 Table Of Parameters Of Text Software Setting

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

| RF Function | Mode Or Modulation type | Power Class | Software For Testing |
|-------------|-------------------------|-------------|----------------------|
| WIFI 5.1G   | 802.11a                 | 13          | CRT                  |
|             | 802.11n/ac/ax20         | 11          |                      |
|             | 802.11n/ac/ax40         | 10          |                      |
|             | 802.11ac/ax80           | 9           |                      |

| RF Function | Mode Or Modulation type | Power Class | Software For Testing |
|-------------|-------------------------|-------------|----------------------|
| WIFI 5.8G   | 802.11a                 | 14          | CRT                  |
|             | 802.11n/ac/ax20         | 12          |                      |
|             | 802.11n/ac/ax40         | 11          |                      |
|             | 802.11ac/ax80           | 11          |                      |

## 5. Test Facility And Test Instrument Used

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Technology Co., Ltd.

Address: Room 101M, Unit 1, Building1, Pengyuan, No.18, Lilang Road, Shanglilang, Nanwan Subdistrict, Longgang District, Shenzhen, Guangdong, China.

The site and apparatus are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-1:2019 other equivalent standards.

FCC Test Firm Registration Number: 754702

ANAB certificate registration number is: CN3479

### 5.2 Test Instrument Used

| Conducted emissions Test |              |                 |         |            |            |
|--------------------------|--------------|-----------------|---------|------------|------------|
| Equipment                | Manufacturer | Model#          | Serial# | Last Cal.  | Next Cal.  |
| Receiver                 | R&S          | ESCI            | 101421  | 2026.08.24 | 2027.08.23 |
| AMN                      | SCHWHRZBECK  | NSLK8128        | 05152   | 2026.01.22 | 2027.01.21 |
| AMN                      | SCHWHRZBECK  | NSLK8127        | 8127739 | 2026.08.24 | 2027.08.23 |
| Pulse Limiter            | SCHWHRZBECK  | VTSD 9561-F-N   | 00547   | 2026.08.24 | 2027.08.23 |
| Temperature & Humidity   | Wetest       | HTC-1           | /       | 2026.08.25 | 2027.08.24 |
| Software                 | EZ-EMC       | Ver.EMC-CON 3A1 | /       | /          | /          |

| Radiated disturbance 1#    |              |             |         |            |            |
|----------------------------|--------------|-------------|---------|------------|------------|
| Equipment                  | Manufacturer | Model#      | Serial# | Last Cal.  | Next Cal.  |
| Shielded room              | CRT          | 9*6*6       | /       | 2026.07.24 | 2029.07.23 |
| Broadband antenna          | Schwarzbeck  | VULB9160    | 3369    | 2026.08.24 | 2027.08.23 |
| Receiver                   | R&S          | ESPI        | 101396  | 2026.08.24 | 2027.08.23 |
| Preamplifier               | Schwarzbeck  | BBV9744     | 00342   | 2026.05.16 | 2027.05.15 |
| Loop Antenna               | Schwarzbeck  | FMZB1519B   | 00014   | 2026.01.05 | 2027.01.04 |
| RF cable 5#<br>(9kHz-6GHz) | Yunyi        | 3M          | /       | 2026.08.24 | 2027.08.23 |
| RF cable 8#<br>(9kHz-1GHz) | Yunyi        | 7M          | /       | 2025.10.28 | 2026.10.27 |
| Temperature & Humidity     | Wetest       | HTC-1       | /       | 2026.08.25 | 2027.08.24 |
| Software                   | EZ-EMC       | Ver.FA-03A2 | /       | /          | /          |

| Radiated disturbance 2#       |                                   |                   |                |            |            |
|-------------------------------|-----------------------------------|-------------------|----------------|------------|------------|
| Equipment                     | Manufacturer                      | Model#            | Serial#        | Last Cal.  | Next Cal.  |
| Shielded room                 | ChengYu                           | 9*6*6             | /              | 2023.09.25 | 2026.09.24 |
| Loop Antenna                  | Schwarzbeck                       | FMZB1519B         | 00014          | 2026.01.05 | 2027.01.04 |
| Broadband antenna             | SCHWHRZBEC<br>K                   | VULB9168          | 01620          | 2026.08.22 | 2027.08.21 |
| Horn antenna( 1 GHz -18GHz)   | SCHWARZBECK                       | BBHA 9120 D       | 2792           | 2026.08.22 | 2027.08.21 |
| Horn antenna ( 18 GHz -40GHz) | SCHWARZBECK                       | BBHA9170          | 00822          | 2025.12.29 | 2026.12.28 |
| Receiver                      | R&S                               | ESR               | 1316           | 2026.08.24 | 2027.08.23 |
| Spectrum Analyzer             | R&S                               | FSV40             | 101328         | 2026.01.22 | 2027.01.21 |
| Amplifier                     | SCHWHRZBEC<br>K                   | BBV9744           | 568            | 2026.08.24 | 2027.08.23 |
| Amplifier                     | EMC<br>INSTRUMENTS<br>CORPORATION | EMC0518A45SE<br>E | EMT-SZ2<br>233 | 2026.08.24 | 2027.08.23 |
| Amplifier (18GHz-40GHz)       | MITEQ                             | TTA1840-35-HG     | 2034381        | 2026.05.09 | 2027.05.08 |
| RF cable 3# (9kHz-6GHz)       | Yunyi                             | 10M               | /              | 2026.08.24 | 2027.08.23 |
| RF cable 9# (9kHz-1GHz)       | Yunyi                             | 2M                | /              | 2025.10.28 | 2026.10.27 |
| RF cable 5# (1GHz -18GHz)     | SKET                              | 9M                | 18038626       | 2026.08.24 | 2027.08.23 |
| RF cable 6# (1GHz -18GHz)     | SKET                              | 5M                | #10            | 2026.08.24 | 2027.08.23 |
| RF cable 10# (18GHz-40GHz)    | /                                 | 2M                | 2M             | 2026.05.09 | 2027.05.08 |
| RF cable 11# (18GHz-40GHz)    | /                                 | 2.5M              | 2.5M           | 2026.05.09 | 2027.05.08 |
| Temperature & Humidity        | Wetest                            | HTC-1             | /              | 2026.08.25 | 2027.08.24 |
| Software                      | EZ-EMC                            | Ver.FA-03A2       | /              | /          | /          |

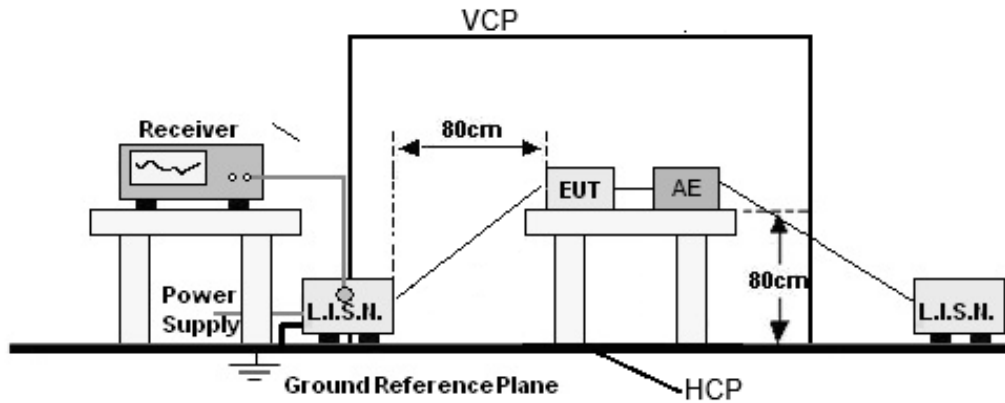
| RF Conducted Test      |              |        |            |            |            |
|------------------------|--------------|--------|------------|------------|------------|
| Equipment              | Manufacturer | Model# | Serial#    | Last Cal.  | Next Cal.  |
| Spectrum Analyzer      | Keysight     | N9020A | MY51287403 | 2026.08.24 | 2027.08.23 |
| Signal Generator       | Keysight     | N5182A | MY50144088 | 2026.08.24 | 2027.08.23 |
| Power Sensor           | Keysight     | U2001  | MY51250006 | 2025.10.28 | 2026.10.27 |
| Temperature & Humidity | Wetest       | HTC-1  | /          | 2026.08.25 | 2027.08.24 |
| Communication test set | R&S          | CMW500 | 157483     | 2026.08.24 | 2027.08.23 |

|                                       |                                |                 |           |            |            |
|---------------------------------------|--------------------------------|-----------------|-----------|------------|------------|
| Radio frequency control box           | MWRFtest                       | MW100-RFCB      | \         | \          | \          |
| Software                              | MWRFtest                       | MTS 8310        | V 3.0.0.0 | \          | \          |
| D.C. Power Supply                     | Elektro-Automatik GmbH & Co.KG | D-41747 Viersen | 6230316   | 2026.08.24 | 2027.08.23 |
| Temperature and humidity test chamber | Auchno                         | OJN-9606-408 L  | 19120183  | 2026.07.07 | 2027.07.06 |



## 6. Conducted Emissions

### 6.1 Block Diagram Of Test Setup



### 6.2 Limit

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

Notes:  
1. \*Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.

### 6.3 Test procedure

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

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

### 6.4 EUT operating Conditions

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

## 6.5 Test Result

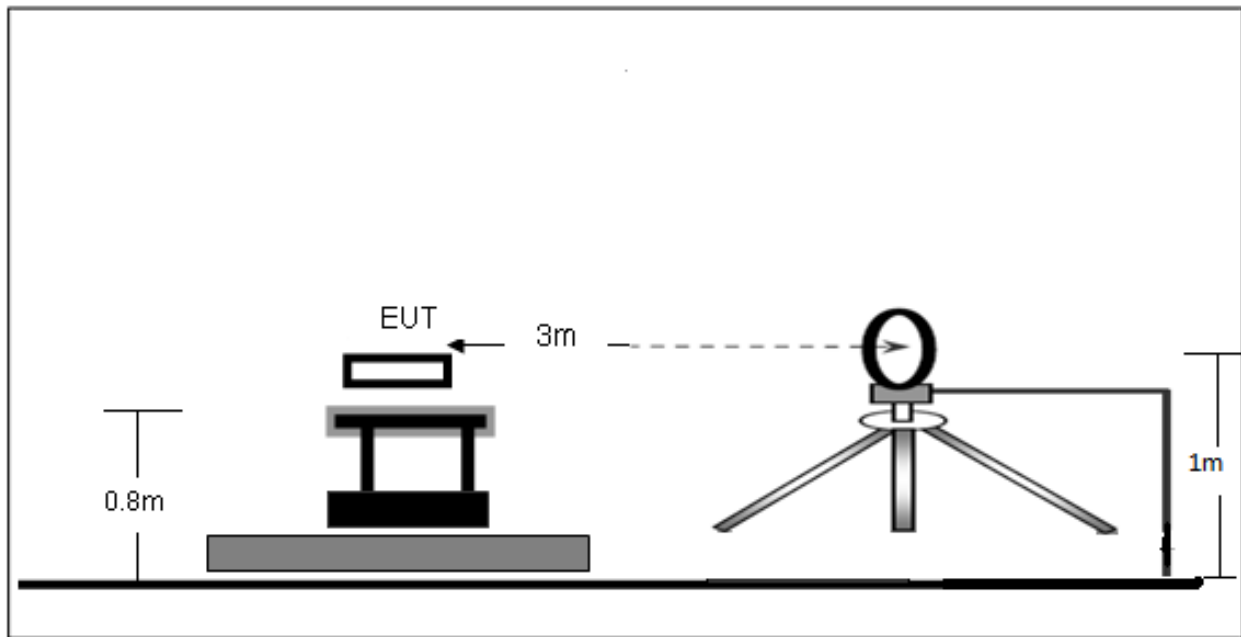
This product is DC vehicle equipment and is not applicable to this test.

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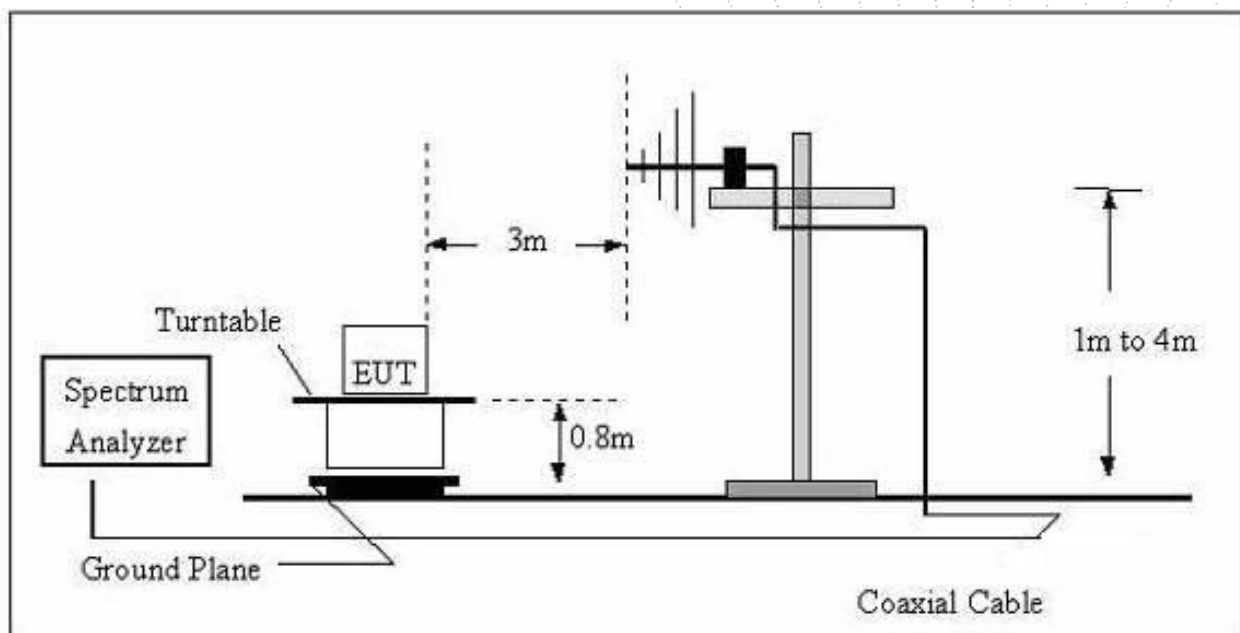
## 7. Radiated Emissions

### 7.1 Block Diagram Of Test Setup

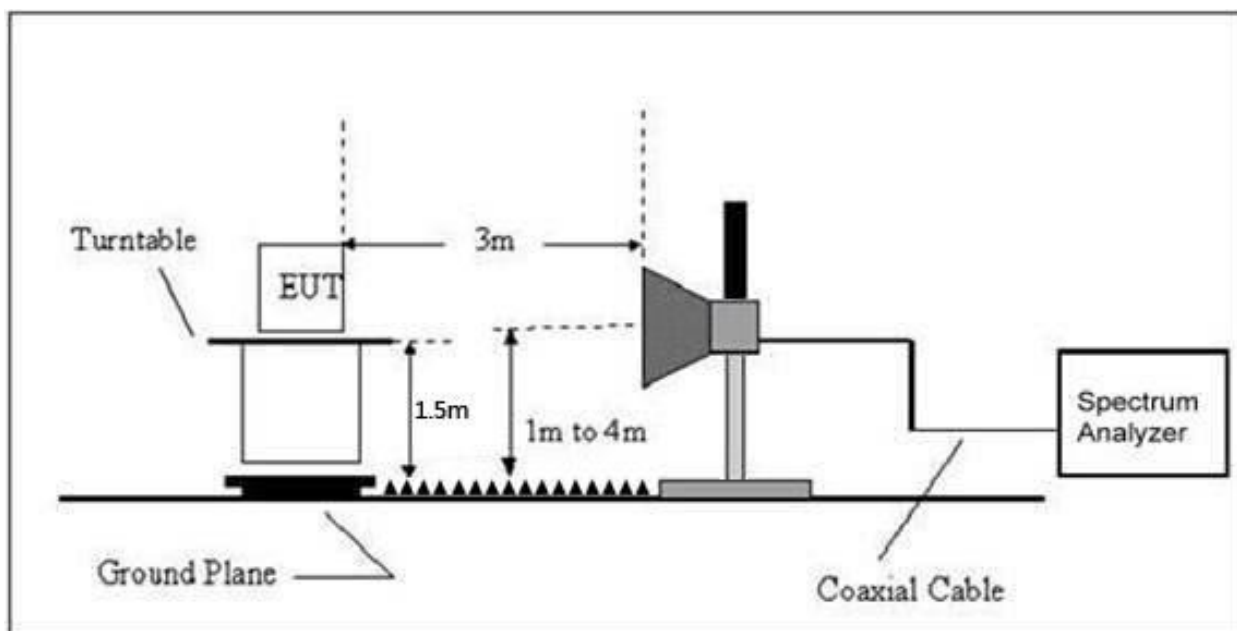
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



## 7.2 Limit

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

| Frequency<br>(MHz) | Field Strength<br>uV/m | Distance<br>(m) | Field Strength Limit at 3m Distance |                                       |
|--------------------|------------------------|-----------------|-------------------------------------|---------------------------------------|
|                    |                        |                 | uV/m                                | dBuV/m                                |
| 0.009 ~ 0.490      | $2400/F(\text{kHz})$   | 300             | $10000 * 2400/F(\text{kHz})$        | $20\log^{(2400/F(\text{kHz}))} + 80$  |
| 0.490 ~ 1.705      | $24000/F(\text{kHz})$  | 30              | $100 * 24000/F(\text{kHz})$         | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30         | 30                     | 30              | $100 * 30$                          | $20\log^{(30)} + 40$                  |
| 30 ~ 88            | 100                    | 3               | 100                                 | $20\log^{(100)}$                      |
| 88 ~ 216           | 150                    | 3               | 150                                 | $20\log^{(150)}$                      |
| 216 ~ 960          | 200                    | 3               | 200                                 | $20\log^{(200)}$                      |
| Above 960          | 500                    | 3               | 500                                 | $20\log^{(500)}$                      |

### Limits Of Radiated Emission Measurement (Above 1000MHz)

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

#### Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

| Spectrum Parameter                    | Setting                                          |
|---------------------------------------|--------------------------------------------------|
| Attenuation                           | Auto                                             |
| Start Frequency                       | 1000 MHz                                         |
| Stop Frequency                        | 10th carrier harmonic                            |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Above 1000           | Peak     | 1 MHz                | 1 MHz           |
|                      | Average  | 1 MHz                | 10 Hz           |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$ . , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

## 7.4 EUT Operating Conditions

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

## 7.5 Test Result

Below 30MHz

|              |         |                    |        |
|--------------|---------|--------------------|--------|
| Temperature: | 26.8°C  | Relative Humidity: | 48%RH  |
| Pressure:    | 101 kPa | Test Voltage :     | DC 12V |
| Test Mode:   | Mode 4  | Polarization:      | --     |

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

Note:

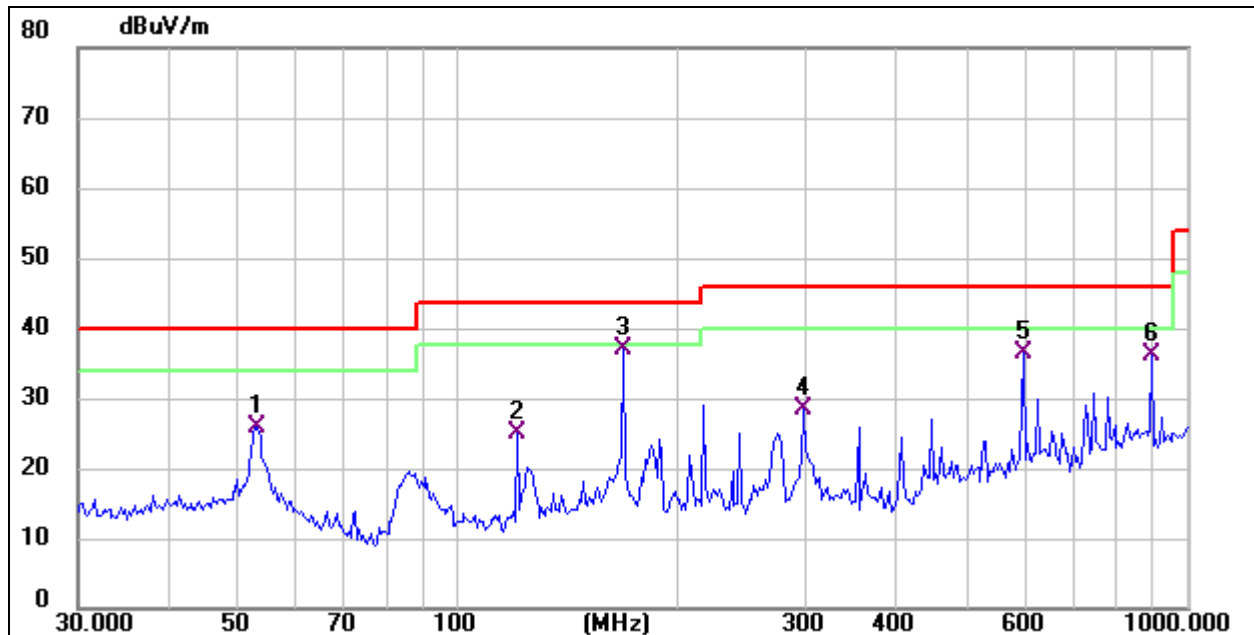
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

Between 30MHz – 1GHz

|                |         |                    |            |
|----------------|---------|--------------------|------------|
| Temperature:   | 26.8 °C | Relative Humidity: | 48%RH      |
| Pressure:      | 101KPa  | Phase :            | Horizontal |
| Test Voltage : | DC 12V  | Test Mode:         | Mode 4     |

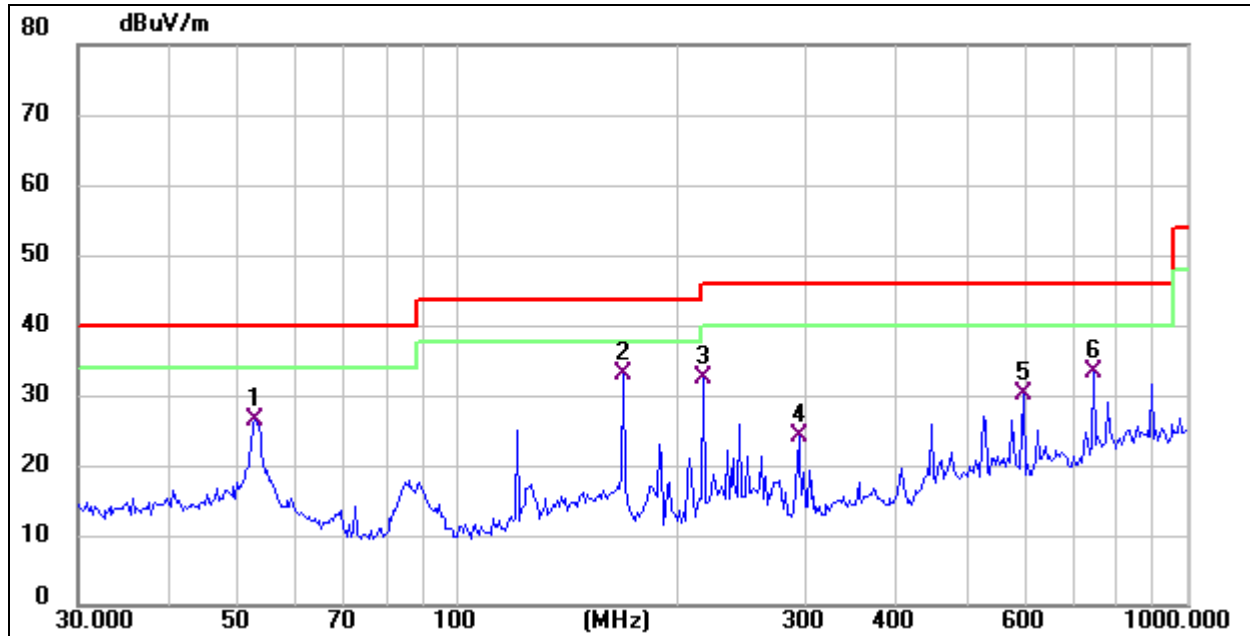


Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.  
Margin = (Reading + Factor) – Limit

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 52.9453         | 36.71          | -10.86        | 25.85          | 40.00          | -14.15      | QP       |
| 2   | 120.2766        | 36.97          | -11.97        | 25.00          | 43.50          | -18.50      | QP       |
| 3 * | 168.4138        | 47.16          | -10.12        | 37.04          | 43.50          | -6.46       | QP       |
| 4   | 297.2241        | 39.52          | -11.18        | 28.34          | 46.00          | -17.66      | QP       |
| 5   | 595.1329        | 41.10          | -4.76         | 36.34          | 46.00          | -9.66       | QP       |
| 6   | 893.8567        | 35.85          | 0.24          | 36.09          | 46.00          | -9.91       | QP       |

\* Indicates the worst data.

|                |         |                    |          |
|----------------|---------|--------------------|----------|
| Temperature:   | 26.8 °C | Relative Humidity: | 48%RH    |
| Pressure:      | 101KPa  | Phase :            | Vertical |
| Test Voltage : | DC 12V  | Test Mode:         | Mode 4   |



Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.  
Margin = (Reading + Factor) – Limit

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 52.5753         | 37.07          | -10.75        | 26.32          | 40.00          | -13.68      | QP       |
| 2 * | 168.4138        | 43.22          | -10.12        | 33.10          | 43.50          | -10.40      | QP       |
| 3   | 216.7828        | 45.46          | -12.94        | 32.52          | 46.00          | -13.48      | QP       |
| 4   | 291.0360        | 35.30          | -11.16        | 24.14          | 46.00          | -21.86      | QP       |
| 5   | 595.1329        | 34.82          | -4.76         | 30.06          | 46.00          | -15.94      | QP       |
| 6   | 744.8661        | 36.04          | -2.73         | 33.31          | 46.00          | -12.69      | QP       |

\* Indicates the worst data.

|            |                    |
|------------|--------------------|
| Test Mode: | TX(5.1G) - 802.11a |
|------------|--------------------|

| Polar                              | Fre-<br>quency | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limits   | Over   | Detector<br>Type |
|------------------------------------|----------------|------------------|-------------------|------------------|----------|--------|------------------|
| (H/V)                              | (MHz)          | (dBuV/m)         | (dB)              | (dBuV/m)         | (dBuV/m) | (dB)   |                  |
| Low Channel (5180 MHz)-Above 1G    |                |                  |                   |                  |          |        |                  |
| Vertical                           | 4434.19        | 72.29            | -10.51            | 61.78            | 68.20    | -6.42  | PK               |
| Vertical                           | 4434.19        | 59.26            | -10.51            | 48.75            | 54.00    | -5.25  | AV               |
| Vertical                           | 10360.02       | 61.34            | -0.72             | 60.62            | 68.20    | -7.58  | PK               |
| Vertical                           | 10360.02       | 49.87            | -0.72             | 49.15            | 54.00    | -4.85  | AV               |
| Vertical                           | 15540.18       | 63.03            | 2.59              | 65.62            | 74.00    | -8.38  | PK               |
| Vertical                           | 15540.18       | 49.20            | 2.59              | 51.79            | 54.00    | -2.21  | AV               |
| Horizontal                         | 4434.10        | 70.97            | -10.51            | 60.46            | 68.20    | -7.74  | PK               |
| Horizontal                         | 4434.10        | 59.74            | -10.51            | 49.23            | 54.00    | -4.77  | AV               |
| Horizontal                         | 10360.05       | 62.95            | -0.72             | 62.23            | 68.20    | -5.97  | PK               |
| Horizontal                         | 10360.05       | 49.22            | -0.72             | 48.50            | 54.00    | -5.50  | AV               |
| Horizontal                         | 15540.01       | 63.25            | 2.59              | 65.84            | 74.00    | -8.16  | PK               |
| Horizontal                         | 15540.01       | 49.31            | 2.59              | 51.90            | 54.00    | -2.10  | AV               |
| middle Channel (5200 MHz)-Above 1G |                |                  |                   |                  |          |        |                  |
| Vertical                           | 4592.14        | 74.50            | -10.20            | 64.30            | 74.00    | -9.70  | PK               |
| Vertical                           | 4592.14        | 59.08            | -10.20            | 48.88            | 54.00    | -5.12  | AV               |
| Vertical                           | 10400.10       | 61.48            | -0.67             | 60.81            | 68.20    | -7.39  | PK               |
| Vertical                           | 10400.10       | 49.15            | -0.67             | 48.48            | 54.00    | -5.52  | AV               |
| Vertical                           | 15600.07       | 60.15            | 2.67              | 62.82            | 74.00    | -11.18 | PK               |
| Vertical                           | 15600.07       | 49.12            | 2.67              | 51.79            | 54.00    | -2.21  | AV               |
| Horizontal                         | 4592.06        | 71.02            | -10.20            | 60.82            | 74.00    | -13.18 | PK               |
| Horizontal                         | 4592.06        | 59.78            | -10.20            | 49.58            | 54.00    | -4.42  | AV               |
| Horizontal                         | 10400.11       | 64.91            | -0.67             | 64.24            | 68.20    | -3.96  | PK               |
| Horizontal                         | 10400.11       | 49.99            | -0.67             | 49.32            | 54.00    | -4.68  | AV               |
| Horizontal                         | 15600.00       | 60.07            | 2.67              | 62.74            | 74.00    | -11.26 | PK               |
| Horizontal                         | 15600.00       | 49.13            | 2.67              | 51.80            | 54.00    | -2.20  | AV               |
| High Channel (5240 MHz)-Above 1G   |                |                  |                   |                  |          |        |                  |
| Vertical                           | 4739.03        | 72.67            | -9.45             | 63.22            | 74.00    | -10.78 | PK               |
| Vertical                           | 4739.03        | 59.21            | -9.45             | 49.76            | 54.00    | -4.24  | AV               |
| Vertical                           | 10480.02       | 60.26            | -0.64             | 59.62            | 68.20    | -8.58  | PK               |
| Vertical                           | 10480.02       | 49.78            | -0.64             | 49.14            | 54.00    | -4.86  | AV               |
| Vertical                           | 15720.10       | 62.63            | 2.33              | 64.96            | 74.00    | -9.04  | PK               |
| Vertical                           | 15720.10       | 49.17            | 2.33              | 51.50            | 54.00    | -2.50  | AV               |
| Horizontal                         | 4739.04        | 71.79            | -9.45             | 62.34            | 74.00    | -11.66 | PK               |
| Horizontal                         | 4739.04        | 59.96            | -9.45             | 50.51            | 54.00    | -3.49  | AV               |
| Horizontal                         | 10480.16       | 61.89            | -0.64             | 61.25            | 68.20    | -6.95  | PK               |
| Horizontal                         | 10480.16       | 49.95            | -0.64             | 49.31            | 54.00    | -4.69  | AV               |
| Horizontal                         | 15720.09       | 63.48            | 2.33              | 65.81            | 74.00    | -8.19  | PK               |
| Horizontal                         | 15720.09       | 49.21            | 2.33              | 51.54            | 54.00    | -2.46  | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.1G) - 802.11n-HT20 |
|------------|-------------------------|

| Polar                              | Frequency | Reading Level | Correct Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|---------------|----------------|-------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV/m)      | (dB)           | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5180 MHz)-Above 1G    |           |               |                |             |          |        |               |
| Vertical                           | 4434.04   | 71.84         | -10.51         | 61.33       | 68.20    | -6.87  | PK            |
| Vertical                           | 4434.04   | 59.42         | -10.51         | 48.91       | 54.00    | -5.09  | AV            |
| Vertical                           | 10360.01  | 61.17         | -0.72          | 60.45       | 68.20    | -7.75  | PK            |
| Vertical                           | 10360.01  | 49.32         | -0.72          | 48.60       | 54.00    | -5.40  | AV            |
| Vertical                           | 15540.13  | 61.32         | 2.59           | 63.91       | 74.00    | -10.09 | PK            |
| Vertical                           | 15540.13  | 49.43         | 2.59           | 52.02       | 54.00    | -1.98  | AV            |
| Horizontal                         | 4434.05   | 70.14         | -10.51         | 59.63       | 68.20    | -8.57  | PK            |
| Horizontal                         | 4434.05   | 59.61         | -10.51         | 49.10       | 54.00    | -4.90  | AV            |
| Horizontal                         | 10360.18  | 63.87         | -0.72          | 63.15       | 68.20    | -5.05  | PK            |
| Horizontal                         | 10360.18  | 49.86         | -0.72          | 49.14       | 54.00    | -4.86  | AV            |
| Horizontal                         | 15540.04  | 64.08         | 2.59           | 66.67       | 74.00    | -7.33  | PK            |
| Horizontal                         | 15540.04  | 49.34         | 2.59           | 51.93       | 54.00    | -2.07  | AV            |
| middle Channel (5200 MHz)-Above 1G |           |               |                |             |          |        |               |
| Vertical                           | 4592.02   | 72.95         | -10.20         | 62.75       | 74.00    | -11.25 | PK            |
| Vertical                           | 4592.02   | 59.07         | -10.20         | 48.87       | 54.00    | -5.13  | AV            |
| Vertical                           | 10400.14  | 64.64         | -0.67          | 63.97       | 68.20    | -4.23  | PK            |
| Vertical                           | 10400.14  | 49.81         | -0.67          | 49.14       | 54.00    | -4.86  | AV            |
| Vertical                           | 15600.04  | 61.55         | 2.67           | 64.22       | 74.00    | -9.78  | PK            |
| Vertical                           | 15600.04  | 49.14         | 2.67           | 51.81       | 54.00    | -2.19  | AV            |
| Horizontal                         | 4592.13   | 73.78         | -10.20         | 63.58       | 74.00    | -10.42 | PK            |
| Horizontal                         | 4592.13   | 59.45         | -10.20         | 49.25       | 54.00    | -4.75  | AV            |
| Horizontal                         | 10400.17  | 60.91         | -0.67          | 60.24       | 68.20    | -7.96  | PK            |
| Horizontal                         | 10400.17  | 49.95         | -0.67          | 49.28       | 54.00    | -4.72  | AV            |
| Horizontal                         | 15600.14  | 60.74         | 2.67           | 63.41       | 74.00    | -10.59 | PK            |
| Horizontal                         | 15600.14  | 49.99         | 2.67           | 52.66       | 54.00    | -1.34  | AV            |
| High Channel (5240 MHz)-Above 1G   |           |               |                |             |          |        |               |
| Vertical                           | 4739.01   | 70.44         | -9.45          | 60.99       | 74.00    | -13.01 | PK            |
| Vertical                           | 4739.01   | 59.99         | -9.45          | 50.54       | 54.00    | -3.46  | AV            |
| Vertical                           | 10480.08  | 64.49         | -0.64          | 63.85       | 68.20    | -4.35  | PK            |
| Vertical                           | 10480.08  | 49.26         | -0.64          | 48.62       | 54.00    | -5.38  | AV            |
| Vertical                           | 15720.20  | 63.88         | 2.33           | 66.21       | 74.00    | -7.79  | PK            |
| Vertical                           | 15720.20  | 49.61         | 2.33           | 51.94       | 54.00    | -2.06  | AV            |
| Horizontal                         | 4739.16   | 70.99         | -9.45          | 61.54       | 74.00    | -12.46 | PK            |
| Horizontal                         | 4739.16   | 59.86         | -9.45          | 50.41       | 54.00    | -3.59  | AV            |
| Horizontal                         | 10480.16  | 62.60         | -0.64          | 61.96       | 68.20    | -6.24  | PK            |
| Horizontal                         | 10480.16  | 49.38         | -0.64          | 48.74       | 54.00    | -5.26  | AV            |
| Horizontal                         | 15720.01  | 61.91         | 2.33           | 64.24       | 74.00    | -9.76  | PK            |
| Horizontal                         | 15720.01  | 49.58         | 2.33           | 51.91       | 54.00    | -2.09  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.  
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.  
Emission level (dBuV/m) = 20 log Emission level (uV/m).  
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor  
Over = Reading Level + Correct Factor - Limits

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.1G) - 802.11n-HT40 |
|------------|-------------------------|

| Polar<br>(H/V)                   | Fre-<br>quency<br>(MHz) | Reading<br>Level<br>(dBuV/m) | Correct<br>Factor<br>(dB) | Measure-<br>ment<br>(dBuV/m) | Limits<br>(dBuV/m) | Over<br>(dB) | Detector<br>Type |
|----------------------------------|-------------------------|------------------------------|---------------------------|------------------------------|--------------------|--------------|------------------|
| Low Channel (5190 MHz)-Above 1G  |                         |                              |                           |                              |                    |              |                  |
| Vertical                         | 4434.17                 | 74.15                        | -10.52                    | 63.63                        | 68.20              | -4.57        | PK               |
| Vertical                         | 4434.17                 | 59.03                        | -10.52                    | 48.51                        | 54.00              | -5.49        | AV               |
| Vertical                         | 10380.13                | 60.70                        | -0.70                     | 60.00                        | 68.20              | -8.20        | PK               |
| Vertical                         | 10380.13                | 49.46                        | -0.70                     | 48.76                        | 54.00              | -5.24        | AV               |
| Vertical                         | 15570.11                | 61.19                        | 2.39                      | 63.58                        | 74.00              | -10.42       | PK               |
| Vertical                         | 15570.11                | 49.41                        | 2.39                      | 51.80                        | 54.00              | -2.20        | AV               |
| Horizontal                       | 4434.01                 | 73.09                        | -10.52                    | 62.57                        | 74.00              | -11.43       | PK               |
| Horizontal                       | 4434.01                 | 59.91                        | -10.52                    | 49.39                        | 54.00              | -4.61        | AV               |
| Horizontal                       | 10380.06                | 63.15                        | -0.70                     | 62.45                        | 68.20              | -5.75        | PK               |
| Horizontal                       | 10380.06                | 49.52                        | -0.70                     | 48.82                        | 54.00              | -5.18        | AV               |
| Horizontal                       | 15570.09                | 63.43                        | 2.39                      | 65.82                        | 74.00              | -8.18        | PK               |
| Horizontal                       | 15570.09                | 49.64                        | 2.39                      | 52.03                        | 54.00              | -1.97        | AV               |
| High Channel (5230 MHz)-Above 1G |                         |                              |                           |                              |                    |              |                  |
| Vertical                         | 4739.05                 | 74.61                        | -9.45                     | 65.16                        | 68.20              | -3.04        | PK               |
| Vertical                         | 4739.05                 | 59.88                        | -9.45                     | 50.43                        | 54.00              | -3.57        | AV               |
| Vertical                         | 10460.18                | 60.21                        | -0.65                     | 59.56                        | 68.20              | -8.64        | PK               |
| Vertical                         | 10460.18                | 49.19                        | -0.65                     | 48.54                        | 54.00              | -5.46        | AV               |
| Vertical                         | 15690.19                | 60.20                        | 2.33                      | 62.53                        | 74.00              | -11.47       | PK               |
| Vertical                         | 15690.19                | 49.02                        | 2.33                      | 51.35                        | 54.00              | -2.65        | AV               |
| Horizontal                       | 4739.15                 | 74.26                        | -9.45                     | 64.81                        | 68.20              | -3.39        | PK               |
| Horizontal                       | 4739.15                 | 59.04                        | -9.45                     | 49.59                        | 54.00              | -4.41        | AV               |
| Horizontal                       | 10460.06                | 63.74                        | -0.65                     | 63.09                        | 68.20              | -5.11        | PK               |
| Horizontal                       | 10460.06                | 49.22                        | -0.65                     | 48.57                        | 54.00              | -5.43        | AV               |
| Horizontal                       | 15690.03                | 60.02                        | 2.33                      | 62.35                        | 74.00              | -11.65       | PK               |
| Horizontal                       | 15690.03                | 49.47                        | 2.33                      | 51.80                        | 54.00              | -2.20        | AV               |

Note: PK value is lower than the Average value limit, So average didn't record.  
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.  
Emission level (dBuV/m) = 20 log Emission level (uV/m).  
Correct Factor =Antenna Factor + Cable Loss - Preamp Factor  
Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT20 |
|------------|--------------------------|

| Polar                              | Frequency | Reading Level | Correct Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|---------------|----------------|-------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV/m)      | (dB)           | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5180 MHz)-Above 1G    |           |               |                |             |          |        |               |
| Vertical                           | 4434.10   | 72.46         | -10.51         | 61.95       | 68.20    | -6.25  | Pk            |
| Vertical                           | 4434.10   | 59.09         | -10.51         | 48.58       | 54.00    | -5.42  | AV            |
| Vertical                           | 10360.00  | 63.97         | -0.72          | 63.25       | 68.20    | -4.95  | Pk            |
| Vertical                           | 10360.00  | 49.76         | -0.72          | 49.04       | 54.00    | -4.96  | AV            |
| Vertical                           | 15540.08  | 62.81         | 2.59           | 65.40       | 74.00    | -8.60  | Pk            |
| Vertical                           | 15540.08  | 49.22         | 2.59           | 51.81       | 54.00    | -2.19  | AV            |
| Horizontal                         | 4434.12   | 72.74         | -10.51         | 62.23       | 68.20    | -5.97  | Pk            |
| Horizontal                         | 4434.12   | 59.71         | -10.51         | 49.20       | 54.00    | -4.80  | AV            |
| Horizontal                         | 10360.18  | 61.37         | -0.72          | 60.65       | 68.20    | -7.55  | Pk            |
| Horizontal                         | 10360.18  | 49.51         | -0.72          | 48.79       | 54.00    | -5.21  | AV            |
| Horizontal                         | 15540.08  | 64.24         | 2.59           | 66.83       | 74.00    | -7.17  | Pk            |
| Horizontal                         | 15540.08  | 49.19         | 2.59           | 51.78       | 54.00    | -2.22  | AV            |
| middle Channel (5200 MHz)-Above 1G |           |               |                |             |          |        |               |
| Vertical                           | 4592.14   | 74.11         | -10.20         | 63.91       | 74.00    | -10.09 | Pk            |
| Vertical                           | 4592.14   | 59.08         | -10.20         | 48.88       | 54.00    | -5.12  | AV            |
| Vertical                           | 10400.10  | 63.40         | -0.67          | 62.73       | 68.20    | -5.47  | Pk            |
| Vertical                           | 10400.10  | 49.49         | -0.67          | 48.82       | 54.00    | -5.18  | AV            |
| Vertical                           | 15600.08  | 60.40         | 2.67           | 63.07       | 74.00    | -10.93 | Pk            |
| Vertical                           | 15600.08  | 49.21         | 2.67           | 51.88       | 54.00    | -2.12  | AV            |
| Horizontal                         | 4592.05   | 71.57         | -10.20         | 61.37       | 74.00    | -12.63 | Pk            |
| Horizontal                         | 4592.05   | 59.63         | -10.20         | 49.43       | 54.00    | -4.57  | AV            |
| Horizontal                         | 10400.13  | 63.42         | -0.67          | 62.75       | 68.20    | -5.45  | Pk            |
| Horizontal                         | 10400.13  | 50.00         | -0.67          | 49.33       | 54.00    | -4.67  | AV            |
| Horizontal                         | 15600.15  | 62.32         | 2.67           | 64.99       | 74.00    | -9.01  | Pk            |
| Horizontal                         | 15600.15  | 49.34         | 2.67           | 52.01       | 54.00    | -1.99  | AV            |
| High Channel (5240 MHz)-Above 1G   |           |               |                |             |          |        |               |
| Vertical                           | 4739.18   | 70.65         | -9.45          | 61.20       | 74.00    | -12.80 | Pk            |
| Vertical                           | 4739.18   | 59.96         | -9.45          | 50.51       | 54.00    | -3.49  | AV            |
| Vertical                           | 10480.13  | 61.95         | -0.64          | 61.31       | 68.20    | -6.89  | Pk            |
| Vertical                           | 10480.13  | 49.92         | -0.64          | 49.28       | 54.00    | -4.72  | AV            |
| Vertical                           | 15720.15  | 60.47         | 2.33           | 62.80       | 74.00    | -11.20 | Pk            |
| Vertical                           | 15720.15  | 49.23         | 2.33           | 51.56       | 54.00    | -2.44  | AV            |
| Horizontal                         | 4739.05   | 73.76         | -9.45          | 64.31       | 74.00    | -9.69  | Pk            |
| Horizontal                         | 4739.05   | 59.58         | -9.45          | 50.13       | 54.00    | -3.87  | AV            |
| Horizontal                         | 10480.11  | 63.18         | -0.64          | 62.54       | 68.20    | -5.66  | Pk            |
| Horizontal                         | 10480.11  | 49.50         | -0.64          | 48.86       | 54.00    | -5.14  | AV            |
| Horizontal                         | 15720.08  | 61.44         | 2.33           | 63.77       | 74.00    | -10.23 | Pk            |
| Horizontal                         | 15720.08  | 49.76         | 2.33           | 52.09       | 54.00    | -1.91  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT40 |
|------------|--------------------------|

| Polar                              | Frequency | Reading Level | Correct Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|---------------|----------------|-------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV/m)      | (dB)           | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5190 MHz)-Above 1G    |           |               |                |             |          |        |               |
| Vertical                           | 4434.08   | 70.16         | -10.52         | 59.64       | 68.20    | -8.56  | Pk            |
| Vertical                           | 4434.08   | 59.21         | -10.52         | 48.69       | 54.00    | -5.31  | AV            |
| Vertical                           | 10380.02  | 62.73         | -0.70          | 62.03       | 68.20    | -6.17  | Pk            |
| Vertical                           | 10380.02  | 49.63         | -0.70          | 48.93       | 54.00    | -5.07  | AV            |
| Vertical                           | 15570.05  | 61.11         | 2.39           | 63.50       | 74.00    | -10.50 | Pk            |
| Vertical                           | 15570.05  | 49.25         | 2.39           | 51.64       | 54.00    | -2.36  | AV            |
| Horizontal                         | 4434.09   | 72.27         | -10.52         | 61.75       | 74.00    | -12.25 | Pk            |
| Horizontal                         | 4434.09   | 59.77         | -10.52         | 49.25       | 54.00    | -4.75  | AV            |
| Horizontal                         | 10380.15  | 63.83         | -0.70          | 63.13       | 68.20    | -5.07  | Pk            |
| Horizontal                         | 10380.15  | 49.13         | -0.70          | 48.43       | 54.00    | -5.57  | AV            |
| Horizontal                         | 15570.02  | 61.41         | 2.39           | 63.80       | 74.00    | -10.20 | Pk            |
| Horizontal                         | 15570.02  | 49.34         | 2.39           | 51.73       | 54.00    | -2.27  | AV            |
| middle Channel (5230 MHz)-Above 1G |           |               |                |             |          |        |               |
| Vertical                           | 4739.06   | 74.60         | -9.45          | 65.15       | 68.20    | -3.05  | Pk            |
| Vertical                           | 4739.06   | 59.71         | -9.45          | 50.26       | 54.00    | -3.74  | AV            |
| Vertical                           | 10460.16  | 61.77         | -0.65          | 61.12       | 68.20    | -7.08  | Pk            |
| Vertical                           | 10460.16  | 49.35         | -0.65          | 48.70       | 54.00    | -5.30  | AV            |
| Vertical                           | 15690.09  | 64.04         | 2.33           | 66.37       | 74.00    | -7.63  | Pk            |
| Vertical                           | 15690.09  | 49.67         | 2.33           | 52.00       | 54.00    | -2.00  | AV            |
| Horizontal                         | 4739.11   | 73.18         | -9.45          | 63.73       | 68.20    | -4.47  | Pk            |
| Horizontal                         | 4739.11   | 59.11         | -9.45          | 49.66       | 54.00    | -4.34  | AV            |
| Horizontal                         | 10460.17  | 64.38         | -0.65          | 63.73       | 68.20    | -4.47  | Pk            |
| Horizontal                         | 10460.17  | 49.32         | -0.65          | 48.67       | 54.00    | -5.33  | AV            |
| Horizontal                         | 15690.20  | 64.35         | 2.33           | 66.68       | 74.00    | -7.32  | Pk            |
| Horizontal                         | 15690.20  | 49.51         | 2.33           | 51.84       | 54.00    | -2.16  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor – Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over  | Detector Type |
|---------------------|-----------|------------------|-------------------|-------------|----------|-------|---------------|
|                     | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)  |               |
| (5775 MHz)-Above 1G |           |                  |                   |             |          |       |               |
| V                   | 4434.09   | 71.50            | -10.51            | 60.99       | 68.20    | -7.21 | PK            |
| V                   | 4434.09   | 59.09            | -10.51            | 48.58       | 54.00    | -5.42 | AV            |
| V                   | 10420.11  | 63.75            | -0.66             | 63.09       | 68.20    | -5.11 | PK            |
| V                   | 10420.11  | 49.03            | -0.66             | 48.37       | 54.00    | -5.63 | AV            |
| V                   | 15630.02  | 63.35            | 2.55              | 65.90       | 74.00    | -8.10 | PK            |
| V                   | 15630.02  | 49.60            | 2.55              | 52.15       | 54.00    | -1.85 | AV            |
| H                   | 4434.08   | 72.39            | -10.51            | 61.88       | 68.20    | -6.32 | PK            |
| H                   | 4434.08   | 59.38            | -10.51            | 48.87       | 54.00    | -5.13 | AV            |
| H                   | 10420.12  | 60.06            | -0.66             | 59.40       | 68.20    | -8.80 | PK            |
| H                   | 10420.12  | 49.97            | -0.66             | 49.31       | 54.00    | -4.69 | AV            |
| H                   | 15630.05  | 64.37            | 2.55              | 66.92       | 74.00    | -7.08 | PK            |
| H                   | 15630.05  | 49.27            | 2.55              | 51.82       | 54.00    | -2.18 | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ax-HT20 |
|------------|--------------------------|

| Polar                              | Frequency | Reading Level | Correct Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|---------------|----------------|-------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV/m)      | (dB)           | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5180 MHz)-Above 1G    |           |               |                |             |          |        |               |
| Vertical                           | 4434.01   | 70.39         | -10.51         | 59.88       | 68.20    | -8.32  | Pk            |
| Vertical                           | 4434.01   | 59.44         | -10.51         | 48.93       | 54.00    | -5.07  | AV            |
| Vertical                           | 10360.07  | 63.53         | -0.72          | 62.81       | 68.20    | -5.39  | Pk            |
| Vertical                           | 10360.07  | 49.73         | -0.72          | 49.01       | 54.00    | -4.99  | AV            |
| Vertical                           | 15540.13  | 61.44         | 2.59           | 64.03       | 74.00    | -9.97  | Pk            |
| Vertical                           | 15540.13  | 49.82         | 2.59           | 52.41       | 54.00    | -1.59  | AV            |
| Horizontal                         | 4434.16   | 73.79         | -10.51         | 63.28       | 68.20    | -4.92  | Pk            |
| Horizontal                         | 4434.16   | 59.70         | -10.51         | 49.19       | 54.00    | -4.81  | AV            |
| Horizontal                         | 10360.03  | 64.56         | -0.72          | 63.84       | 68.20    | -4.36  | Pk            |
| Horizontal                         | 10360.03  | 49.08         | -0.72          | 48.36       | 54.00    | -5.64  | AV            |
| Horizontal                         | 15540.06  | 64.00         | 2.59           | 66.59       | 74.00    | -7.41  | Pk            |
| Horizontal                         | 15540.06  | 49.05         | 2.59           | 51.64       | 54.00    | -2.36  | AV            |
| middle Channel (5200 MHz)-Above 1G |           |               |                |             |          |        |               |
| Vertical                           | 4592.15   | 72.91         | -10.20         | 62.71       | 74.00    | -11.29 | Pk            |
| Vertical                           | 4592.15   | 59.67         | -10.20         | 49.47       | 54.00    | -4.53  | AV            |
| Vertical                           | 10400.02  | 60.82         | -0.67          | 60.15       | 68.20    | -8.05  | Pk            |
| Vertical                           | 10400.02  | 49.81         | -0.67          | 49.14       | 54.00    | -4.86  | AV            |
| Vertical                           | 15600.05  | 63.61         | 2.67           | 66.28       | 74.00    | -7.72  | Pk            |
| Vertical                           | 15600.05  | 49.54         | 2.67           | 52.21       | 54.00    | -1.79  | AV            |
| Horizontal                         | 4592.09   | 71.88         | -10.20         | 61.68       | 74.00    | -12.32 | Pk            |
| Horizontal                         | 4592.09   | 59.31         | -10.20         | 49.11       | 54.00    | -4.89  | AV            |
| Horizontal                         | 10400.15  | 60.54         | -0.67          | 59.87       | 68.20    | -8.33  | Pk            |
| Horizontal                         | 10400.15  | 49.11         | -0.67          | 48.44       | 54.00    | -5.56  | AV            |
| Horizontal                         | 15600.06  | 62.44         | 2.67           | 65.11       | 74.00    | -8.89  | Pk            |
| Horizontal                         | 15600.06  | 49.03         | 2.67           | 51.70       | 54.00    | -2.30  | AV            |
| High Channel (5240 MHz)-Above 1G   |           |               |                |             |          |        |               |
| Vertical                           | 4739.14   | 70.92         | -9.45          | 61.47       | 74.00    | -12.53 | Pk            |
| Vertical                           | 4739.14   | 59.51         | -9.45          | 50.06       | 54.00    | -3.94  | AV            |
| Vertical                           | 10480.18  | 60.05         | -0.64          | 59.41       | 68.20    | -8.79  | Pk            |
| Vertical                           | 10480.18  | 49.15         | -0.64          | 48.51       | 54.00    | -5.49  | AV            |
| Vertical                           | 15720.12  | 60.59         | 2.33           | 62.92       | 74.00    | -11.08 | Pk            |
| Vertical                           | 15720.12  | 49.81         | 2.33           | 52.14       | 54.00    | -1.86  | AV            |
| Horizontal                         | 4739.00   | 74.64         | -9.45          | 65.19       | 74.00    | -8.81  | Pk            |
| Horizontal                         | 4739.00   | 59.68         | -9.45          | 50.23       | 54.00    | -3.77  | AV            |
| Horizontal                         | 10480.07  | 61.97         | -0.64          | 61.33       | 68.20    | -6.87  | Pk            |
| Horizontal                         | 10480.07  | 49.91         | -0.64          | 49.27       | 54.00    | -4.73  | AV            |
| Horizontal                         | 15720.08  | 61.17         | 2.33           | 63.50       | 74.00    | -10.50 | Pk            |
| Horizontal                         | 15720.08  | 49.19         | 2.33           | 51.52       | 54.00    | -2.48  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ax-HT40 |
|------------|--------------------------|

| Polar                              | Frequency | Reading Level | Correct Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|---------------|----------------|-------------|----------|--------|---------------|
| (H/V)                              | (MHz)     | (dBuV/m)      | (dB)           | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5190 MHz)-Above 1G    |           |               |                |             |          |        |               |
| Vertical                           | 4434.04   | 70.39         | -10.52         | 59.87       | 68.20    | -8.33  | Pk            |
| Vertical                           | 4434.04   | 59.50         | -10.52         | 48.98       | 54.00    | -5.02  | AV            |
| Vertical                           | 10380.18  | 60.14         | -0.70          | 59.44       | 68.20    | -8.76  | Pk            |
| Vertical                           | 10380.18  | 49.05         | -0.70          | 48.35       | 54.00    | -5.65  | AV            |
| Vertical                           | 15570.03  | 61.13         | 2.39           | 63.52       | 74.00    | -10.48 | Pk            |
| Vertical                           | 15570.03  | 49.01         | 2.39           | 51.40       | 54.00    | -2.60  | AV            |
| Horizontal                         | 4434.06   | 71.17         | -10.52         | 60.65       | 74.00    | -13.35 | Pk            |
| Horizontal                         | 4434.06   | 59.16         | -10.52         | 48.64       | 54.00    | -5.36  | AV            |
| Horizontal                         | 10380.08  | 61.52         | -0.70          | 60.82       | 68.20    | -7.38  | Pk            |
| Horizontal                         | 10380.08  | 49.09         | -0.70          | 48.39       | 54.00    | -5.61  | AV            |
| Horizontal                         | 15570.04  | 62.45         | 2.39           | 64.84       | 74.00    | -9.16  | Pk            |
| Horizontal                         | 15570.04  | 49.66         | 2.39           | 52.05       | 54.00    | -1.95  | AV            |
| middle Channel (5230 MHz)-Above 1G |           |               |                |             |          |        |               |
| Vertical                           | 4739.11   | 72.40         | -9.45          | 62.95       | 68.20    | -5.25  | Pk            |
| Vertical                           | 4739.11   | 59.89         | -9.45          | 50.44       | 54.00    | -3.56  | AV            |
| Vertical                           | 10460.02  | 63.85         | -0.65          | 63.20       | 68.20    | -5.00  | Pk            |
| Vertical                           | 10460.02  | 49.96         | -0.65          | 49.31       | 54.00    | -4.69  | AV            |
| Vertical                           | 15690.16  | 64.45         | 2.33           | 66.78       | 74.00    | -7.22  | Pk            |
| Vertical                           | 15690.16  | 49.16         | 2.33           | 51.49       | 54.00    | -2.51  | AV            |
| Horizontal                         | 4739.07   | 74.35         | -9.45          | 64.90       | 68.20    | -3.30  | Pk            |
| Horizontal                         | 4739.07   | 59.64         | -9.45          | 50.19       | 54.00    | -3.81  | AV            |
| Horizontal                         | 10460.20  | 64.29         | -0.65          | 63.64       | 68.20    | -4.56  | Pk            |
| Horizontal                         | 10460.20  | 49.67         | -0.65          | 49.02       | 54.00    | -4.98  | AV            |
| Horizontal                         | 15690.20  | 60.21         | 2.33           | 62.54       | 74.00    | -11.46 | Pk            |
| Horizontal                         | 15690.20  | 49.41         | 2.33           | 51.74       | 54.00    | -2.26  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor – Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.1G) - 802.11ax-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|---------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                     | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| (5775 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                   | 4434.02   | 72.55            | -10.51            | 62.04       | 68.20    | -6.16  | PK            |
| V                   | 4434.02   | 59.51            | -10.51            | 49.00       | 54.00    | -5.00  | AV            |
| V                   | 10420.13  | 60.88            | -0.66             | 60.22       | 68.20    | -7.98  | PK            |
| V                   | 10420.13  | 49.77            | -0.66             | 49.11       | 54.00    | -4.89  | AV            |
| V                   | 15630.03  | 60.50            | 2.55              | 63.05       | 74.00    | -10.95 | PK            |
| V                   | 15630.03  | 49.67            | 2.55              | 52.22       | 54.00    | -1.78  | AV            |
| H                   | 4434.05   | 72.42            | -10.51            | 61.91       | 68.20    | -6.29  | PK            |
| H                   | 4434.05   | 59.90            | -10.51            | 49.39       | 54.00    | -4.61  | AV            |
| H                   | 10420.14  | 62.33            | -0.66             | 61.67       | 68.20    | -6.53  | PK            |
| H                   | 10420.14  | 49.07            | -0.66             | 48.41       | 54.00    | -5.59  | AV            |
| H                   | 15630.19  | 62.67            | 2.55              | 65.22       | 74.00    | -8.78  | PK            |
| H                   | 15630.19  | 49.84            | 2.55              | 52.39       | 54.00    | -1.61  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

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|            |                    |
|------------|--------------------|
| Test Mode: | TX(5.8G) - 802.11a |
|------------|--------------------|

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Reading<br>Level<br>(dBuV/m) | Correct<br>Factor<br>(dB) | Measurement<br>(dBuV/m) | Limits<br>(dBuV/m) | Over<br>(dB) | Detector Type |
|-------------------------------------------|--------------------|------------------------------|---------------------------|-------------------------|--------------------|--------------|---------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                    |                              |                           |                         |                    |              |               |
| V                                         | 4679.035           | 70.75                        | -10.36                    | 60.39                   | 74                 | -13.61       | PK            |
| V                                         | 4679.035           | 59.81                        | -10.36                    | 49.45                   | 54                 | -4.55        | AV            |
| V                                         | 11490.167          | 61.90                        | -0.19                     | 61.71                   | 68.2               | -6.49        | PK            |
| V                                         | 11490.167          | 49.22                        | -0.19                     | 49.03                   | 54                 | -4.97        | AV            |
| V                                         | 17235.001          | 59.39                        | 4.28                      | 63.67                   | 68.2               | -4.53        | PK            |
| V                                         | 17235.001          | 44.93                        | 4.28                      | 49.21                   | 54                 | -4.79        | AV            |
| H                                         | 4679.085           | 72.57                        | -10.36                    | 62.21                   | 74                 | -11.79       | PK            |
| H                                         | 4679.085           | 59.18                        | -10.36                    | 48.82                   | 54                 | -5.18        | AV            |
| H                                         | 11490.114          | 62.72                        | -0.19                     | 62.53                   | 68.2               | -5.67        | PK            |
| H                                         | 11490.114          | 49.19                        | -0.19                     | 49.00                   | 54                 | -5.00        | AV            |
| H                                         | 17235.097          | 58.91                        | 4.28                      | 63.19                   | 68.2               | -5.01        | PK            |
| H                                         | 17235.097          | 44.19                        | 4.28                      | 48.47                   | 54                 | -5.53        | AV            |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                    |                              |                           |                         |                    |              |               |
| V                                         | 4592.040           | 71.96                        | -10.20                    | 61.76                   | 74                 | -12.24       | PK            |
| V                                         | 4592.040           | 59.21                        | -10.20                    | 49.01                   | 54                 | -4.99        | AV            |
| V                                         | 11570.099          | 64.71                        | -0.21                     | 64.50                   | 68.2               | -3.70        | PK            |
| V                                         | 11570.099          | 49.72                        | -0.21                     | 49.51                   | 54                 | -4.49        | AV            |
| V                                         | 17355.044          | 55.91                        | 4.68                      | 60.59                   | 68.2               | -7.61        | PK            |
| V                                         | 17355.044          | 44.79                        | 4.68                      | 49.47                   | 54                 | -4.53        | AV            |
| H                                         | 4592.186           | 71.10                        | -10.20                    | 60.90                   | 74                 | -13.10       | PK            |
| H                                         | 4592.186           | 59.86                        | -10.20                    | 49.66                   | 54                 | -4.34        | AV            |
| H                                         | 11570.194          | 64.50                        | -0.21                     | 64.29                   | 68.2               | -3.91        | PK            |
| H                                         | 11570.194          | 49.66                        | -0.21                     | 49.45                   | 54                 | -4.55        | AV            |
| H                                         | 17355.172          | 56.88                        | 4.68                      | 61.56                   | 68.2               | -6.64        | PK            |
| H                                         | 17355.172          | 44.61                        | 4.68                      | 49.29                   | 54                 | -4.71        | AV            |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                    |                              |                           |                         |                    |              |               |
| V                                         | 6039.002           | 72.54                        | -7.08                     | 65.46                   | 68.2               | -2.74        | PK            |
| V                                         | 6039.002           | 59.31                        | -7.08                     | 52.23                   | 54                 | -1.77        | AV            |
| V                                         | 11650.023          | 60.04                        | -0.50                     | 59.54                   | 74                 | -14.46       | PK            |
| V                                         | 11650.023          | 49.27                        | -0.50                     | 48.77                   | 54                 | -5.23        | AV            |
| V                                         | 17475.189          | 57.90                        | 4.77                      | 62.67                   | 68.2               | -5.53        | PK            |
| V                                         | 17475.189          | 44.46                        | 4.77                      | 49.23                   | 54                 | -4.77        | AV            |
| H                                         | 6039.007           | 73.99                        | -7.08                     | 66.91                   | 68.2               | -1.29        | PK            |
| H                                         | 6039.007           | 59.11                        | -7.08                     | 52.03                   | 54                 | -1.97        | AV            |
| H                                         | 11650.160          | 62.57                        | -0.50                     | 62.07                   | 74                 | -11.93       | PK            |
| H                                         | 11650.160          | 49.51                        | -0.50                     | 49.01                   | 54                 | -4.99        | AV            |
| H                                         | 17475.110          | 56.02                        | 4.77                      | 60.79                   | 68.2               | -7.41        | PK            |
| H                                         | 17475.110          | 44.68                        | 4.77                      | 49.45                   | 54                 | -4.55        | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

Test Mode: TX(5.8G) - 802.11n-HT20

| Polar<br>(H/V)                            | Frequency<br>(MHz) | Reading<br>Level<br>(dBuV/m) | Correct<br>Factor<br>(dB) | Measurement<br>(dBuV/m) | Limits<br>(dBuV/m) | Over<br>(dB) | Detector Type |
|-------------------------------------------|--------------------|------------------------------|---------------------------|-------------------------|--------------------|--------------|---------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                    |                              |                           |                         |                    |              |               |
| V                                         | 4679.125           | 70.66                        | -10.36                    | 60.30                   | 74                 | -13.70       | PK            |
| V                                         | 4679.125           | 59.67                        | -10.36                    | 49.31                   | 54                 | -4.69        | AV            |
| V                                         | 11490.060          | 60.93                        | -0.19                     | 60.74                   | 68.2               | -7.46        | PK            |
| V                                         | 11490.060          | 49.24                        | -0.19                     | 49.05                   | 54                 | -4.95        | AV            |
| V                                         | 17235.019          | 57.64                        | 4.28                      | 61.92                   | 68.2               | -6.28        | PK            |
| V                                         | 17235.019          | 44.24                        | 4.28                      | 48.52                   | 54                 | -5.48        | AV            |
| H                                         | 4679.044           | 73.02                        | -10.36                    | 62.66                   | 74                 | -11.34       | PK            |
| H                                         | 4679.044           | 59.05                        | -10.36                    | 48.69                   | 54                 | -5.31        | AV            |
| H                                         | 11490.131          | 62.59                        | -0.19                     | 62.40                   | 68.2               | -5.80        | PK            |
| H                                         | 11490.131          | 50.00                        | -0.19                     | 49.81                   | 54                 | -4.19        | AV            |
| H                                         | 17235.147          | 59.85                        | 4.28                      | 64.13                   | 68.2               | -4.07        | PK            |
| H                                         | 17235.147          | 44.84                        | 4.28                      | 49.12                   | 54                 | -4.88        | AV            |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                    |                              |                           |                         |                    |              |               |
| V                                         | 4592.097           | 70.82                        | -10.20                    | 60.62                   | 74                 | -13.38       | PK            |
| V                                         | 4592.097           | 59.35                        | -10.20                    | 49.15                   | 54                 | -4.85        | AV            |
| V                                         | 11570.154          | 62.40                        | -0.21                     | 62.19                   | 68.2               | -6.01        | PK            |
| V                                         | 11570.154          | 49.83                        | -0.21                     | 49.62                   | 54                 | -4.38        | AV            |
| V                                         | 17355.059          | 55.70                        | 4.68                      | 60.38                   | 68.2               | -7.82        | PK            |
| V                                         | 17355.059          | 44.83                        | 4.68                      | 49.51                   | 54                 | -4.49        | AV            |
| H                                         | 4592.032           | 74.73                        | -10.20                    | 64.53                   | 74                 | -9.47        | PK            |
| H                                         | 4592.032           | 59.59                        | -10.20                    | 49.39                   | 54                 | -4.61        | AV            |
| H                                         | 11570.061          | 62.94                        | -0.21                     | 62.73                   | 68.2               | -5.47        | PK            |
| H                                         | 11570.061          | 49.11                        | -0.21                     | 48.90                   | 54                 | -5.10        | AV            |
| H                                         | 17355.019          | 57.75                        | 4.68                      | 62.43                   | 68.2               | -5.77        | PK            |
| H                                         | 17355.019          | 44.22                        | 4.68                      | 48.90                   | 54                 | -5.10        | AV            |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                    |                              |                           |                         |                    |              |               |
| V                                         | 6039.042           | 70.37                        | -7.08                     | 63.29                   | 68.2               | -4.91        | PK            |
| V                                         | 6039.042           | 59.35                        | -7.08                     | 52.27                   | 54                 | -1.73        | AV            |
| V                                         | 11650.111          | 62.45                        | -0.50                     | 61.95                   | 74                 | -12.05       | PK            |
| V                                         | 11650.111          | 49.92                        | -0.50                     | 49.42                   | 54                 | -4.58        | AV            |
| V                                         | 17475.086          | 55.13                        | 4.77                      | 59.90                   | 68.2               | -8.30        | PK            |
| V                                         | 17475.086          | 44.50                        | 4.77                      | 49.27                   | 54                 | -4.73        | AV            |
| H                                         | 6039.075           | 72.31                        | -7.08                     | 65.23                   | 68.2               | -2.97        | PK            |
| H                                         | 6039.075           | 59.59                        | -7.08                     | 52.51                   | 54                 | -1.49        | AV            |
| H                                         | 11650.121          | 63.46                        | -0.50                     | 62.96                   | 74                 | -11.04       | PK            |
| H                                         | 11650.121          | 49.76                        | -0.50                     | 49.26                   | 54                 | -4.74        | AV            |
| H                                         | 17475.057          | 58.19                        | 4.77                      | 62.96                   | 68.2               | -5.24        | PK            |
| H                                         | 17475.057          | 44.21                        | 4.77                      | 48.98                   | 54                 | -5.02        | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                         |
|------------|-------------------------|
| Test Mode: | TX(5.8G) - 802.11n-HT40 |
|------------|-------------------------|

| Polar<br>(H/V)                   | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|----------------------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                                  | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5755 MHz)-Above 1G  |           |                  |                   |             |          |        |               |
| V                                | 4679.030  | 72.21            | -10.36            | 61.85       | 74       | -12.15 | PK            |
| V                                | 4679.030  | 59.60            | -10.36            | 49.24       | 54       | -4.76  | AV            |
| V                                | 11510.018 | 61.96            | -0.26             | 61.70       | 74       | -12.30 | PK            |
| V                                | 11510.018 | 49.98            | -0.26             | 49.72       | 54       | -4.28  | AV            |
| V                                | 17265.067 | 57.95            | 4.35              | 62.30       | 68.2     | -5.90  | PK            |
| V                                | 17265.067 | 44.95            | 4.35              | 49.30       | 54       | -4.70  | AV            |
| H                                | 4679.185  | 70.39            | -10.36            | 60.03       | 74       | -13.97 | PK            |
| H                                | 4679.185  | 59.40            | -10.36            | 49.04       | 54       | -4.96  | AV            |
| H                                | 11510.067 | 60.69            | -0.26             | 60.43       | 74       | -13.57 | PK            |
| H                                | 11510.067 | 49.51            | -0.26             | 49.25       | 54       | -4.75  | AV            |
| H                                | 17265.023 | 59.18            | 4.35              | 63.53       | 68.2     | -4.67  | PK            |
| H                                | 17265.023 | 44.91            | 4.35              | 49.26       | 54       | -4.74  | AV            |
| High Channel (5795 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                                | 6039.101  | 70.67            | -7.08             | 63.59       | 68.2     | -4.61  | PK            |
| V                                | 6039.101  | 59.60            | -7.08             | 52.52       | 54       | -1.48  | AV            |
| V                                | 11590.169 | 60.52            | -0.20             | 60.32       | 74       | -13.68 | PK            |
| V                                | 11590.169 | 49.85            | -0.20             | 49.65       | 54       | -4.35  | AV            |
| V                                | 17385.084 | 56.43            | 4.81              | 61.24       | 68.2     | -6.96  | PK            |
| V                                | 17385.084 | 44.37            | 4.81              | 49.18       | 54       | -4.82  | AV            |
| H                                | 6039.046  | 72.19            | -7.08             | 65.11       | 68.2     | -3.09  | PK            |
| H                                | 6039.046  | 59.02            | -7.08             | 51.94       | 54       | -2.06  | AV            |
| H                                | 11590.189 | 63.56            | -0.20             | 63.36       | 74       | -10.64 | PK            |
| H                                | 11590.189 | 49.88            | -0.20             | 49.68       | 54       | -4.32  | AV            |
| H                                | 17385.028 | 55.60            | 4.81              | 60.41       | 68.2     | -7.79  | PK            |
| H                                | 17385.028 | 44.38            | 4.81              | 49.19       | 54       | -4.81  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT20 |
|------------|--------------------------|

| Polar<br>(H/V)                     | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|------------------------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                                    | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5745 MHz)-Above 1G    |           |                  |                   |             |          |        |               |
| V                                  | 4679.168  | 70.95            | -10.36            | 60.59       | 74       | -13.41 | PK            |
| V                                  | 4679.168  | 59.40            | -10.36            | 49.04       | 54       | -4.96  | AV            |
| V                                  | 11490.014 | 61.56            | -0.19             | 61.37       | 68.2     | -6.83  | PK            |
| V                                  | 11490.014 | 49.46            | -0.19             | 49.27       | 54       | -4.73  | AV            |
| V                                  | 17235.020 | 56.15            | 4.28              | 60.43       | 68.2     | -7.77  | PK            |
| V                                  | 17235.020 | 44.39            | 4.28              | 48.67       | 54       | -5.33  | AV            |
| H                                  | 4679.072  | 72.94            | -10.36            | 62.58       | 74       | -11.42 | PK            |
| H                                  | 4679.072  | 60.00            | -10.36            | 49.64       | 54       | -4.36  | AV            |
| H                                  | 11490.065 | 60.44            | -0.19             | 60.25       | 68.2     | -7.95  | PK            |
| H                                  | 11490.065 | 49.61            | -0.19             | 49.42       | 54       | -4.58  | AV            |
| H                                  | 17235.173 | 58.87            | 4.28              | 63.15       | 68.2     | -5.05  | PK            |
| H                                  | 17235.173 | 44.19            | 4.28              | 48.47       | 54       | -5.53  | AV            |
| Middle Channel (5785 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                                  | 4592.173  | 72.30            | -10.20            | 62.10       | 74       | -11.90 | PK            |
| V                                  | 4592.173  | 59.69            | -10.20            | 49.49       | 54       | -4.51  | AV            |
| V                                  | 11570.035 | 63.34            | -0.21             | 63.13       | 68.2     | -5.07  | PK            |
| V                                  | 11570.035 | 49.17            | -0.21             | 48.96       | 54       | -5.04  | AV            |
| V                                  | 17355.101 | 57.16            | 4.68              | 61.84       | 68.2     | -6.36  | PK            |
| V                                  | 17355.101 | 44.54            | 4.68              | 49.22       | 54       | -4.78  | AV            |
| H                                  | 4592.182  | 73.73            | -10.20            | 63.53       | 74       | -10.47 | PK            |
| H                                  | 4592.182  | 59.35            | -10.20            | 49.15       | 54       | -4.85  | AV            |
| H                                  | 11570.039 | 61.88            | -0.21             | 61.67       | 68.2     | -6.53  | PK            |
| H                                  | 11570.039 | 49.28            | -0.21             | 49.07       | 54       | -4.93  | AV            |
| H                                  | 17355.026 | 55.38            | 4.68              | 60.06       | 68.2     | -8.14  | PK            |
| H                                  | 17355.026 | 44.70            | 4.68              | 49.38       | 54       | -4.62  | AV            |
| High Channel (5825 MHz)-Above 1G   |           |                  |                   |             |          |        |               |
| V                                  | 6039.145  | 72.98            | -7.08             | 65.90       | 68.2     | -2.30  | PK            |
| V                                  | 6039.145  | 59.12            | -7.08             | 52.04       | 54       | -1.96  | AV            |
| V                                  | 11650.057 | 62.83            | -0.50             | 62.33       | 74       | -11.67 | PK            |
| V                                  | 11650.057 | 49.09            | -0.50             | 48.59       | 54       | -5.41  | AV            |
| V                                  | 17475.070 | 59.39            | 4.77              | 64.16       | 68.2     | -4.04  | PK            |
| V                                  | 17475.070 | 44.45            | 4.77              | 49.22       | 54       | -4.78  | AV            |
| H                                  | 6039.190  | 73.69            | -7.08             | 66.61       | 68.2     | -1.59  | PK            |
| H                                  | 6039.190  | 59.26            | -7.08             | 52.18       | 54       | -1.82  | AV            |
| H                                  | 11650.027 | 64.76            | -0.50             | 64.26       | 74       | -9.74  | PK            |
| H                                  | 11650.027 | 49.96            | -0.50             | 49.46       | 54       | -4.54  | AV            |
| H                                  | 17475.123 | 56.17            | 4.77              | 60.94       | 68.2     | -7.26  | PK            |
| H                                  | 17475.123 | 44.27            | 4.77              | 49.04       | 54       | -4.96  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor = Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT40 |
|------------|--------------------------|

| Polar<br>(H/V)                   | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|----------------------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                                  | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5755 MHz)-Above 1G  |           |                  |                   |             |          |        |               |
| V                                | 4679.004  | 73.43            | -10.36            | 63.07       | 74       | -10.93 | PK            |
| V                                | 4679.004  | 59.66            | -10.36            | 49.30       | 54       | -4.70  | AV            |
| V                                | 11510.183 | 61.53            | -0.26             | 61.27       | 74       | -12.73 | PK            |
| V                                | 11510.183 | 49.76            | -0.26             | 49.50       | 54       | -4.50  | AV            |
| V                                | 17265.061 | 59.44            | 4.35              | 63.79       | 68.2     | -4.41  | PK            |
| V                                | 17265.061 | 44.17            | 4.35              | 48.52       | 54       | -5.48  | AV            |
| H                                | 4679.017  | 73.09            | -10.36            | 62.73       | 74       | -11.27 | PK            |
| H                                | 4679.017  | 59.50            | -10.36            | 49.14       | 54       | -4.86  | AV            |
| H                                | 11510.053 | 60.88            | -0.26             | 60.62       | 74       | -13.38 | PK            |
| H                                | 11510.053 | 49.80            | -0.26             | 49.54       | 54       | -4.46  | AV            |
| H                                | 17265.173 | 55.96            | 4.35              | 60.31       | 68.2     | -7.89  | PK            |
| H                                | 17265.173 | 44.41            | 4.35              | 48.76       | 54       | -5.24  | AV            |
| High Channel (5795 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                                | 6039.003  | 70.35            | -7.08             | 63.27       | 68.2     | -4.93  | PK            |
| V                                | 6039.003  | 59.94            | -7.08             | 52.86       | 54       | -1.14  | AV            |
| V                                | 11590.192 | 61.86            | -0.20             | 61.66       | 74       | -12.34 | PK            |
| V                                | 11590.192 | 49.95            | -0.20             | 49.75       | 54       | -4.25  | AV            |
| V                                | 17385.126 | 57.85            | 4.81              | 62.66       | 68.2     | -5.54  | PK            |
| V                                | 17385.126 | 44.44            | 4.81              | 49.25       | 54       | -4.75  | AV            |
| H                                | 6039.032  | 71.02            | -7.08             | 63.94       | 68.2     | -4.26  | PK            |
| H                                | 6039.032  | 59.25            | -7.08             | 52.17       | 54       | -1.83  | AV            |
| H                                | 11590.138 | 60.49            | -0.20             | 60.29       | 74       | -13.71 | PK            |
| H                                | 11590.138 | 49.62            | -0.20             | 49.42       | 54       | -4.58  | AV            |
| H                                | 17385.189 | 56.86            | 4.81              | 61.67       | 68.2     | -6.53  | PK            |
| H                                | 17385.189 | 44.77            | 4.81              | 49.58       | 54       | -4.42  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ac-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|---------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                     | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| (5775 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                   | 4679.059  | 71.19            | -10.36            | 60.83       | 74       | -13.17 | PK            |
| V                   | 4679.059  | 59.12            | -10.36            | 48.76       | 54       | -5.24  | AV            |
| V                   | 11550.023 | 63.43            | 0.23              | 63.66       | 74       | -10.34 | PK            |
| V                   | 11550.023 | 49.39            | 0.23              | 49.62       | 54       | -4.38  | AV            |
| V                   | 17325.087 | 55.41            | 4.55              | 59.96       | 68.2     | -8.24  | PK            |
| V                   | 17325.087 | 44.79            | 4.55              | 49.34       | 54       | -4.66  | AV            |
| H                   | 4679.181  | 72.85            | -10.36            | 62.49       | 74       | -11.51 | PK            |
| H                   | 4679.181  | 59.64            | -10.36            | 49.28       | 54       | -4.72  | AV            |
| H                   | 11550.065 | 61.21            | 0.23              | 61.44       | 74       | -12.56 | PK            |
| H                   | 11550.065 | 49.63            | 0.23              | 49.86       | 54       | -4.14  | AV            |
| H                   | 17325.114 | 56.21            | 4.55              | 60.76       | 68.2     | -7.44  | PK            |
| H                   | 17325.114 | 44.58            | 4.55              | 49.13       | 54       | -4.87  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ax-HT20 |
|------------|--------------------------|

| Polar (H/V)                               | Frequency (MHz) | Reading Level (dBuV/m) | Correct Factor (dB) | Measurement (dBuV/m) | Limits (dBuV/m) | Over (dB) | Detector Type |
|-------------------------------------------|-----------------|------------------------|---------------------|----------------------|-----------------|-----------|---------------|
| <b>Low Channel (5745 MHz)-Above 1G</b>    |                 |                        |                     |                      |                 |           |               |
| V                                         | 4679.136        | 74.58                  | -10.36              | 64.22                | 74              | -9.78     | PK            |
| V                                         | 4679.136        | 59.20                  | -10.36              | 48.84                | 54              | -5.16     | AV            |
| V                                         | 11490.177       | 63.97                  | -0.19               | 63.78                | 68.2            | -4.42     | PK            |
| V                                         | 11490.177       | 49.66                  | -0.19               | 49.47                | 54              | -4.53     | AV            |
| V                                         | 17235.129       | 55.74                  | 4.28                | 60.02                | 68.2            | -8.18     | PK            |
| V                                         | 17235.129       | 44.30                  | 4.28                | 48.58                | 54              | -5.42     | AV            |
| H                                         | 4679.152        | 70.73                  | -10.36              | 60.37                | 74              | -13.63    | PK            |
| H                                         | 4679.152        | 59.30                  | -10.36              | 48.94                | 54              | -5.06     | AV            |
| H                                         | 11490.032       | 64.19                  | -0.19               | 64.00                | 68.2            | -4.20     | PK            |
| H                                         | 11490.032       | 49.69                  | -0.19               | 49.50                | 54              | -4.50     | AV            |
| H                                         | 17235.017       | 57.94                  | 4.28                | 62.22                | 68.2            | -5.98     | PK            |
| H                                         | 17235.017       | 44.11                  | 4.28                | 48.39                | 54              | -5.61     | AV            |
| <b>Middle Channel (5785 MHz)-Above 1G</b> |                 |                        |                     |                      |                 |           |               |
| V                                         | 4592.167        | 72.61                  | -10.20              | 62.41                | 74              | -11.59    | PK            |
| V                                         | 4592.167        | 59.77                  | -10.20              | 49.57                | 54              | -4.43     | AV            |
| V                                         | 11570.121       | 64.24                  | -0.21               | 64.03                | 68.2            | -4.17     | PK            |
| V                                         | 11570.121       | 49.51                  | -0.21               | 49.30                | 54              | -4.70     | AV            |
| V                                         | 17355.114       | 56.86                  | 4.68                | 61.54                | 68.2            | -6.66     | PK            |
| V                                         | 17355.114       | 44.18                  | 4.68                | 48.86                | 54              | -5.14     | AV            |
| H                                         | 4592.014        | 70.81                  | -10.20              | 60.61                | 74              | -13.39    | PK            |
| H                                         | 4592.014        | 59.24                  | -10.20              | 49.04                | 54              | -4.96     | AV            |
| H                                         | 11570.072       | 64.42                  | -0.21               | 64.21                | 68.2            | -3.99     | PK            |
| H                                         | 11570.072       | 49.79                  | -0.21               | 49.58                | 54              | -4.42     | AV            |
| H                                         | 17355.030       | 56.95                  | 4.68                | 61.63                | 68.2            | -6.57     | PK            |
| H                                         | 17355.030       | 44.23                  | 4.68                | 48.91                | 54              | -5.09     | AV            |
| <b>High Channel (5825 MHz)-Above 1G</b>   |                 |                        |                     |                      |                 |           |               |
| V                                         | 6039.046        | 72.89                  | -7.08               | 65.81                | 68.2            | -2.39     | PK            |
| V                                         | 6039.046        | 59.31                  | -7.08               | 52.23                | 54              | -1.77     | AV            |
| V                                         | 11650.135       | 64.46                  | -0.50               | 63.96                | 74              | -10.04    | PK            |
| V                                         | 11650.135       | 49.88                  | -0.50               | 49.38                | 54              | -4.62     | AV            |
| V                                         | 17475.040       | 59.00                  | 4.77                | 63.77                | 68.2            | -4.43     | PK            |
| V                                         | 17475.040       | 44.89                  | 4.77                | 49.66                | 54              | -4.34     | AV            |
| H                                         | 6039.022        | 71.01                  | -7.08               | 63.93                | 68.2            | -4.27     | PK            |
| H                                         | 6039.022        | 59.15                  | -7.08               | 52.07                | 54              | -1.93     | AV            |
| H                                         | 11650.085       | 60.49                  | -0.50               | 59.99                | 74              | -14.01    | PK            |
| H                                         | 11650.085       | 49.79                  | -0.50               | 49.29                | 54              | -4.71     | AV            |
| H                                         | 17475.016       | 58.66                  | 4.77                | 63.43                | 68.2            | -4.77     | PK            |
| H                                         | 17475.016       | 44.09                  | 4.77                | 48.86                | 54              | -5.14     | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ax-HT40 |
|------------|--------------------------|

| Polar<br>(H/V)                   | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|----------------------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                                  | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| Low Channel (5755 MHz)-Above 1G  |           |                  |                   |             |          |        |               |
| V                                | 4679.194  | 73.14            | -10.36            | 62.78       | 74       | -11.22 | PK            |
| V                                | 4679.194  | 59.89            | -10.36            | 49.53       | 54       | -4.47  | AV            |
| V                                | 11510.021 | 63.64            | -0.26             | 63.38       | 74       | -10.62 | PK            |
| V                                | 11510.021 | 49.06            | -0.26             | 48.80       | 54       | -5.20  | AV            |
| V                                | 17265.086 | 57.58            | 4.35              | 61.93       | 68.2     | -6.27  | PK            |
| V                                | 17265.086 | 44.75            | 4.35              | 49.10       | 54       | -4.90  | AV            |
| H                                | 4679.166  | 73.48            | -10.36            | 63.12       | 74       | -10.88 | PK            |
| H                                | 4679.166  | 59.58            | -10.36            | 49.22       | 54       | -4.78  | AV            |
| H                                | 11510.191 | 62.92            | -0.26             | 62.66       | 74       | -11.34 | PK            |
| H                                | 11510.191 | 49.83            | -0.26             | 49.57       | 54       | -4.43  | AV            |
| H                                | 17265.161 | 58.27            | 4.35              | 62.62       | 68.2     | -5.58  | PK            |
| H                                | 17265.161 | 44.90            | 4.35              | 49.25       | 54       | -4.75  | AV            |
| High Channel (5795 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                                | 6039.010  | 71.38            | -7.08             | 64.30       | 68.2     | -3.90  | PK            |
| V                                | 6039.010  | 59.67            | -7.08             | 52.59       | 54       | -1.41  | AV            |
| V                                | 11590.071 | 63.90            | -0.20             | 63.70       | 74       | -10.30 | PK            |
| V                                | 11590.071 | 49.28            | -0.20             | 49.08       | 54       | -4.92  | AV            |
| V                                | 17385.011 | 58.08            | 4.81              | 62.89       | 68.2     | -5.31  | PK            |
| V                                | 17385.011 | 44.60            | 4.81              | 49.41       | 54       | -4.59  | AV            |
| H                                | 6039.125  | 71.86            | -7.08             | 64.78       | 68.2     | -3.42  | PK            |
| H                                | 6039.125  | 59.22            | -7.08             | 52.14       | 54       | -1.86  | AV            |
| H                                | 11590.094 | 61.16            | -0.20             | 60.96       | 74       | -13.04 | PK            |
| H                                | 11590.094 | 49.97            | -0.20             | 49.77       | 54       | -4.23  | AV            |
| H                                | 17385.176 | 55.43            | 4.81              | 60.24       | 68.2     | -7.96  | PK            |
| H                                | 17385.176 | 44.42            | 4.81              | 49.23       | 54       | -4.77  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor =Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

|            |                          |
|------------|--------------------------|
| Test Mode: | TX(5.8G) - 802.11ax-HT80 |
|------------|--------------------------|

| Polar<br>(H/V)      | Frequency | Reading<br>Level | Correct<br>Factor | Measurement | Limits   | Over   | Detector Type |
|---------------------|-----------|------------------|-------------------|-------------|----------|--------|---------------|
|                     | (MHz)     | (dBuV/m)         | (dB)              | (dBuV/m)    | (dBuV/m) | (dB)   |               |
| (5775 MHz)-Above 1G |           |                  |                   |             |          |        |               |
| V                   | 4679.170  | 73.14            | -10.36            | 62.78       | 74       | -11.22 | PK            |
| V                   | 4679.170  | 59.68            | -10.36            | 49.32       | 54       | -4.68  | AV            |
| V                   | 11550.095 | 61.43            | 0.23              | 61.66       | 74       | -12.34 | PK            |
| V                   | 11550.095 | 49.56            | 0.23              | 49.79       | 54       | -4.21  | AV            |
| V                   | 17325.116 | 58.44            | 4.55              | 62.99       | 68.2     | -5.21  | PK            |
| V                   | 17325.116 | 44.13            | 4.55              | 48.68       | 54       | -5.32  | AV            |
| H                   | 4679.042  | 71.54            | -10.36            | 61.18       | 74       | -12.82 | PK            |
| H                   | 4679.042  | 59.75            | -10.36            | 49.39       | 54       | -4.61  | AV            |
| H                   | 11550.120 | 60.12            | 0.23              | 60.35       | 74       | -13.65 | PK            |
| H                   | 11550.120 | 49.21            | 0.23              | 49.44       | 54       | -4.56  | AV            |
| H                   | 17325.138 | 55.67            | 4.55              | 60.22       | 68.2     | -7.98  | PK            |
| H                   | 17325.138 | 44.81            | 4.55              | 49.36       | 54       | -4.64  | AV            |

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Correct Factor = Antenna Factor + Cable Loss - Preamp Factor

Over = Reading Level + Correct Factor - Limits

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge
- All the modes 802.11a/n has been tested and the worst result 802.11a20 recorded as below:

Test mode: 802.11a20 Frequency(MHz): 5180

| Frequency<br>(MHz) | Polarity | PK(dBuV/m)<br>(VBW=3MHz) | Limit 3m<br>(dBuV/m) | AV(dBuV/m)<br>(VBW=10Hz) | Limit 3m<br>(dBuV/m) |
|--------------------|----------|--------------------------|----------------------|--------------------------|----------------------|
| 5132.50            | H        | 44.72                    | 74                   | 32.68                    | 54                   |
| 5141.01            | V        | 51.28                    | 74                   | 43.90                    | 54                   |

Test mode: 802.11a20 Frequency(MHz): 5240

| Frequency<br>(MHz) | Polarity | PK(dBuV/m)<br>(VBW=3MHz) | Limit 3m<br>(dBuV/m) | AV(dBuV/m)<br>(VBW=10Hz) | Limit 3m<br>(dBuV/m) |
|--------------------|----------|--------------------------|----------------------|--------------------------|----------------------|
| 5354.55            | H        | 46.16                    | 74                   | 37.12                    | 54                   |
| 5352.34            | V        | 43.52                    | 74                   | 30.74                    | 54                   |

**Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

## 8. Power Spectral Density Test

### 8.1 Block Diagram Of Test Setup



### 8.2 Limit

#### For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### For the 5.25-5.35 GHz and 5.47-5.725 GHz bands,

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the

maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **For the band 5.725-5.85 GHz**

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **8.3 Test Procedure**

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5).

For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set  $RBW \geq 1/T$ , where T is defined in section II.B.I.a).
- b) Set  $VBW \geq 3 RBW$ .
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/RBW)$  to the measured result, whereas  $RBW (< 500 \text{ KHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10\log(1\text{MHz}/RBW)$  to the measured result, whereas  $RBW (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since  $RBW=100 \text{ KHz}$  is available on nearly all spectrum analyzers.

### **8.4 EUT Operating Conditions**

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

## 8.5 Test Result

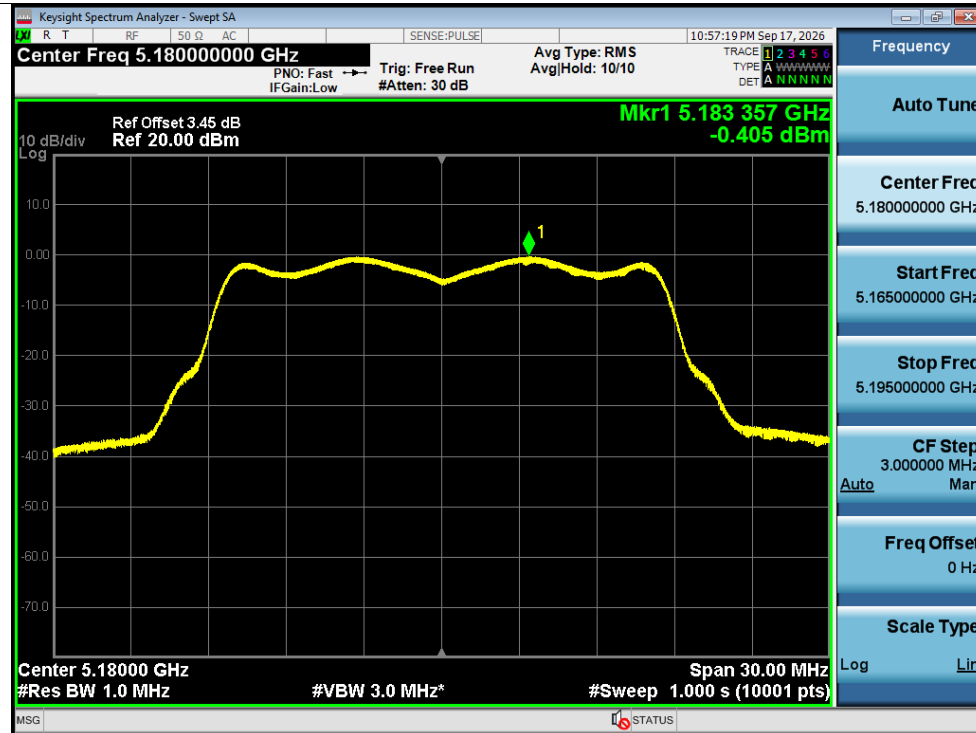
|              |                |                    |        |
|--------------|----------------|--------------------|--------|
| Temperature: | 26 °C          | Relative Humidity: | 54%RH  |
| Pressure:    | 101KPa         | Test Voltage:      | DC 12V |
| Test Mode:   | (5180-5240MHz) |                    |        |

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5180            | -0.41               | 0.3              | -0.11             | 11          | Pass    |
| NVNT      | a    | 5200            | -0.19               | 0.29             | 0.1               | 11          | Pass    |
| NVNT      | a    | 5240            | 0.24                | 0.29             | 0.53              | 11          | Pass    |
| NVNT      | n20  | 5180            | -2.7                | 0.08             | -2.62             | 11          | Pass    |
| NVNT      | n20  | 5200            | -2.49               | 0.08             | -2.41             | 11          | Pass    |
| NVNT      | n20  | 5240            | -1.96               | 0.08             | -1.88             | 11          | Pass    |
| NVNT      | n40  | 5190            | -6.12               | 0.08             | -6.04             | 11          | Pass    |
| NVNT      | n40  | 5230            | -4.07               | 0.09             | -3.98             | 11          | Pass    |
| NVNT      | ac20 | 5180            | -2.63               | 0.08             | -2.55             | 11          | Pass    |
| NVNT      | ac20 | 5200            | -2.42               | 0.08             | -2.34             | 11          | Pass    |
| NVNT      | ac20 | 5240            | -1.97               | 0.08             | -1.89             | 11          | Pass    |
| NVNT      | ac40 | 5190            | -6.07               | 0.09             | -5.98             | 11          | Pass    |
| NVNT      | ac40 | 5230            | -5.89               | 0.09             | -5.8              | 11          | Pass    |
| NVNT      | ac80 | 5210            | -10.7               | 0.08             | -10.62            | 11          | Pass    |
| NVNT      | ax20 | 5180            | -1.75               | 0.11             | -1.64             | 11          | Pass    |
| NVNT      | ax20 | 5200            | -1.97               | 0.11             | -1.86             | 11          | Pass    |
| NVNT      | ax20 | 5240            | -1.22               | 0.11             | -1.11             | 11          | Pass    |
| NVNT      | ax40 | 5190            | -6.26               | 0.11             | -6.15             | 11          | Pass    |
| NVNT      | ax40 | 5230            | -5.86               | 0.11             | -5.75             | 11          | Pass    |
| NVNT      | ax80 | 5210            | -10.83              | 0.1              | -10.73            | 11          | Pass    |



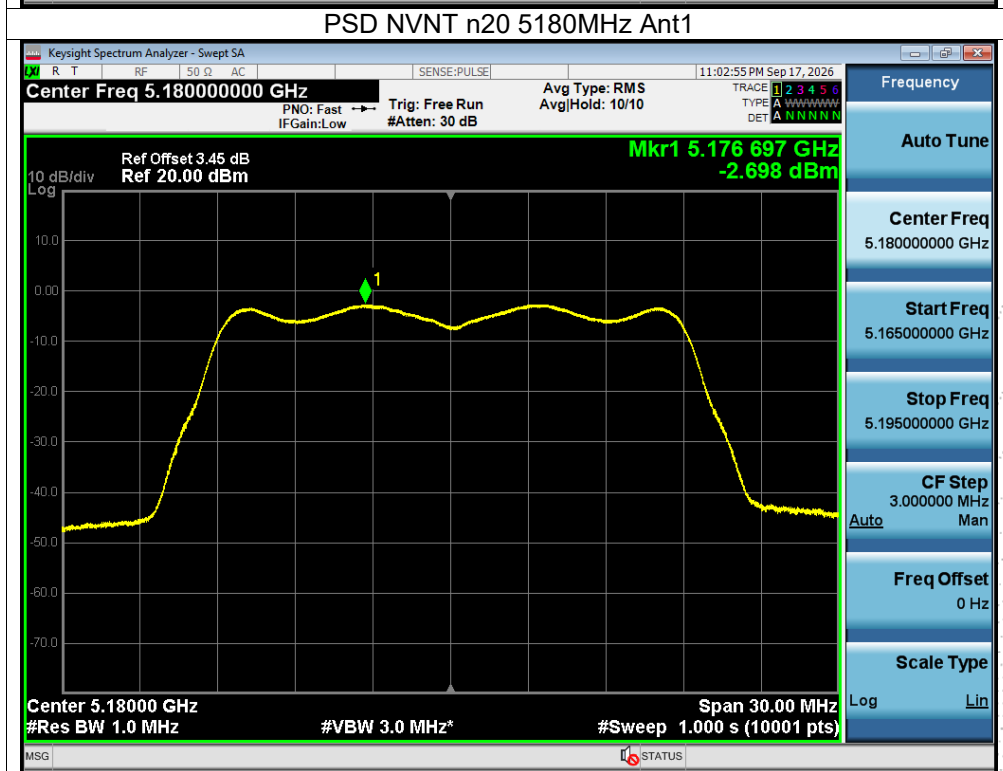
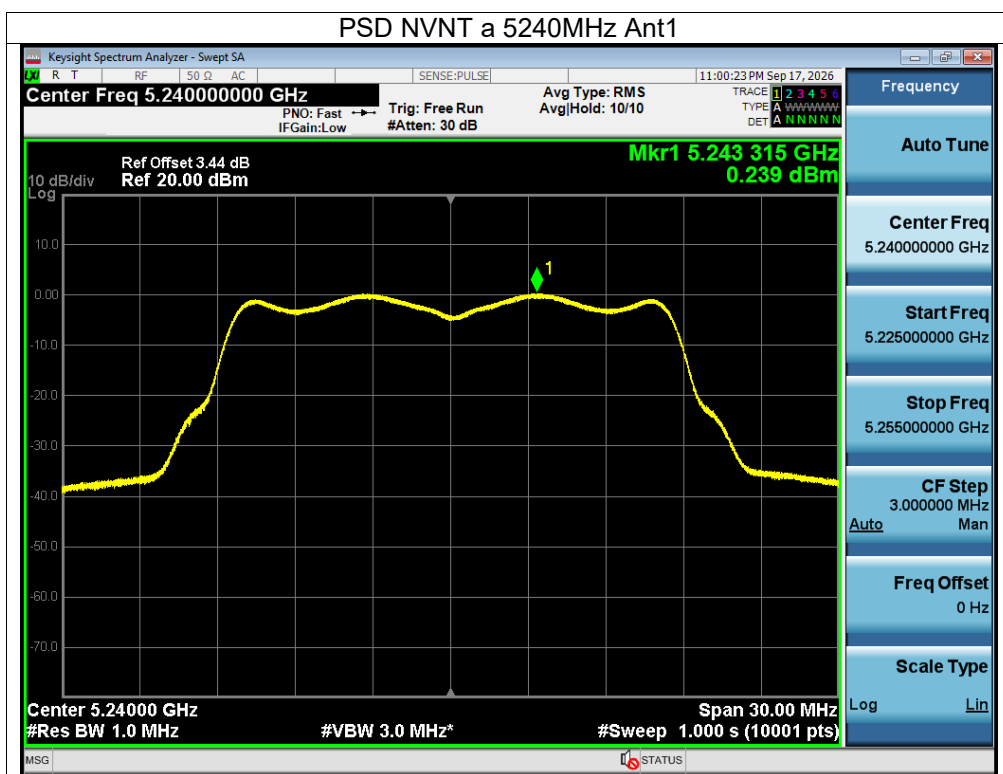
Test Graphs

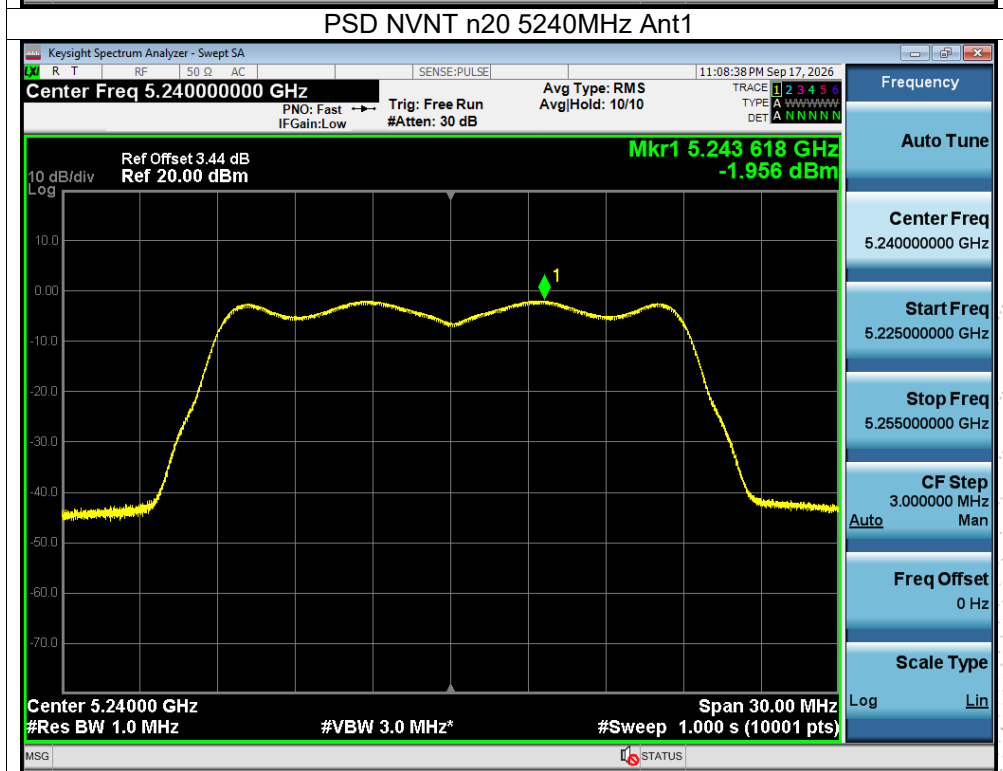
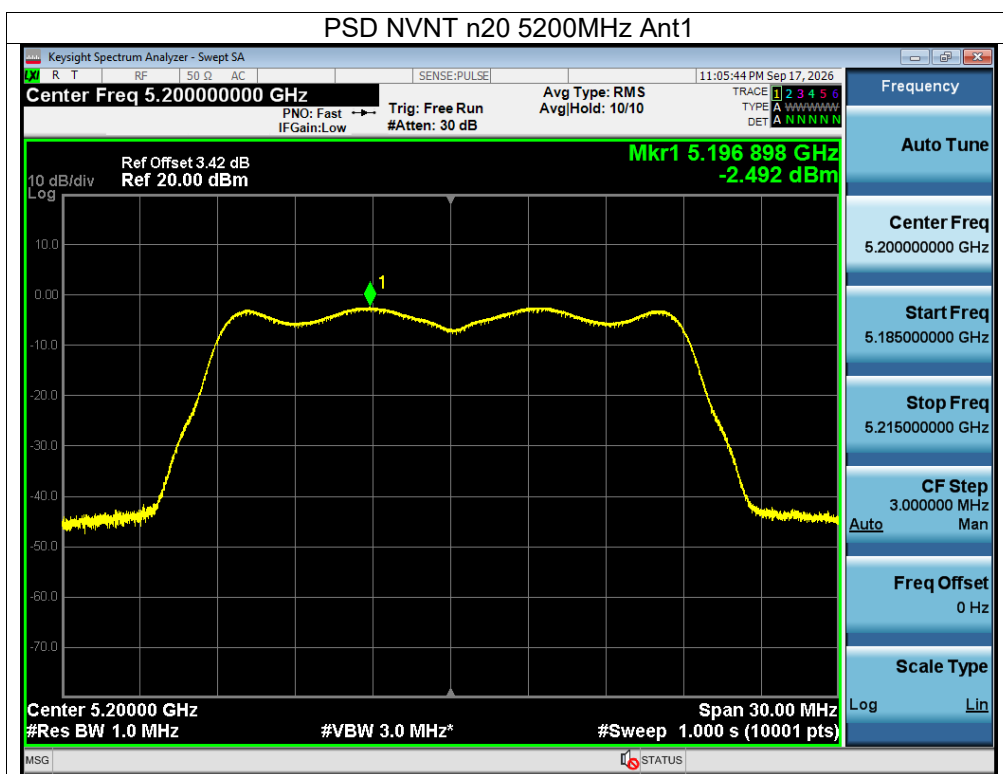
PSD NVNT a 5180MHz Ant1

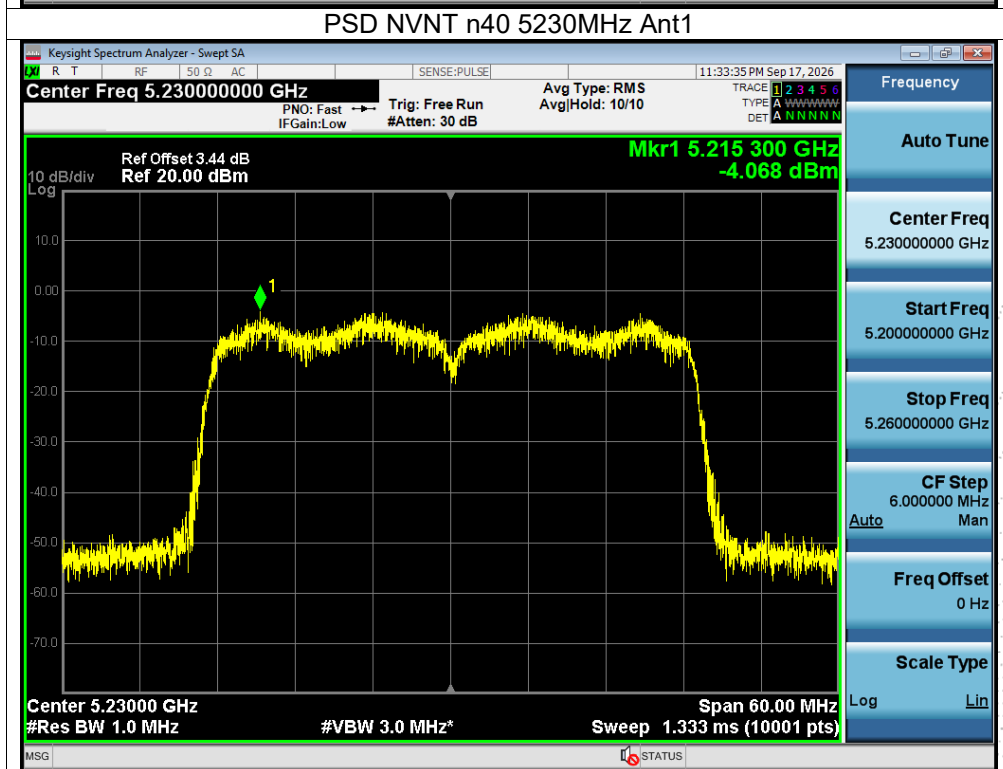
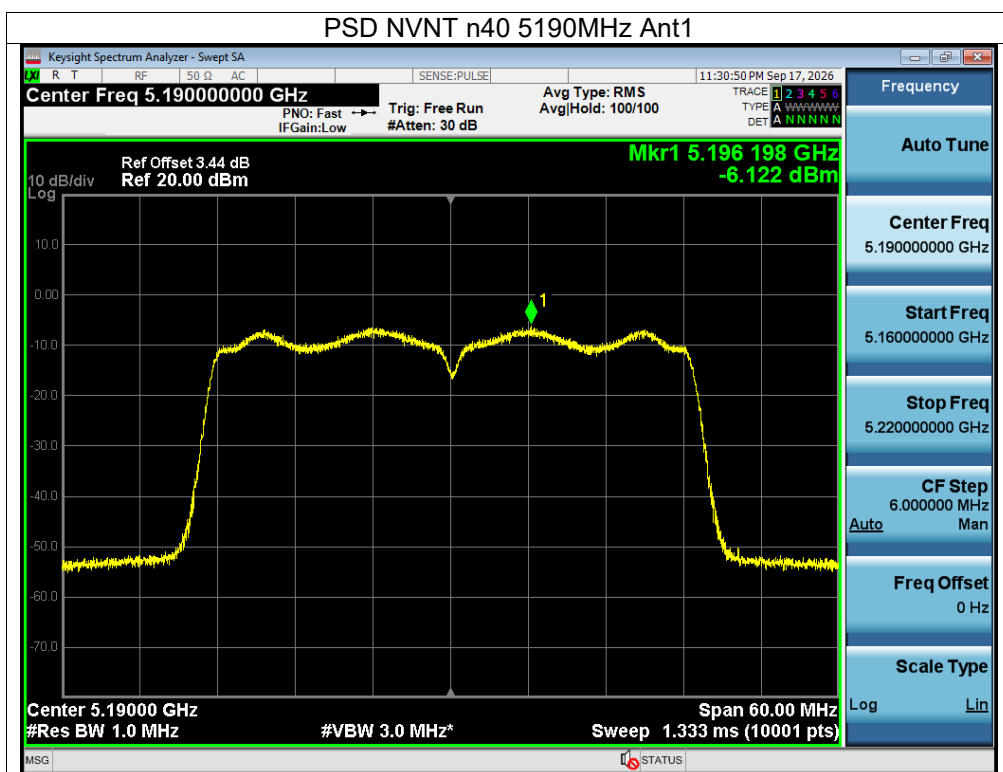


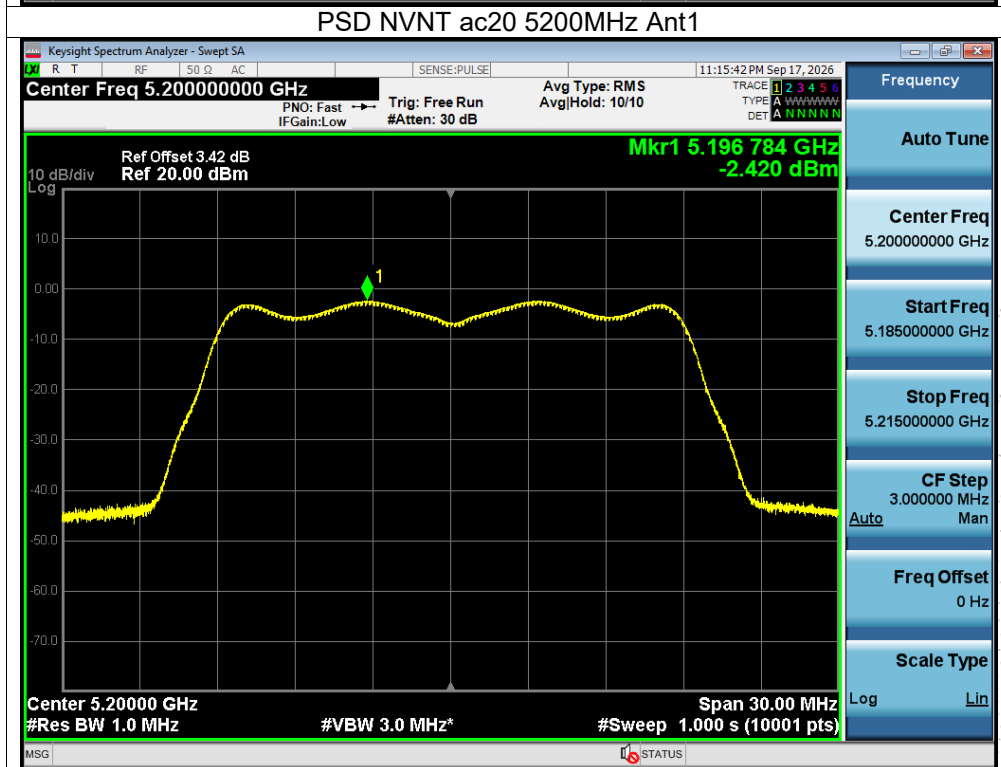
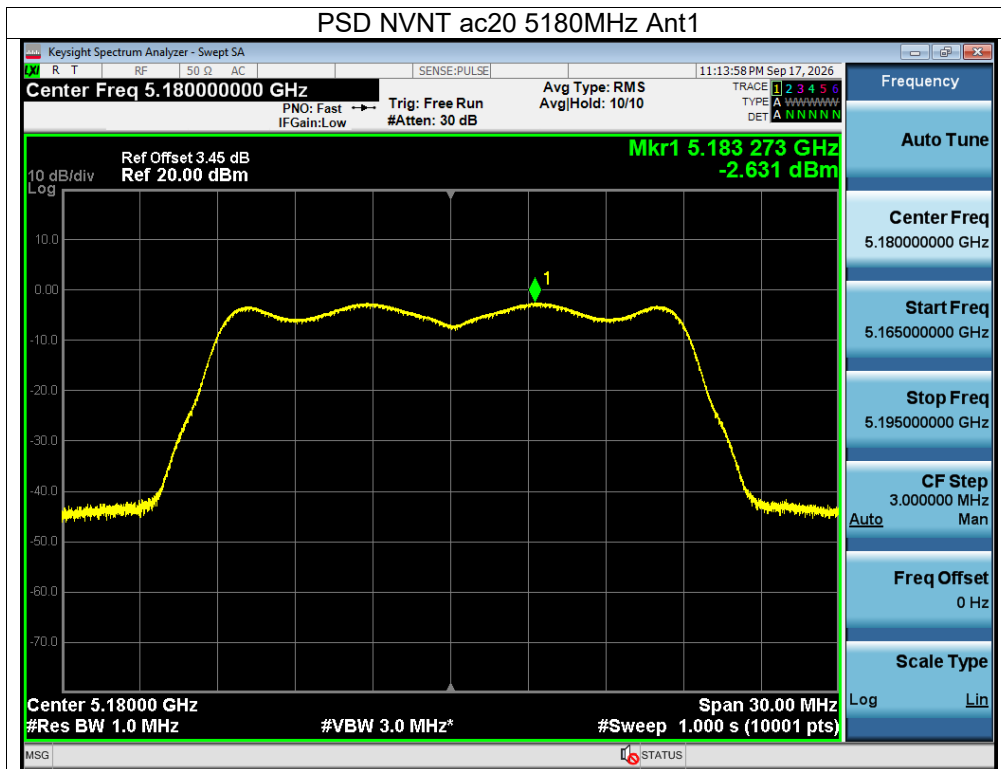
PSD NVNT a 5200MHz Ant1

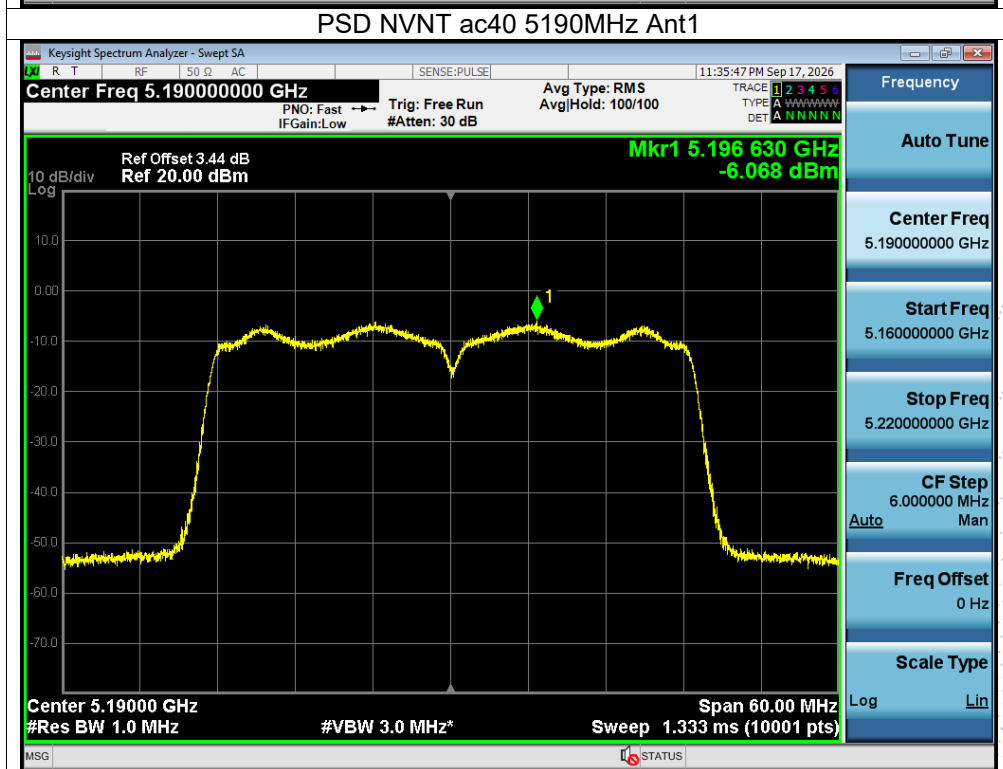
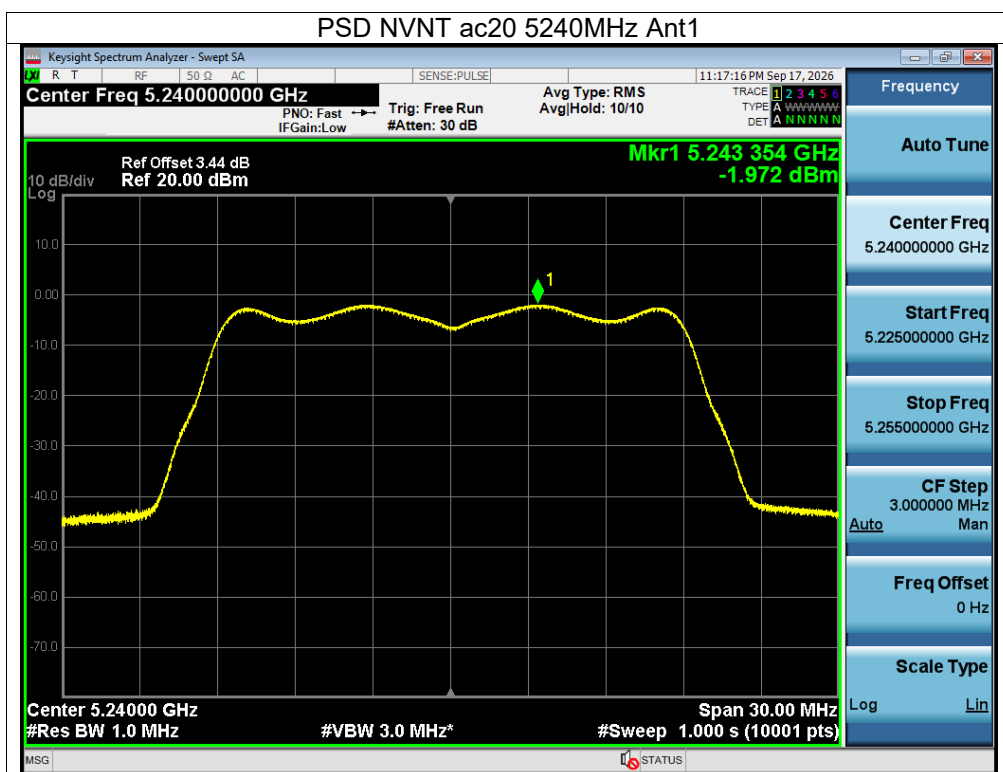


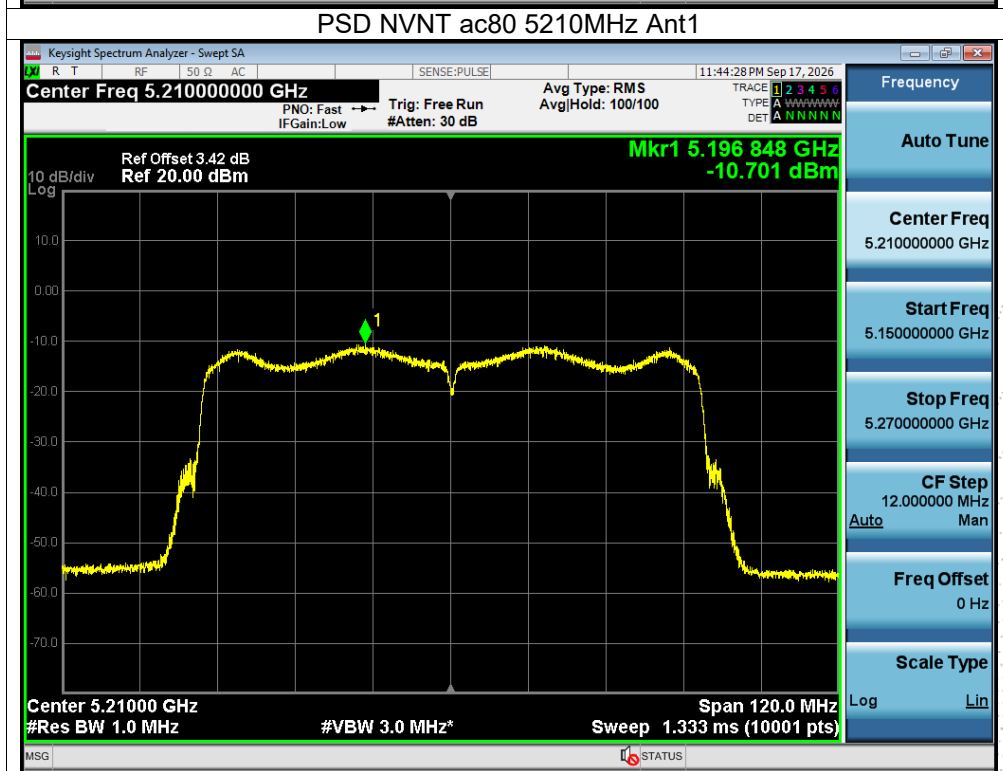
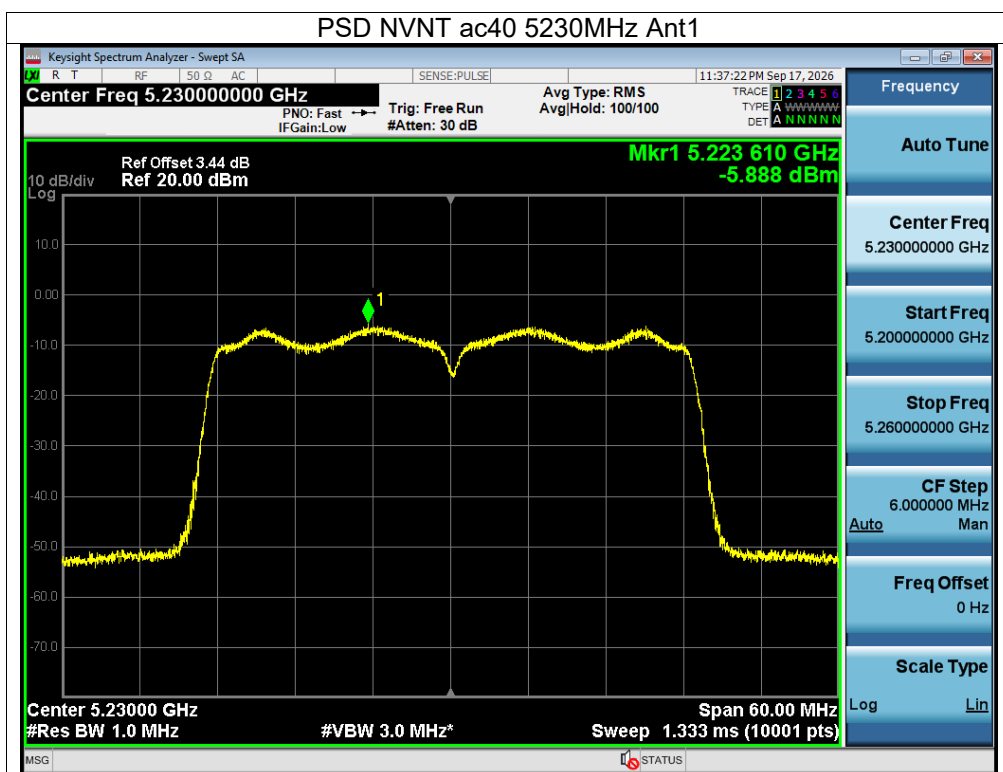


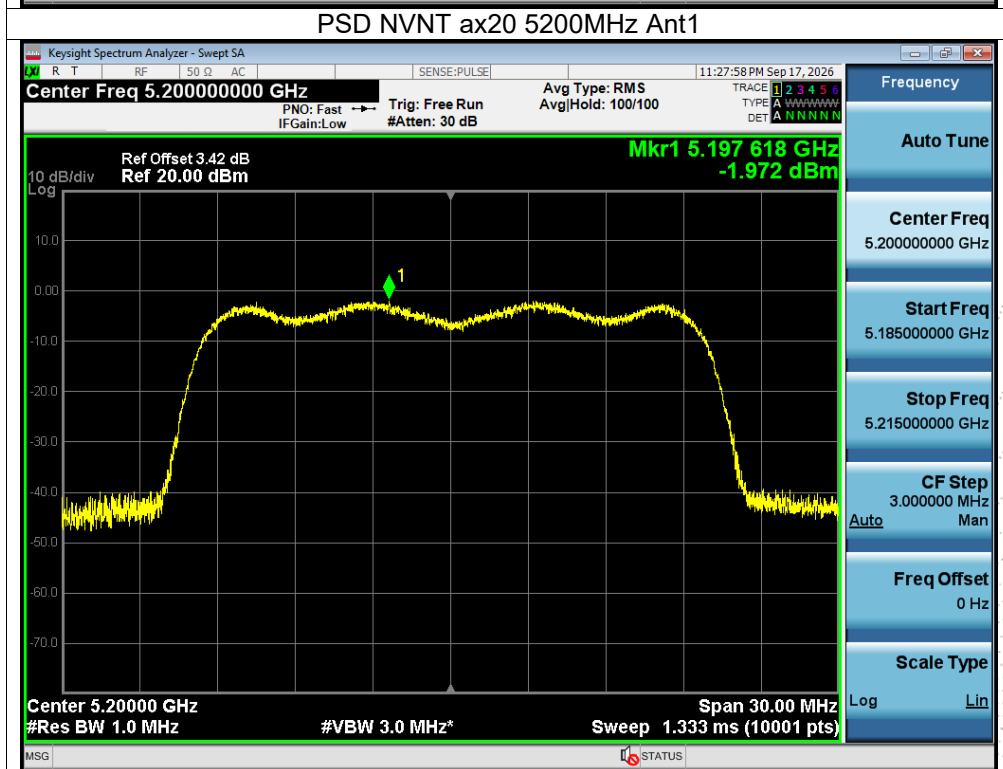
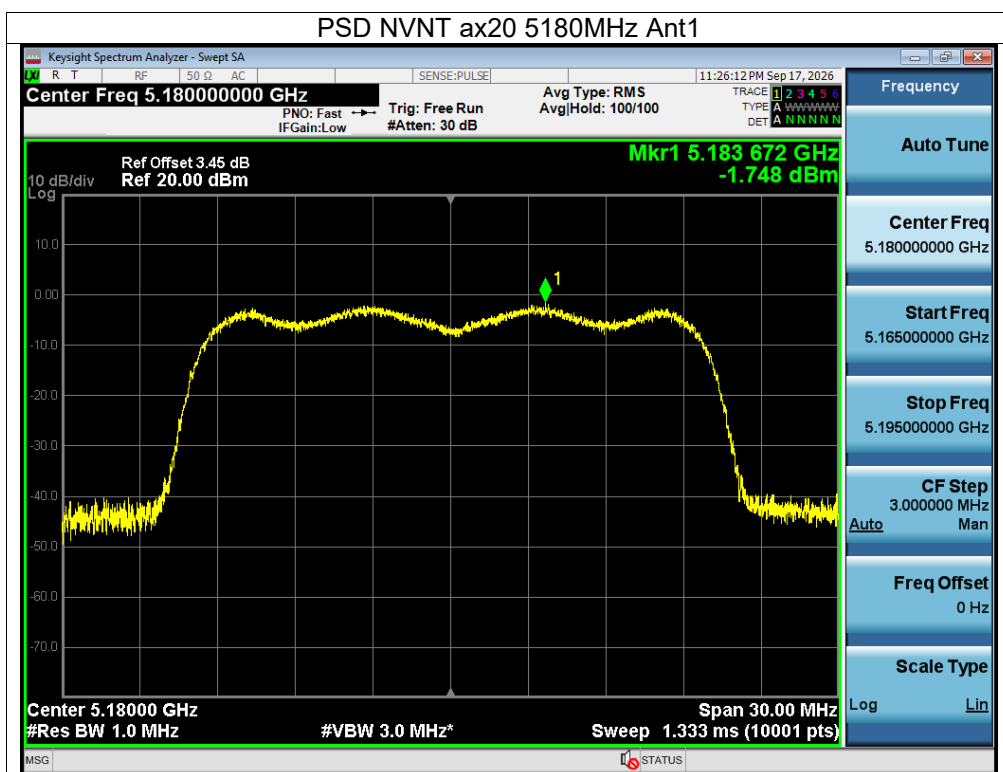


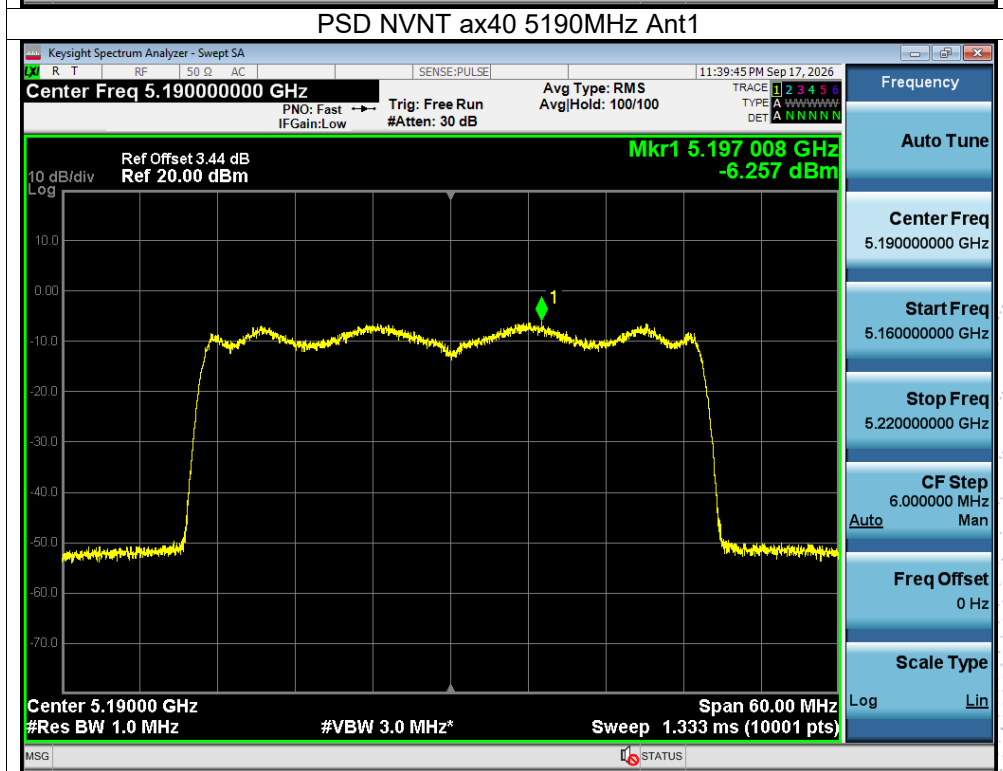
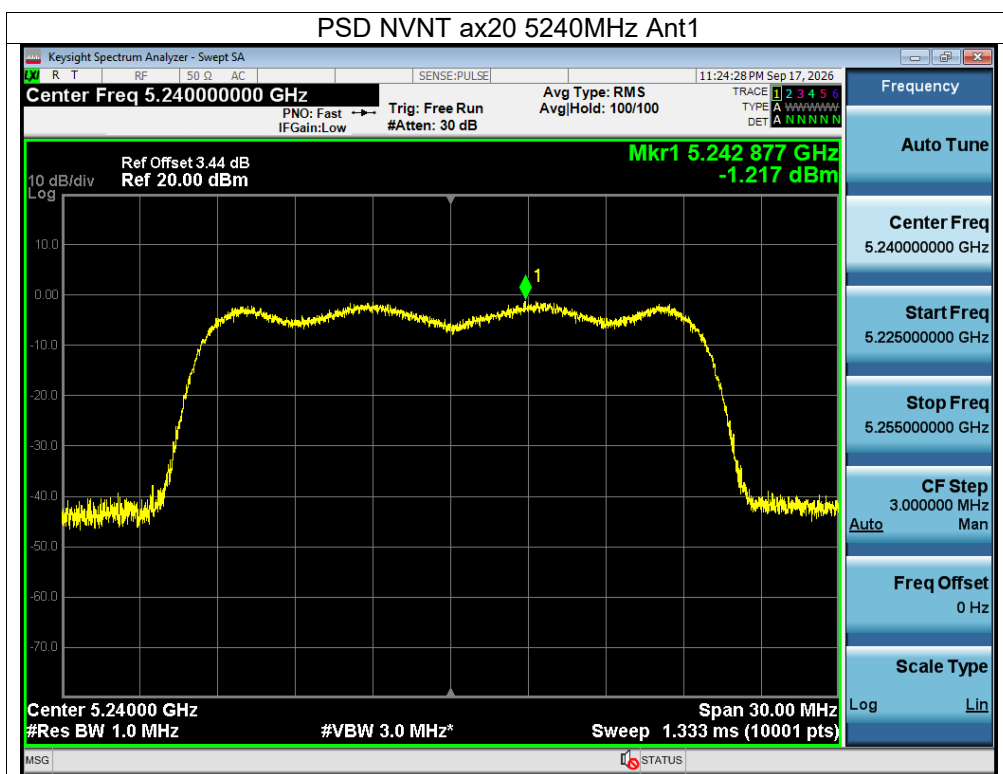


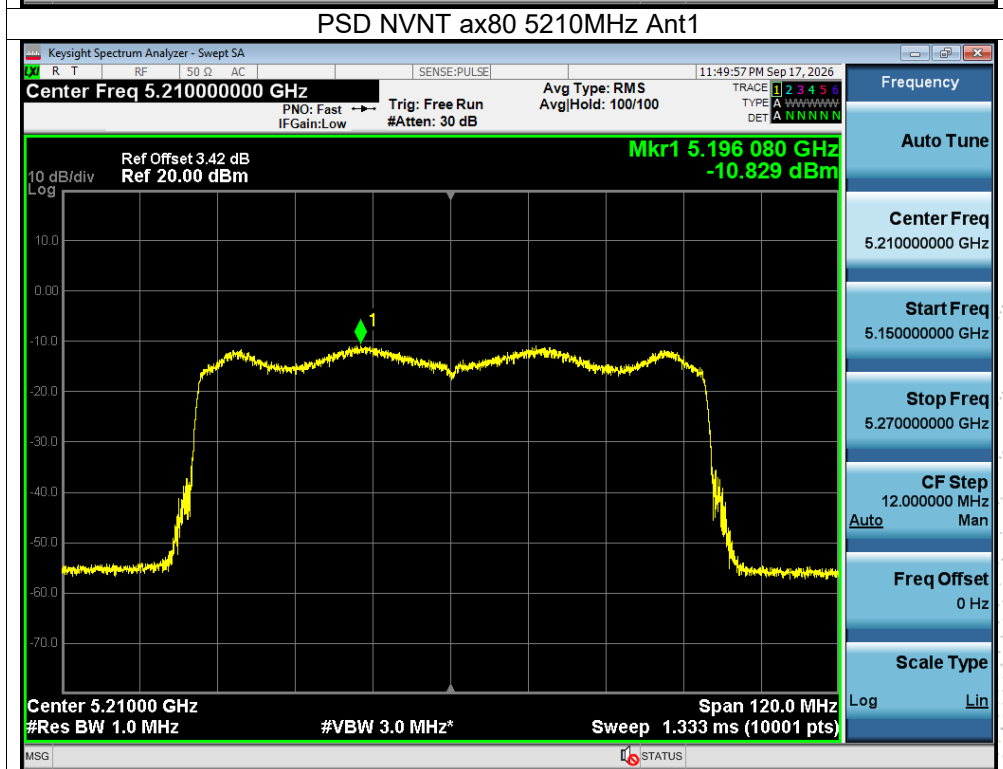
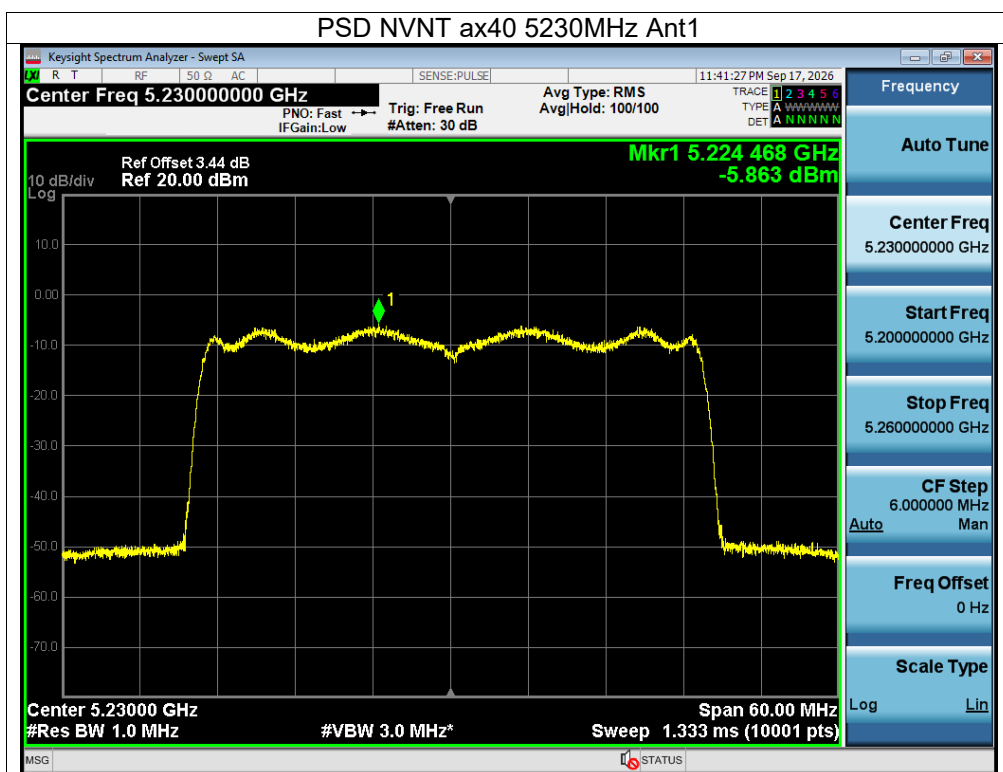












|              |                |                    |        |
|--------------|----------------|--------------------|--------|
| Temperature: | 26 °C          | Relative Humidity: | 54%RH  |
| Pressure:    | 101KPa         | Test Voltage:      | DC 12V |
| Test Mode:   | (5745-5825MHz) |                    |        |

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5745            | -4.69               | 0.27             | -4.42             | 30          | Pass    |
| NVNT      | a    | 5785            | -3.61               | 0.27             | -3.34             | 30          | Pass    |
| NVNT      | a    | 5825            | -3.43               | 0.3              | -3.13             | 30          | Pass    |
| NVNT      | n20  | 5745            | -6.67               | 0.08             | -6.59             | 30          | Pass    |
| NVNT      | n20  | 5785            | -5.66               | 0.08             | -5.58             | 30          | Pass    |
| NVNT      | n20  | 5825            | -5.47               | 0.08             | -5.39             | 30          | Pass    |
| NVNT      | n40  | 5755            | -10.4               | 0.09             | -10.31            | 30          | Pass    |
| NVNT      | n40  | 5795            | -9.51               | 0.09             | -9.42             | 30          | Pass    |
| NVNT      | ac20 | 5745            | -6.12               | 0.08             | -6.04             | 30          | Pass    |
| NVNT      | ac20 | 5785            | -5.61               | 0.08             | -5.53             | 30          | Pass    |
| NVNT      | ac20 | 5825            | -4.86               | 0.08             | -4.78             | 30          | Pass    |
| NVNT      | ac40 | 5755            | -9.08               | 0.09             | -8.99             | 30          | Pass    |
| NVNT      | ac40 | 5795            | -9.62               | 0.09             | -9.53             | 30          | Pass    |
| NVNT      | ac80 | 5775            | -14.22              | 0.08             | -14.14            | 30          | Pass    |
| NVNT      | ax20 | 5745            | -6.28               | 0.11             | -6.17             | 30          | Pass    |
| NVNT      | ax20 | 5785            | -5.26               | 0.1              | -5.16             | 30          | Pass    |
| NVNT      | ax20 | 5825            | -4.79               | 0.11             | -4.68             | 30          | Pass    |
| NVNT      | ax40 | 5755            | -10.19              | 0.11             | -10.08            | 30          | Pass    |
| NVNT      | ax40 | 5795            | -10.93              | 0.11             | -10.82            | 30          | Pass    |
| NVNT      | ax80 | 5775            | -14.26              | 0.1              | -14.16            | 30          | Pass    |

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